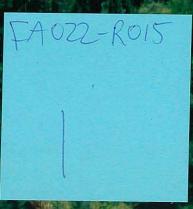




Anvil Range Mine Complex

2004 to 2008 Water Licence Renewal - Environmental Assessment Report

Volume 2 of 3 - Description of the Existing Environment Anvil Range Mining Corporation (Interim Receivership) April 2003



Volume II

Description of the Existing Environment

Anvil Range Mining Corporation (Interim Receivership) 2004 to 2008 Water Licence Renewal Environmental Assessment Report

Submitted by: Deloitte & Touche Inc. In its capacity as Interim Receiver for Anvil Range Mining Corporation

in association with: Gartner Lee Limited

Reference: GLL 22-307 date: April 2003

distribution:

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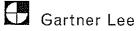




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1 INTRODUCTION

1.1 INTRODUCTION TO THE ENVIRONMENTAL ASSESSMENT REPORT

The Anvil Range Mine Complex, located in Faro, Yukon, operated from 1969 to 1998 inclusive of several temporary closures. Mining and milling operations permanently ceased in early 1998 shortly after the owner, Anvil Range Mining Corporation ("Anvil Range"), filed for creditor protection under the Companies' Creditor Arrangement Act. Deloitte & Touche Inc. was appointed Interim Receiver ("Interim Receiver") of Anvil Range pursuant to an order ("Interim Receivership Order") of the Ontario Court (General Division) ("the Court") (now the Superior Court of Justice) in April 1998.

The site is managed by the Court Appointed Interim Receiver, Deloitte & Touche Inc.

Steps to renew a

licence include CEAA and licence application The Interim Receiver has overseen the management of the property under the terms of the water licences in addition to the Interim Receiver's mandate to receive, preserve, protect and realize upon Anvil Range's assets. The Interim Receiver has worked with the Department of Indian Affairs and Northern Development ("DIAND"), the Yukon Territorial Government ("YTG"), the Town of Faro, the Ross River Dena Council, and other stakeholders to manage environmental programs that are required to protect the receiving environment.

The mine complex is currently regulated under two water licences, which specify the terms and conditions under which the licence holder (i.e. Anvil Range) can discharge water into the natural environment. The Faro mine site operates under licence QZ95-003 (formerly IN89-001) and the Vangorda Plateau mine site operates under licence IN89-002. The water licences were granted by the Yukon Territory Water Board under the Yukon Waters Act. Both licences will expire December 31, 2003.

The Interim Receivership Order grants the Interim Receiver the authority to "apply for any permits, licences, approvals or permissions on behalf of [Anvil Range] as may be required by any government or regulatory authority". In order to ensure that regulatory licencing that allows for the continued performance of necessary environmental protection activities, remains in place, the Interim Receiver filed documents, in May 2002, to initiate the process for application to the Yukon Territory Water Board for a single integrated licence for the mine complex for the period from January 1, 2004 to December 31, 2008 (5 years).

Two overall steps are involved in the renewal and integration of the water licences:

1. A review process under the Canadian Environmental Assessment Act ("CEAA") which is required, in part, due to the disbursement of federal funds for the maintenance of this property. The review is focussed on the activities described in an Environmental Assessment Report ("EAR") that is submitted by the proponent following guidelines provided by DIAND; and



The CEAA process was initiated with a Project Description submitted in May 2002

This Environmental Assessment Report (EAR) is presented in three volumes plus a standalone EAR summary document and a companion document being the new mechanism for development of a closure plan 2. An application to the Yukon Territory Water Board for a water licence renewal.

To initiate the CEAA process, the Interim Receiver submitted a Project Description in May 2002 that described the proposed activities for the proposed licence period. A Project Description Supplement was submitted in September 2002 in response to questions raised regarding the Project Description. At that time, preparation of a Final Closure and Reclamation Plan ("FCRP") for the mine complex was included into the Interim Receiver's scope of work.

Guidelines for preparation of the EAR were issued by DIAND in March 2003. The final scope of the project, as described in the Guidelines focussed solely on care and maintenance activities and excluded the development of a Final Closure Plan. This change was based on the announcement by DIAND in January 2003 that the development of a FCRP would be undertaken by the closure Project Team that would be formed for this specific purpose.

This EAR has been prepared to comply with the Guidelines provided by DIAND and to provide the information necessary to enable a screening decision per the CEAA.

The EAR is a three volume document:

- 1. Volume I provides a description of the existing facilities, a description of the proposed activities and a description of the adpative management program.
- 2. Volume II describes the current environmental conditions at the mine site.
- 3. Volume III describes the impacts of the proposed activities on the existing conditions at the mine site.

A general reference between the information requested in the Guidelines and location of that information in the EAR is provided in the table below. A detailed conformity table is appended to each volume (Appendix A).

Information Reference Locations

Guideline Reference	EAR Reference
2.0 Executive Summary	Volume I
2.1 Project Summary	Volume I
2.2 Project Description	Volume I
2.3 Environmental Setting	Volume II
3.0 Environmental Effect Assessment	Volume III

The three-volume EAR is summarized in a standalone summary document, which provides a summary of the information and conclusions of the EAR.

While closure planning is not a specific, integral part of the Environmental Assessment Report, a document titled Anvil Range Mine Complex: Closure Planning Project Management, designed to address the planning process for the

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final closure of the site, will be submitted by the closure Project Team at a later date.

1.2 INTRODUCTION TO VOLUME II – DESCRIPTION OF THE EXISTING ENVIRONMENT

1.2.1 OVERVIEW

The context that overarches both the selection of the proposed care and maintenance activities and the development of the environmental assessment (and the assessment framework) is that the Anvil Range property exists as a property resulting from former mining and milling activities. This property has recognized environmental liabilities. The proposed care and maintenance activities and the timeframe of the proposed licence were selected to allow the property to be maintained while allowing sufficient time for a FCRP to be developed. As such, the assessment framework described below was developed on the basis that the proponent of the proposed project (the Interim Receiver) is not proposing to start a new mine in the next five years, nor to close the property in the next licence term. As mentioned in the introduction to the EAR, closure planning is the responsibility of the government and will be addressed in a subsequent document entitled "Anvil Range Mine Complex: Closure Planning Project Management".

The premises described above drove the development of the following environmental assessment framework:

- The **spatial boundaries** of the assessment follow standard environmental assessment methodology. The effects assessment is based on two spatial scales: a local scale, the local study area; and at a regional scale, the regional study area.
- The temporal boundary for the project, scoped as a care and maintenance project in the March 11 2002 Guidelines from DIAND Environment Directorate, is defined as the five-year timeframe from 2004 to 2008. The effects assessment for the project is based on this timeframe and compares the project to conditions existing during the 1998 to 2002 care and maintenance timeframe. This point of comparison was chosen because a comparison to pre-mining condition would be a hypothetical one and would not reflect the reality that this site currently exists and that care and maintenance activities are on-going. The assessment of care and maintenance effects on the environment is therefore aimed at determining whether the proposed care and maintenance activities are adequate for the next five years and can maintain the property in a state comparable to that achieved over the 1998-2002 timeframe, where the site monitoring information demonstrated that regulatory limits were consistently achieved (as per the water licence).



The implication of the chosen environmental assessment framework is that effects being evaluated are relative rather than absolute in nature. As such, the proposed care and maintenance activities should, by definition, result in a neutral impact on the environment in comparison to 1998-2002.

The information presented in Volume II of the EAR (Description of Existing Environment) is primarily intended to support the determination of environmental effects according to the framework described above. These effects are presented in Volume III (Environmental Effects Assessment).

In addition, the information presented in Volume II was designed to support additional objectives. It is the understanding of the Interim Receiver that the Responsible Authorities, as well as other interested parties, may review the information available around pre-mining, historical and existing conditions with the intent of understanding the impacts of the property itself on the environment in comparison to the pre-mining conditions. It is the understanding of the Interim Receiver that the driver behind this broadened review focus is to underscore the need for closure planning and implementation, by referencing closure planning and implementation as required additional mitigation for this project. As mentioned above, this additional mitigation (closure planning) is the responsibility of the closure Project Team.

As such, the information presented in Volume II was researched and presented with the following objectives in mind:

- 1. respect the requirements of the March 11, 2003 Guidelines issued by the DIAND Environment Directorate.
- 2. support the assessment of effects related to the proposed care and maintenance activities for 2004-2008 in comparison to those occurring the 1998-2002 time frame.
- 3. support the additional review objectives that reviewers of this document may have (as described above).

The information, as it is available, that may be needed to support the third objective is included in both Volume II of the EAR, as well as in Volume II of the original Project Description filed with the then DIAND Environment Directorate in May 2002. This information includes data about pre-mining, historical and existing conditions, as well as site-characterization as it is currently understood. The bulk of the information that could be required for this type of review, if undertaken by the reviewers, is found in Volume II of the original Project Description (May 2002). The present Volume II of the Environmental Assessment Report, as mentioned above, is primarily intended to support the assessment of effects relating to care and maintenance activities in relation to 1998-2002. However, this volume also provides additional historical or site characterization information that would have been either researched or collected in the summer of 2002 that was not included in Volume II of the original Project

The May 2002 Baseline report may be taken as a general reference for the information presented in this report

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Description (May 2002). A "road map" to this information is described in the next section.

1.2.2 INFLUENCE OF PAST MINING ACTIVITIES ON THE DESCRIPTION OF THE EXISTING ENVIRONMENT

The amassed environmental information, as described both in this volume and in the 2002 Baseline Report, clearly indicates that past (i.e. pre-1998) mining activities have had a demonstrable impact on the aquatic and terrestrial receiving environments. Furthermore, in some cases, the environmental information demonstrates that some of the mine facilities that were operated or created prior to 1998 (such as the Rose Creek Tailings Facility, for example) continue to have an ongoing impact on the receiving environments.

These historical (i.e. pre-1998) environmental impacts can be summarized as:

Air Quality: There is no scientific baseline data on historical air quality but traditional knowledge, experience at similar projects and indirect evidence from other studies indicate that effects would have occurred due to mine operating activities. (Volume II Section 2.1.3)

Streamflow in the Receiving Environment: Construction and operation of mine facilities, diversion and interception of surface water and discharge of water from treatment systems substantially altered streamflow in the receiving environment. (*Volume II Section 2.5.2; 2002 Baseline Report Section 4.2.4*)

Surface Water Quality in the Receiving Environment: Runoff from rock dumps, the plantsite, roads and other developed areas, groundwater discharge to surface in some areas, discharge of (generally compliant) water from water treatment systems and spills and other unforeseen events have resulted in degraded water quality in Rose and Vangorda Creeks as compared to upstream reference locations and general guidelines. (Volume II Section 2.5.4; 2002 Baseline Report Sections 4.2.6 and 4.2.8) A preliminary contaminant loading model has been developed that identifies contaminant source areas. (Volume II Section 3.3; 2002 Baseline Report Appendix A)

Groundwater Flow in the Receiving Environment: Interception of subsurface flow in pits and ditches, changes to groundwater recharge and discharge areas (either increasing or decreasing rates) and active pumping to surface for water supply altered groundwater flow patterns substantially within the immediate mine area (*Volume II Section 2.5.3; 2002 Baseline Report Section 4.2.5*)

Groundwater Quality in the Receiving Environment: Seepage to ground from mine facilities such as rock dumps and tailings impoundments has had a negative impact on groundwater quality in the immediate mine area. (Volume II Section 2.5.5; 2002 Baseline Report Sections 4.2.7 and 4.2.9) Comprehensive investigations into groundwater quality in the Rose Creek Valley aquifer have been carried out in 2001 and 2002. (Volume II Sections 2.5.5 and 3.4; 2002 Baseline Report Section 4.2.7)

Fish Habitat Integrity: Construction of mine facilities such as the Fresh Water Supply Dam, the Rose Creek Diversion Canal and the North Fork Rock Drain substantially altered the fish habitat in Rose Creek. Fish habitat in Vangorda



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Creek has not been similarly altered because the habitat is restricted to the lower reaches downstream of mine facilities. (Volume II Section 2.5.2; 2002 Baseline Report Section 4.2.4)

Fish Population Health: There is no scientific baseline data on historical fish health or quality, however traditional knowledge, experience at similar projects and indirect evidence from other studies indicate that effects would have occurred due to mine operating activities. (*Volume II Section 2.1.3*)

Wildlife Habitat Integrity: Construction of mine facilities altered or removed wildlife habitat from use by occupying the land. Further, While there is (Volume II Section 2.7.4; 2002 Baseline Report Section 4.3)

Wildlife Population Health: There is no scientific baseline data on historical wildlife health, however traditional knowledge, experience at similar projects and indirect evidence from other studies indicate that effects may have occurred due to mine operating activities. Nonetheless, the information indicates that the local population of Fannin Sheep remained healthy throughout the mine operating period. (*Volume II Sections 2.7.4 and 2.9; 2002 Baseline Report Section 4.3*)

The proposed care and maintenance activities, as described in Volume 1 of this report, are aimed at mitigating in a short-term context the impacts related to past mining activities. In addition, the proposed care and maintenance activities includes 1) monitoring of effects, and 2) an Adaptive Management Plan that provides a response framework that will be implemented if issue-specific triggers are activated.

Future mitigation of environmental effects related to past mining activities will be the focus of the FCRP that is to be developed by the closure Project Team.

1.2.3 INTEGRATION OF TRADITIONAL KNOWLEDGE

1.2.3.1 Overview

The CEAA and the project specific Information Guidelines require that First Nations traditional knowledge is to be integrated into the EA. The existing body of traditional knowledge related to the Faro mine complex was supplemented, for this EA report, by additional knowledge gathering interviews. The pre-existing body of information consists of two sets of interviews, described below, as well as previously conducted studies described in Volume II, Section 2.9.2.1. Per Sections 1.2.3.1 and 1.2.3.2. below, this information is included in Volume II, Description of the Existing Environment, and in Volume III, Environmental Effects Assessment. In addition, consultation was undertaken during the environmental assessment process regarding the proposed care and maintenance activities. The consultation activities, the identified issues and their integration into the proposed project are described in Volume 3, Section 3 (First Nations and Public Consultation).

A series of interviews were conducted by anthropologist Sheila Greer with selected elders of the Ross River Dena community in December of 1999 to

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confirm if the findings of the Weinstein study were still considered valid and to record any additional information regarding land use (Greer 2000).

During the week of March 24, 2003, further interviews were conducted with Ross River Dena members to document current traditional use patterns in the study area, as well as traditional knowledge related to environmental concerns that might be related to the mine. These interview sessions also sought permission to use or share with a wider audience, through the EA process, earlier documented use of and traditional knowledge regarding the Faro mine area, particularly that recorded by Greer in 1999.

The 2003 interviews were conducted by Doris Dreyer, in her capacity as a researcher for the RRDC, and Testloa George Smith, RRDC member and researcher. Anthropologist Sheila Greer assisted with the initial three interview sessions, with Ms. Dreyer and Mr. Smith carrying out the balance of the interviews. An Information Sharing Protocol outlining the terms by which any traditional knowledge data assembled by the project would be shared was put in place in order for the interview work to proceed. As well, both Ms. Greer and Ms. Dreyer signed letters of confidentiality acknowledging that the knowledge and information they were collecting was privileged and the property of the Ross River Dena Council.

The traditional knowledge available for consideration in this assessment includes (1) a report titled Ross River Dena Traditional Use Study for the Faro Mine Water License Application (2004 to 2008) prepared by Doris Dreyer and Testloa George Smith (excluding transcripts or interview notes); (2) one of the 1999 interviews conducted by Ms. Greer, for which permission to share the knowledge released was granted on March 26, 2003; and (3) that which Ms. Greer heard during the interviews she participated in on March 25^{th} & 26^{th} . In these sessions the interview participants indicated their willingness to have the information they were providing (and had provided in the case of one of the 1999 interview) shared with a wider audience. Note that, as per the terms of the Information Sharing Protocol, the individuals who provided the information are not identified, and that in respect of the protocol, Ms. Greer did not take notes during these sessions.

1.2.3.2 Description of the Existing Environment

Traditional knowledge has been incorporated into the Description of the Existing Environment described in Volume 2 of this report, as it became available.

The discussion of wildlife communities in the study area resulting from the 2003 interviews provided information regarding wildlife health and movements related to activities at the mine site.

Additionally, the 2002 preliminary study of effects in the terrestrial environment was motivated, in part, by issues raised by the community of Ross River regarding the potential effects of wind blown contaminants on wildlife and



vegetation. The follow up studies that are proposed for 2003 to 2005 (described in Section 10, Volume I) are a direct continuation of this collection of scientific data that is required to produce a mitigation plan (as proposed to be completed by the end of 2005).

1.2.3.3 Effects Assessment

The accumulated traditional knowledge was considered along with scientific data in the selection of VECC's and indicators, in the assessment of effects and significance and in the proposed follow up studies. This is described in Volume 3, Environmental Effects Assessment.

1.2.4 LOCAL AND REGIONAL STUDY AREAS

The LSA extends from the background water quality sites upstream of each mine to the first monitoring point downstream of where the effluent stream enters receiving waters

RSA's have been defined for the environmental and social components where an impact assessment is completed The local study area (LSA) is based on the physical and hydrologic footprint of both mine sites, including the Haul Road (Figure 2), as this is the area of immediate influence on the environment as a result of care and maintenance activities and the area of interest as per the water licences. The LSA extends from the site-specific background water quality sites upstream of each mine to the first monitoring point downstream of where the effluent stream specified in the existing water licence enters receiving waters.

The LSA includes Faro Creek and the North and South Forks of Rose Creek and extends downstream to Site X14, where effluent discharged from Sites X5 and X13 mixes with Rose Creek downstream of the Faro mine site (Figure 3). As well, the LSA extends from the background water quality site (V1) on Vangorda Creek upstream of the Vangorda mine site, to the main stem of Vangorda Creek downstream of the mine, just upstream of the confluence with the West Fork (Figure 3). All water from the major project activities reports to this site. This LSA will apply to all discipline components.

A regional study area ("RSA") is defined to incorporate data outside of the project footprint that may be important to the determination of direct effects on an environmental component and to allow for examination of potential cumulative effects where project effects extend beyond the study area boundary. The boundaries of a RSA are established based on geographical or social boundaries as well as the "zone of influence" beyond which the effects of a care and maintenance activity have diminished to an acceptable or trivial state. As the geographical or social boundary and the zone of influence will vary depending on the environmental component (e.g. wildlife, fish, water quality), RSAs have been defined for the environmental and social components where an impact assessment is completed (in Volume III), as outlined in Table 1. Each study area is discussed in more detail in the component section of Section 2.

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Component	Regional Study Area	Figure
Air quality	Bounded by the height of land surrounding the Rose and Vangorda watersheds (to capture both watersheds) plus water sampling sites in Anvil Creek at the mouth of Rose Creek	3
Water resources (hydrology, hydrogeology and water quality)	Bounded by the height of land surrounding the Rose and Vangorda watersheds (to capture both watersheds) plus water sampling sites in Anvil Creek at the mouth of Rose Creek (for the Faro site) and in Vangorda Creek at the confluence with the Pelly River (for the Vangorda Plateau site)	3
Aquatic resources (sediment quality, benthic invertebrates and fish	Bounded by the height of land surrounding the Rose and Vangorda watersheds (to capture both watersheds) plus water sampling sites in Anvil Creek at the mouth of Rose Creek (for the Faro site) and in Vangorda Creek at the confluence with the Pelly River (for the Vangorda Plateau site)	3
Terrestrial resources (soil, vegetation, wildlife)	Bounded by the Pelly River to the south, Rose Mountain to the west, Mount Aho to the north and Mount Mye and Sheep Mountain to the east	4
Socio-economics, traditional use and heritage resources	Bounded by the Pelly River to the south, Anvil Creek to the west and the height of land defining the Rose Creek watershed to the north and Blind Creek to the east	5

Table 1.Component Regional Study Areas

1.2.5 TEMPORAL BOUNDARIES

The current environmental and social conditions are those that have occurred during the care and maintenance phase (1998-2002) The environmental effects assessment is to be based on existing environmental and social conditions. As these conditions have changed substantially from premine development through mine operations to the existing care and maintenance status, the existing environmental and social conditions are considered to be those that have occurred during the care and maintenance phase between 1998 and 2002.

The description of the existing environment that is provided in this volume includes a discussion, where appropriate, of the historical (pre-1998) and existing (1998 to 2002) conditions for each environmental and social component. In this context, data collected prior to 1998 is considered historical and is presented in a summary format to provide context for a more detailed description of the existing conditions (1998 and 2002). In some cases such as hydrology and vegetation where the available information is descriptive rather than a series of discrete study points, changes to the natural environment that resulted from mine development and operation are discussed as a historical context and the available information is then discussed under existing conditions.



ENVIRONMENTAL AND SOCIAL SETTING 2

2.1 METEOROLOGY

2.1.1 METEOROLOGICAL DATA SOURCES

Meteorological data that is applicable for the local study area of the Anvil Range The data was collected Mine Complex has been collected since 1967. The station locations, information from the Anvil Range station and the Rose collected at each one and the period of collection record is outlined below in Table 2.

Table 2. **Climate Stations**

Creek station.

Station ID	Location	Тетр	Precip	Snowpack	Wind	Lake Evaporation	Evapotrans -piration	From	То
Anvil	Faro Mine site	\checkmark						1967	1980
Rose Creek	Faro Mine site			\checkmark		<u> </u>		1975	1985
Faro Airport	Faro Airport		\checkmark					1978	2001
Faro Airport	Faro Airport				 ✓ 			1975	1985
Whitehorse Airport	Whitehorse Airport				~	~	~	not in ICAP	not in ICAP
Airport	Airport				~	\checkmark	~	ICAP	

Data for this meteorological section have been compiled from the following sources:

Meteorological data sources

- Environment Canada, Atmospheric Environment Service. 1982. Canadian Climate Normals, Temperature and Precipitation. 1951-1980, The North -Yukon Territory and Northwest Territory (From the Integrated Comprehensive Abandonment Plan (ICAP).
 - BGC Engineering Inc., 2002. 2001 Annual Inspection of Facilities at the Faro Mine Site. Report prepared for Deloitte & Touche Inc.
 - Andrew Pape-Salmon, P.Eng., MRM Sustainergy Consulting, Jean-Paul Pinard, P.Eng., M.Sc., Ph.D. Candidate. 2002. Report on Renewable Energy Opportunities for the Operations of the Interim Receivership of Anvil Range Mining Corporation.

2.1.2 METEOROLOGY DATA

2.1.2.1 Temperature

The Anvil (Environment Canada) climate station was located at an elevation of 1158 mASL at the mine site. The station is no longer operable but temperatures were recorded from 1967 to 1980 (RGC 1996). The mean monthly temperatures are shown in Figure 6, and listed in Table 3 below.



Parameter	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
Daily Max. Temp. (°C)	-15.1	-8.3	-5.3	2.2	9.3	16.0	17.5	15.2	9.6	1.6	-7.0	-12.6	1.9
Daily Min. Temp (°C)	-24.9	-18.8	-17.3	-8.7	-1.8	3.0	5.0	3.3	-0.9	-8.1	-16.7	-22.4	-9.0
Daily Temp. (°C)	-19.8	-13.9	-11.2	-3.2	4.0	9.9	11.5	9.5	4.6	-3.1	-11.6	-17.5	-3.4

Table 3. Mean Monthly Temperatures (°C) at Anvil Climate Station (1967-1980)

Mean and extreme temperatures The 1967 to 1980 temperature normals for the Anvil station show a mean annual temperature of -3.4° C. July is the warmest month, with a mean daily temperature of 11.5°C, and January is the coldest month, with a mean daily temperature of -19.8° C. Over the period of record, temperature extremes of 29.4 and -46.1° C have been measured.

2.1.2.2 Precipitation

Mean, maximum and minimum precipitation The mean annual precipitation at the Faro airport station is 304.7 mm, according to the 1978-2001 period of record (BGC, 2002). This total comprises roughly equal proportions of rainfall and snowfall as water equivalent. The mean monthly distribution of precipitation is plotted in Figure 7 and is listed in Table 4 below. The driest and wettest months are typically April and July, respectively, over the period of record. The greatest monthly precipitation measured over the period of record was 116.2 mm in August 2000.

Month	Mean (mm)
January	14.3
February	12.1
March	10.5
April	7.2
May	24.3
June	35.8
July	58.9
August	46.8
September	38.2
October	24.9
November	17.2
December	14.6
Annual Total	304.7

Table 4. Monthly Mean Precipitation (mm) at FaroAirport, Yukon (1978-2001)



2.1.2.3 Snowpack

Location, elevation, snow accumulation and density snow pack The Rose Creek snow course at the site was operated by DIAND from 1975 to 1985. The snow course was located near and at a similar elevation (1080 m) as the Rose Creek Tailings Facility. The accumulation of snow at this location typically begins in October, and the snow has generally melted by the end of April, although in 1985 it persisted into May. At maximum snowpack in March or April the density of the snowpack is about 200 kg/m³.

2.1.2.4 Wind

The prevailing wind direction is from the southeast. Using wind data measured at the Faro airport, and weather balloon data from the Whitehorse station, wind speeds at the Faro Mine Site and Vangorda Mine Site (at Mt Mye shelf and Grum Rock Dump) were estimated. Wind data from the Faro airport indicates that the prevailing wind direction is from the southeast, following the Tintina Trench. Table 5 and Figure 8 (RGC 1996) show the long-term monthly mean wind speed data collected at the Faro airport. The wind data was collected from an anemometer on a 10m tower near the airport terminal. The data is measured at each hour of the day, 365 days of the year. (dates not provided).

Month	Mean (m/s)	
January	1.4	
February	1.7	
March	2.2	
April	2.6	
May	2.7	
June	2.7	
July	2.6	
August	2.1	
September	2.1	
October	2.2	
November	1.7	
December	1.5	

Table 5. Long-term Monthly Mean of Wind Speed (m/s) at the Faro Airport

2.1.2.5 Lake Evaporation and Evapotranspiration

Evaporation was arbitrarily selected to represent conditions at the mine and evapotranspiration rates were adopted from the highest elevation station. Lake evaporation refers to evaporation from a free-water surface. The rate of lake evaporation was estimated from meteorological data using a computer program known as WREVAP which was developed by the National Hydrology Research Institute (Morton 1985). Since no trend in lake evaporation with elevation was evident, the calculated lake evaporation at the Whitehorse Airport was arbitrarily selected to represent conditions at the mine site. The average lake evaporation was determined to be 490 mm.



Evapotranspiration refers to evaporation from a land surface including transpiration from plants, and appears to decrease with increasing elevation. The rate of evapotranspiration was also estimated from meteorological data using a computer program known as WREVAP, developed by the National Hydrology Research Institute. As the best estimate, the calculated evapotranspiration values of 190 mm per annum, or 38% of lake evaporation, at the highest elevation station, Whitehorse Airport, were adopted for the mine site. Insufficient information is available, however, to extrapolate this trend to the mine site with more than a low degree of certainty.

2.1.3 AIR QUALITY

2.1.3.1 Historical Air Quality

All of the activities
associated with mining
and milling were
sources of air
emissionsThere is no historical monitoring data available to characterize either background
air quality or air quality during mining operations.Mining, milling and all of the associated activities were a source of air emissionsMining, milling and all of the associated activities were a source of air emissions
throughout the operating period from 1969 to 1998. In general these sources can
be characterized as follows:

Source	Characteristics
Mobile sources including mining machinery and transport vehicles	 Source of NOx, CO₂/CO and particulate emissions from internal combustion engines Fugitive dust emissions from site preparation and construction activities (overburden stripping, road and impoundment construction) Fugitive dust emissions from roadways during transport of ore and concentrate Fugitive dust associated with ore and concentrate handling and transport
Open pit and rock dumps	• Source of wind-blown particulate emissions with characteristics similar to waste minerals (parent rock)
Milling operations	 Fugitive dust emissions from ore crushing operations – characteristics similar to ore body Fugitive dust emissions from concentrate drying and handling operations – high Pb and Zn concentration Stationary sources of combustion gases (NOx, CO₂/CO and particulate) associated primarily with boilers
Tailings impoundments	Source of wind-blown particulate – characteristics generally similar to ore body and entriched in Pb and Zn relative to natural conditions

No data is available on the magnitude of atmospheric emission sources, or on ambient contamination levels inside mill buildings There were no licences for atmospheric emissions from the mine and there is no historical data available on the magnitude of these sources. Source controls were employed to minimize dust emissions from significant sources. For example, a baghouse was employed to control dust emissions from the ore crushing operation and a wet scrubber was used on the discharge from the concentrate dryer. Although these controls would have reduced emission levels, there is no performance data available and no record of stack surveys being conducted. The main stationary combustion source (mill boilers) were initially fired with coal and later converted to oil. Waste oil generated on the mine site was used to supplement fuel requirement and processed in the boilers. There were no emission controls employed on the boiler stacks.

Occupational health and safety sampling was conducted, generally inside mill buildings. However, there is no data available on ambient contaminant levels.

Changes in the source of emissions are generally associated with changes in mining activities Changes in the source of emissions would have occurred throughout the life of the mine. These would generally be associated with changes in mining activities and the excavation of the various pits over time. In addition, the location of tailings disposal also changed. For example, open pit mining shifted from the Faro open pit to the Grum and Vangorda open pits in 1992. The tailings disposal location was also changed at this time from the Rose Creek Tailings Facility to the Faro Main Pit. The Rose Creek Tailings Facility would likely become a more significant source of fugitive (wind-blown) emissions following the cessation of active tailings deposition in each of the three impoundments. In recent years, fugitive (wind-blown) emissions are visible primarily from the Intermediate Impoundment and this would likely have become more significant after the cessation of active tailings deposition in 1992.

2.1.3.2 Existing Air Quality

The contribution to ambient air quality from activities on the site post mine closure have not been assessed When active mining was terminated in 1998, operational atmospheric emission sources would have been eliminated. This would include all mill sources (crushing and concentrate production and boiler operation) and mine sources (ore removal). Activities on the site are currently restricted to care and maintenance of the tailings impoundments and transfer and treatment of water. These activities do not have the potential to generate significant atmospheric emissions. However, the open pits, rock dumps and tailings impoundments will continue to be a potential source of fugitive dust through wind erosion. No ambient air monitoring has been conducted during the 1998 to 2002 care and maintenance phase and the contribution of these sources to ambient air quality have not been assessed.

2.2 TERRAIN

2.2.1 PHYSIOGRAPHY

The Faro area physiography is divided into three areas: Tintina Trench, Swim Basin uplands areas, and the Anvil Range mountains The physiography of the Faro area can be broadly divided into three main areas (Bond 2001) and these are illustrated on Figure 9:

1. The broad, linear southeast-northwest trending Tintina Trench. The Trench is the dominant structural feature of the area and is occupied by the northward flowing Pelly River. The Pelly River floodplain has an elevation of approximately 600 mASL.

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- 2. The upland areas of the Swim Basin (not shown) and the Vangorda Plateau. The bulk of the mine facilities are located on the Plateau. The Plateau generally parallels the Tintina Trench and is drained by the Vangorda Creek watershed to the south and Rose Creek to the northwest. The Plateau ranges in elevation from 1,000 to 1,400 mASL. A ridge of hills and mountains divide the Plateau from the Tintina Trench, most significant of these is Sheep Mountain to the southeast and Faro Peak to the northwest.
- 3. The third physiographic region is the Anvil Range mountains. The Anvil Range is located to the northeast of the Vangorda Plateau and rises to a series of peaks over 2000 mASL. The Range is characterized by steep, U-shaped alpine valleys terminating in cirques, and shattered rock and felsenmeer above 1770 m. Major summits in the Anvil range include Mount Mye, east of the Grum and Vangorda open pits and Mount Aho, north of the Faro Main Pit.

2.2.2 SURFICIAL GEOLOGY

Most of the Faro area landforms are attributed to the McConnell glaciation

The surficial material mainly consists of bedrock, and associated colluvium, glacial till, and glaciofluvial outwash sands and gravels The landforms and surficial deposits of the Vangorda Plateau have been shaped and are attributable to the last ice age which is estimated to have existed in the Yukon between 35,000 and 10,000 years ago. The southern Yukon was covered by at least four Cordilleran (i.e. mountain) ice sheets. These glaciations, from oldest to the youngest, are named the Nansen, the Kalza, the Reid and the McConnell (Bond 2001). The landforms of the Faro area are for the most part attributed to the youngest of the Yukon glaciations, the McConnell.

Significant surficial material in the study area consists of bedrock and associated colluvium, glacial till, and glaciofluvial outwash sands and gravels (Figure 10). Glaciolacustarine, modern alluvial and organic deposits, are found sporadically but are not discussed in detail herein. The following discussion of surficial materials is derived from the *Quaternary geology and till geochemistry of the Anvil district, central Yukon Territory* (Bond 2001):

Bedrock – bedrock and/or frost shattered bedrock (felsenmeer) is frequently found at surface in the alpine areas of the Anvil Range. Elsewhere, mountain slopes are covered in thin veneer of colluvium (materials derived from slope movement processes) derived from the local bedrock. Glacial deposits are relatively absent above 1,500 m, although meltwater channels were identified as high as 1,700 m. Solifluction is common above the tree line.

Morainal Deposits (Till) – glacial till is poorly sorted deposits of clay, silt, sand, gravel and angular boulders which is deposited directly from glacial ice. A thick blanket of till is found covering the Vangorda Plateau. In some locations where pre-glacial valley existed, the till deposits can be over 100 m thick (e.g. Grum valley). Generally till deposits thin to a veneer (<1 m) along the valley walls and are generally absent above 1,500 m. Till also commonly underlies glaciofluvial deposits in areas of former meltwater drainage. The area surrounding the Grum and Vangorda Deposits is characterized by a thick till blanket overlying bedrock.



MEC Ltd. identified six major landforms: morainal; glaciofluvial; organic; alpine colluvial; steepland colluvial; and alluvial **Glaciofluvial Deposits** – during the retreat of the glaciers, melting water derived from the decaying ice transported and deposited sand and gravel in the valley bottoms and associated lateral meltwater channels. These deposits are typically stratified to crudely stratified deposits varying from sand with some silt to cobble gravels. These materials are found as significant valley fills as in the Rose Creek valley, as kame terraces at the mouth of alpine valleys or as glacial terraces and complexes associated with the Vangorda Creek valley and the Tintina Trench. Glaciofluvial deposits host the Rose Creek aquifer which underlies the Faro Mine tailings facility. The Faro townsite is located on a major glaciofluvial (and glaciolacustarine) terrace with a well developed stagnant ice (i.e. hummocky terrain) glacial fluvial complex to the northwest of the townsite. The valley bottom glaciofluvial deposits are frequently covered by silts, sands and gravel derived from contemporary stream.

2.3 GEOLOGY

2.3.1 REGIONAL GEOLOGY

The lower part of the Anvil District geological sequence is the most important with respect to the ore bodies and is represented by the Mt. Mye and Vangorda Formations

The Mt. Mye Formation is represented by schists and the Vangorda Formation is represented by calcareous phyllites. The geology of the Anvil District has been described in detail in RGC 1996. A regional geology map, repeated from RGC 1996, is provided in Figure 11.

The stratigraphy of the Anvil District consists of regionally metamorphosed sedimentary bedrock, ranging in age from late Precambrian to Permian (approximately 900 to 250 million years ago). The degree of metamorphism ranges from moderate (schist) to low (phyllite). The lower part of the sequence, Silurian aged and earlier, as represented primarily by the Mt. Mye and Vangorda Formations, is the most important with respect to the Anvil Range ore bodies. During the Cretaceous, the meta-sediments were intruded by the Anvil Batholith, a granitic pluton that varies in composition from granite to granodiorite to quartz monzonite. A higher degree of metamorphism is generally observed near the Anvil Batholith contact. The meta-sediment rocks dip northeast and southwest, away from the Batholith.

The Mt. Mye Formation is represented by schists, with the dominant rock type being grey, non-calcareous, weakly carbonaceous phyllite with lesser interlayered black carbonaceous phyllite and schists. Mafic meta-igneous rocks, now amphibolites, are present locally but are volumetrically minor. A white, calc-silicate and marble marker horizon occurs about 500 to 700 m below the top of the Mt. Mye Formation, which has a structural thickness of at least 2,000 m (the base is not exposed).

The Vangorda Formation is represented by light to medium grey to greenish-grey calcareous phyllites. At higher metamorphic grade (amphibolite facies), the calcareous phyllite is transformed to calc-silicate rocks. Major interbanded units in the Vangorda Formation include meta-igneous greenstone, which is more common near the top of the Formation, and carbonaceous pelite. The Vangorda Formation varies from 0.5 to 2 km in apparent thickness.

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Deloitte & Touche



Five ore deposits have been identified.

Five ore deposits have been identified in the Anvil Range area: Faro, Grum, Vangorda, Grizzly (previously DY) and Swim. Mining is complete (depletion of known economic reserves) in Faro and Vangorda deposits, partially complete in Grum and has not occurred in Grizzly or Swim. The three deposits at which mining has taken place are described below.

2.3.2 FARO ORE BODY

Rocks of the Faro Mine site were metamorphosed in the amphibolite facies of regional metamorphism. The result is that schists are more important at Faro than elsewhere, and the calc-silicate gneiss, a rock type not seen at other sites, is widespread as the major rock of the Vangorda Formation. The increased metamorphism generally tended to coarsen mineral grain sizes, including sulphide minerals.

The ore body consists of a stratiform zinc-leadsilver massive sulphide deposit, offset by faults with two main deposits, Zones 1 and 3 and a satellite deposit, Zone 2 Deformation is so complex and flattening into the metamorphic foliation is so pronounced at the Faro site that the geology appears to be a simple layer cake of stratigraphy. The ore-body is concordant to formational boundaries and is stratigraphically approximately 75 m below the top of the Mt. Mye Formation. It consists of a gently dipping, stratiform zinc-lead-silver massive sulphide deposit, offset by faults. The main deposit (Zones 1 and 3) was approximately 1.5 km long, 500 m wide and averaged 46 m thick. The satellite Zone 2 deposit was approximately 300 m long, 180 m wide and average 24 m thick.

The main ore body was composed of two zones (Zones 1 and 3) vertically offset by a normal fault as illustrated on Figure 12. This northeast trending fault, the Faro fault, is sub-vertical and bisects the main ore-body. The east block is down dropped approximately 50 m. A diorite dyke is intruded along the fault zone. The satellite Zone 2 ore body was geologically part of the same sulphide lens but was separated by normal fault offset. The Big-Indian – North Fork fault system separates Zone 2 from Zone 3. This fault set consists of several strands with a throw of roughly 75 m, west block down.

The Zone 2 Pit was one of the few areas where the Faro deposit was exposed on surface. Thus, a weathered mantle was present over part of the deposit. The Zone 2 ore body was at the edge of the overall Faro deposit and was rich in ribbon banded quartzite ore. Massive sulphide was limited and the ore grade was low compared to Zone 1 and 3 in the Main Pit. Anvil Batholith instrusives were found along the northeast side of the Zone 2 ore body.

2.3.3 VANGORDA ORE BODY

The Vangorda deposit has unusual orebody characteristics. The Vangorda deposit was a small deposit for this area and had a number of characteristics that made it unusual. These included:

- 1. Shallow depth and a greater degree of weathering;
- 2. Abundance of foot wall sulphides; and

3. Degree of development of strongly altered phyllites.

The Vangorda deposit was relatively close to the ground surface and was more affected by weathering than the other ore deposits of the district. The thickest part of the ore body occurred below a ridge of highly compacted till east of Vangorda Creek.

The Vangorda deposit consisted of one major sulphide horizon located about 50 to 120 m beneath the basal carbonaceous member of the Vangorda Formation. The host rocks for the deposit were dominantly non-calcareous phyllites. A number of thin horizons occurred above the sulphide horizon. These horizons were too thin or of too low a grade to be economically mineable, with the exception of the south-east end of the deposit where the ore horizons were shallow (resulting in a low stripping ratios). The deposit itself contains the same sulphide rock types as the other deposits in the Anvil District.

A major fault is found at the northwest end of the Vangorda Pit as illustrated in Figure 13. This fault truncated the ore body and juxtaposed the black graphitic phyllite of the basal member of the Vangorda Formation against the ore body.

2.3.4 GRUM ORE BODY

Characteristics unique to the Grum deposit	 The Grum Deposit, with mineable reserves of approximately 25 million tonne has a number of characteristics that make it unique. These include: 1. The high proportion of disseminated sulphide ore types compared to massivores; 2. The generally weak alteration overprint.; and 3. The complex, large scale, fold structure. 		
	The deposit was covered by up to 100 m of till and glaciofluvial silt, sand and gravel. The material fills a buried channel trending north-south through the southeast pit area. No notable weathering features are present at Grum as were observed at Vangorda.		
<i>Quartoze ore types form 50% of the Grum orebody reserves</i>	The Grum deposit consists of three to five highly contorted layers of massive and disseminated sulphide mineralization within a 150 m thick section of phyllite. The most important mineralized horizon occurs just beneath the basal carbonaceous member of the Vangorda Formation. There are thin low-grade horizons with the Vangorda Formation and more important horizons in the upper part of the Mt. Mye Formation. A unique feature of the geology of the Grum ore body is the presence of quartoze ore types, which formed up to 50% of the reserves. The other ore types are similar to the other deposits.		
The Vangorda Formation and the Mt. Mye formation are composed of phyllites	The Vangorda Formation at the Grum Deposit consists primarily of soft calcareous phyllites. They are not as strongly altered as at the Vangorda Deposit and are strongly calcareous. The Mt. Mye Formation at the Grum Deposit also		

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The Vangorda deposit consists of one major sulphide horizon and there is a major fault at the northwest end of the Pit



consists of phyllites, which are non-calcareous and less distinctly banded than those of the Vangorda Formation.

Grum deposit faults There are several important faults at the Grum Deposit. The largest displacements occur on moderately dipping structures that truncate the deposit at both its northwest and southeast ends but do not crop out in the pit. A steeply north-west dipping fault set down drops the deposit about 60 m on the northwest. A myriad of smaller steeply dipping faults has also been mapped both underground and in the pit. Figure 14 illustrates geology for the ultimate design Grum Pit, which is larger than the existing excavation.

2.3.5 ROSE VALLEY GEOLOGY

The mine is situated within an area of discontinuous permafrost The mine area is situated within an area of discontinuous permafrost. At the mine site, north facing slopes and areas with older forest cover are more likely to contain permafrost. Permafrost ground, with varying degrees of ground ice content, was encountered during the construction of the Cross Valley Dam and the Rose Creek Diversion Channel. Felsenmeer is formed near the top of high hills due to frost action effects on exposed bedrock.

The surficial geology of the Rose Creek valley generally consists of colluvial, fluvial and morainal deposits forming a discontinuous cover over the bedrock. On the valley sides, bedrock is discontinuously covered with a veneer of morainal and colluvial deposits that increases in thickness towards Rose Creek. A complex assemblage of fan and outwash sand and gravels, dissected by stream channel and lacustrine materials fill Rose Creek Valley. Terraces and fans are prominent on the north side of the valley, where they, in part, underlie the existing tailings area.

Bedrock underlying the Rose Creek Valley and bedrock in the Vangorda and Grum Pits consists of Cambrian to Ordovician rocks of the Vangorda Formation Bedrock underlying the Rose Creek valley consists primarily of the Cambrian to Ordovician rocks of the Vangorda Formation. This formation is described as a "soft silvery grey calcareous phyllite with interbands of medium crystalline grey marble" (RGC 1996). This formation has been locally intruded by granodiorites and quartz monzonites of the Anvil Batholith. Foliation in the bedrock underlying the Rose Creek valley is mapped as generally parallel with the valley axis (west northwest to east southeast and dipping shallowly to the southwest (15 to 30 degrees) (Pigage 2001). The competence of the bedrock varies but in most cases is poor. Exposures were found to be easily eroded by freeze –thaw and stream flow processes. In places, the schist is reported as being weathered up to 2 m depth (Golder 1980).



2.4 GEOLOGICAL HAZARDS AND SEISMICITY

2.4.1 GEOLOGICAL HAZARDS OVERVIEW

BGC described an assessment of hazards based on a review of geological information and an assessment of mine infrastructure Geological hazards resulting from natural conditions have the potential to significantly impact facilities and infrastructure at a mine site. An assessment of hazards at the Anvil Range Mine Complex was described by BGC based on a review of surficial and bedrock geological information coupled with an assessment of climatic and topographic conditions related to mine infrastructure locations. The assessment utilized information provided in BGC 2001, which was a qualitative risk assessment for structures situated in the Rose Creek valley.

Some potential geological hazards that may exist at the Anvil Range Mine Complex consist of the following:

- 1. Landslides, in either soil or rock.;
- 2. Falls;
- 3. Debris torrents; and
- 4. Fault movements.

Consequences of landslides, falls and debris torrents The three types of slope movements: landslides, falls and debris torrents, have essentially similar consequences. Failure debris that travels into the mine complex area may impact either a pond of water, a water channel, the access roads or some other component of the mine infrastructure such as a pipeline, dam or treatment facility. If the debris falls into a pre-existing body of water, a wave could be generated that would overtop the water retention structure (a dam or dike). If the debris falls into a channel, then the channel could be blocked, or if the volume of debris is small, the hydraulic capacity of the channel will be changed. If the debris falls on the road, then access could be blocked. Other component specific consequences (e.g. complete damage to a water treatment pipeline) are possible as well.

Fault movements, a hazard related to the seismic risk assessment for a site, consists of the rapid movement of the ground beneath one of the site structures or channels. Fault movements, if severe, could potentially result in deformations or failure of dams or other earth structures.

2.4.2 SLOPE MOVEMENT AND FALLS

Slope stability issues are confined to local failures The majority of the natural soil located in the Anvil Range Mining Complex consist of granular soils; *i.e.* locally derived tills, glacial outwash deposits and fluvial deposits. These soils are not particularly prone to slope stability hazards, except for the mechanism of river erosion and within active fluvial fans. Even in these two cases, slope stability issues will likely be confined to local failures due to oversteepening and eroding water.



Colluvial deposits could provide erratic rockfalls or local slides

The areas most likely to experience rockfalls are the exposures located above the FWSD reservoir and the Rose Creek Diversion Canal. The colluvial deposits that have been mapped at the Faro Mine are either soils that are actively moving or soils that have moved downslope into their current position. The colluvial soils should be considered to be quasi-stable or in an active state of movement. These materials are typically located on the steeper sections of the surrounding Rose Creek or Vangorda Creek valleys and could provide erratic rockfalls into the valley or local small slides.

Unless in very weak rock masses, rockslides are controlled by the discontinuities within the rock mass. Most rock slopes failures can be classified as either: planar failures, wedge failures, toppling failures or circular failures. The initiation of failures would be dependent upon site-specific geological controls (foliation planes, joints, etc.) and the orientation and height of exposed surfaces.

For rock falls to occur, there needs to be exposed rock faces, steep slopes on the exposed faces and adverse geological controls. The areas of the Faro Mine site that are the most likely candidates for exposure to rock fall hazards are the exposures located above the Fresh Water Supply Dam ("FWSD") Reservoir (which is scheduled for removal by March 2004 as described in Volume 1) and the Rose Creek Diversion Canal. The steepness of the overall slopes in the area of the Anvil Range Complex range up to 30 degrees (based on Figure 10). Some local oversteepening in the area surrounding the creeks and rivers is likely. In addition, the exposed rock slopes are likely locally steeper than the general overall slope angles.

Earthquake loading should also be considered as part of any slope stability assessment. Earthquakes can have two main effects on the stability of the slopes; increased horizontal force in the slope that decreases the stability and liquefaction of soil within the slope or at the foundation. As noted for soil slides, the addition of earthquake loading will adversely affect the stability of rock slopes.

2.4.3 DEBRIS FLOWS

This may occur in the upper reaches of the surrounding mountains along some headwaters of the creeks. Debris flows consist of a spatially continuous movement where the soil/rock moves as a viscous liquid. This type of failure may occur in the upper reaches of the surrounding mountains and feed soil and rock into the Anvil Range Mine Complex. This type of failure would require steep slopes and debris within the steep area. It is envisioned that only in the high altitudes along some headwaters of the creeks that this type of failure could occur.

2.4.4 FAULT MOVEMENTS

The hazards include impacts to structures and slopes and rock slides. Faults occur throughout the Anvil Range Complex site area. A major regional fault is the Tintina Trench, located close to the study area. The major geological hazard related to faults is related to fault movements that induce earthquakes. If the fault is located in the immediate vicinity, then the direct movements of the fault can impact structures and slopes. The secondary geological hazard related to faults is in the local control of slides within the rock mass. The rockmass,

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located at a fault zone, can generally be recognized by a zone of intense shearing, fracturing and brittleness of the rock. These factors combine to potentially form the boundaries of rock slides or falls.

Known faults within the Mine complex include the Rose Creek Fault, Vangorda Fault, Blind Creek Fault, and the Tie Fault.

2.4.5 SEISMICITY

Earthquakes can produce both ground ruptures and seismic shaking of the ground, depending upon the magnitude (M) of the earthquake, the distance from the epicenter and the local site-specific conditions. Both of these resultant occurrences have potential impacts on engineered structures, such as dams and other water diversion structures. Before any impact analyses can be undertaken on the various engineered structures, it is necessary to estimate the level of seismic shaking that a structure may undergo. This task is generally referred to as a seismic hazard assessment. Peak ground acceleration (PGA) values resulting from seismic events are stated as a percentage of gravity (g).

A number of studies of seismicity relevant to the Faro mine complex have been conducted over the life of the mine.

There are three approaches to seismic risk assessment that result in different site acceleration estimates Vick (1983) noted that there are three main approaches to seismic risk assessment that will likely result in different estimates of potential site acceleration values:

- 1. Historical seismicity approach examination and summary of the historic earthquake record proximal to the site in question.
- 2. Probabilistic approach refinement of the historical approach where the historical record is the basis of a probabilistic analyses to determine a unique probability of occurrence for each possible level of seismic acceleration.
- 3. Deterministic approach where an estimate of the maximum seismic acceleration is based on an assessment of available geological data without regard for past historic events. The geological data is used to determine the nearest fault and then to estimate the magnitude of the earthquake that would result on this fault. This approach is commonly applied in areas where active earthquake-generating faults exist. Generally, the acceleration estimated by this method is termed as "maximum" or "maximum credible".

A range of PGA's have been used for designing various facilities at the Anvil Range Mine Complex. In the "Abandonment Plan for Faro Mine Tailings" report, dated September 1981, Klohn Leonoff (Klohn) estimated PGA values based on two different approaches as follows:

- 1. 0.07g for a 475 year return period;
- 2. 0.10g for a 900 year return period;
- 3. 0.32g for a 10,000 year return period; and
- 4. 0.40g for Maximum Credible Earthquake (MCE).

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Deloitte & Touche

It was recommended that the MCE be used as the closure design criteria

Statistical and historical analyses were used to estimate the MCE Klohn noted that the closure design criteria would be much different than the values used for an operating mine. Therefore, Klohn recommended that the MCE be used for the design criteria. The data available at that time was limited and a conservative approach was taken.

Based on the historical movement rates within the Tintina Trench, Klohn estimated that an earthquake with a magnitude of M6.5 could occur. Using an empirical formula that included the distance from the site to the location of the earthquake, a peak ground acceleration of 0.40g was estimated. Using the same methodology and an estimated M6.0 earthquake within the local faults of the Rose Creek Valley, a peak ground acceleration of 0.36 g was estimated for the site facilities.

Statistical analysis was also performed by Klohn, based on earthquake analysis provided by GSC Pacific Geoscience Centre (PGC). The 10,000-year event resulted in a peak ground acceleration of 0.32 g. The analysis was also performed to estimate the 475-year return period earthquake, which was determined to be 0.07g. The report noted that one method used to estimate the MCE was by doubling the magnitude of the 475-year event and that this would result in an MCE of 0.14 g.

In a Dome Petroleum memo dated September 1984, based on information supplied by the PGC, the seismic risk for the Faro area was calculated to be 0.063g for a 475-year return period and 0.08g for the 1,000-year return period event.

In a report dated March 1986, "Report on design and proposed construction, Rose Creek Water Reservoir Dam Raising" Kilborn Engineering performed pseudo-static analysis on the proposed dam raise. It was noted that the analysis was performed using a "conservative design earthquake" value of 0.15g. No quantification of the method used to determine this earthquake loading was made, nor was the return period for this earthquake mentioned.

In a report dated February 1989, Appendix I of the report entitled "1988 Performance Monitoring and Additional work on the Down Valley Tailings project: Faro Mine", Golder Associates Ltd. used a PGA value of 0.08g (475year return period) as part of an analysis of the geotechnical stability of the FWSD. It was noted that the earthquake parameters used for this analysis of the FWSD were based on the values employed in the 1980 design of the Down Valley Tailings containment project. The design earthquakes for that project were a PGA of 0.052 g (100-year return period) and 0.097g (200-year return period). The determination of these design earthquakes were based on a statistical analysis of historical earthquakes, based on data provided from the Pacific Geoscience Centre.

In a report dated November 1996, Appendix A of the report "Anvil Range Mining Complex – Integrated Comprehensive Abandonment Plan (ICAP)"

Various studies have been conducted to estimate the PGA and seismic risk.



Robertson Geoconsultants had an assessment of the seismic ground motions for the Faro area performed. This was based on historical data and the assumption that earthquake loading would be transmitted through rock. The PGA was estimated as follows:

- 1. 0.05g for a 475 year return period; and
- 2. 0.13g for a 10,000 year return period event.

The Robertson report noted that "there is no evidence of more recent displacement along the Tintina Fault and the fault is not included as an earthquake source zone in either the H or R zonations given in the GSC report, i.e. the fault is not considered active and no maximum magnitude has been defined for the fault. Thus, it is unrealistic to consider a deterministic estimate of seismic ground motions at Faro in which an earthquake is assumed to occur on the Tintina." This suggests the Klohn value for the MCE is larger than can be generated by the existing tectonic conditions.

In a report dated November 2001, entitled "Physical Stability Assessment of the Fresh Water Supply Dam" undertaken by BGC, the seismic loading values were as follows:

- 1. 0.063g for 475 year return period; and
- 2. 0.080g for 1,000 year return period.

Klohn Crippen, as part of a dam safety review at the Faro site in 2002, undertook a seismic hazard assessment using the computer program, EZ-FRISK[®]. Two seismo-tectonic models were used, namely the GSC-R model, which is based on historical seismicity and regional tectonics, and the GSC-H model, which is based on historical seismicity. The resulting PGA values were as follows:

- 1. 0.05g and 0.06g (GSC-R and GSC-H, respectively), for the 475 year return period;
- 2. 0.09g and 0.11g (GSC-R and GSC-H, respectively), for the 2,500 year return period;
- 3. 0.15g and 0.16g (GSC-R and GSC-H, respectively), for the 10,000 year return period;

SRK (2003) recently completed a seismic hazard assessment and arrived at the following estimates of the PGA:

- 1. 0.05g for 475 year return period; and
- 2. 0.15g for 10,000 year return period.



The deterministic analysis resulted in a much larger PGA than any of the statistical analyses. The majority of the analyses performed in order to determine the seismic design parameters for the Faro Mine were based on historical records (statistical method) and probabilistic determinations. The only deterministic estimation of the earthquake risk was performed by Klohn (1981). As listed in Table 6, the deterministic analysis resulted in a much larger PGA than any of the statistical analyses.

Study	Return Period Event				
	475	1,000	10,000	Estimated MCE (based on twice the 475 Year Event)	MCE
Klohn Leonoff (1981)	0.07g	0.10g	0.32g (probabilistic)	0.14g	0.40g (deterministic)
Dome/PGC (1984)	0.063g	0.08g		0.126g	
Golder (1989)	0.08g			0.16g	
Robertson (1996)	0.05g		0.13g	0.10g	
BGC/PGC (2001)	0.063g	0.08g		0.126g	
Klohn Crippen (2002)	0.05- 0.06g		0.15 – 0.16g		
SRK (2003)	0.05g		0.15g		

 Table 6.
 Summary of Earthquake Loadings

The above information indicates that the seismic loading design criteria have been quite variable in the 20 years that have been reviewed for the Faro area. It should be noted that the design horizontal acceleration determined for the 475year return period has been relatively consistent in this period from 0.05g to 0.08g. Using the suggestion provided in Klohn 1981 that the maximum credible earthquake (MCE) is twice the magnitude of the 475-year event, relatively consistent values emerge for the magnitude of this event, from 0.10g to 0.16g even though the single deterministic analysis resulted in a larger magnitude.

Two significant seismic events were measured at the Anvil Range Mine Site in 2002. On November 3, 2002 a magnitude 7.9 earthquake occurred approximately 120 km south of Fairbanks, Alaska. A second seismic event occurred on November 5, 2002 when a magnitude 4.6 earthquake occurred approximately 50 km south of Faro. Both events were felt by the mine staff at the mine site and it was noted that numerous aftershocks associated with both events could be felt in Faro. There were no impacts to site facilities as a result of these events. These events add to the earthquake record but they do not change the conclusions provided above in relation to earthquake return periods.

2.5 WATER RESOURCES

2.5.1 WATER RESOURCE STUDY AREA

The water resource study area includes the Rose Creek and Vangorda Creek watersheds Water resources include hydrology, hydrogeology and water quality environmental components. The water resource RSA is watershed based and includes both the Rose Creek and Vangorda Creek watersheds as shown in Figure 3. The existing conditions upon which the environmental effects





assessment is based is data available from 1998 to 2002, during care and maintenance activities. Historical information is also available and is presented under each component section below, to provide information and perspective on changes to each component, over time, as a result of mine activities.

The RSA for the Faro Mine Site is defined by all catchment areas upstream of the confluence of Rose Creek with Anvil Creek. This allowed assessment of any effects of mining activity on the Rose Creek to be assessed for impacts to Anvil Creek, the next receiving water body downstream. It also allows consideration of any effects at this point in the watershed in a cumulative effects assessment for activities in the Anvil Creek watershed and, ultimately, in the Pelly River.

The Vangorda Mine site RSA is defined by all catchment areas upstream of the confluence of Vangorda Creek with the Pelly River. This boundary allows the assessment of any mine effects on fish and fish habitat in lower Vangorda Creek. Any detectable aquatic effects at this point would need to be included in a cumulative effects assessment for activities in the Pelly River.

2.5.2 HYDROLOGY

2.5.2.1 Watershed Description

The Faro Mine site facilities are located within the Rose Creek watershed and the Vangorda Plateau Mine site is located within the Vangorda Creek watershed. Anvil Creek (including Rose Creek drainage) and Vangorda Creek are both tributaries to the Pelly River. The Rose Creek watershed is approximately 340 km^2 and flows to the 980 km² Anvil Creek watershed, which drains the southeast slopes of the Anvil Range Mountains to the Pelly River. The Faro Mine site facilities are within the Rose Creek watershed.

Vangorda Creek drains an area of approximately 90 km² via an east (mainstem) and west fork. Drainage from the south slope of Mount Mye flows into the main stem and drainage from the northwest slope flows into the west fork. The two forks join together just above the Town of Faro. The Vangorda Plateau Mine site is located within the Vangorda Creek watershed.

2.5.2.2 Historical Hydrological Changes

Initial development and on-going surface water management has changed the site hydrology Development of the complex resulted in significant changes to surface hydrology both during the initial development stages and on an ongoing basis as additional surface water management structures were constructed or existing structures were modified. These changes relate primarily to the interception and rerouting of surface flows in constructed diversion channels or the construction of surface water barriers that altered the downstream flow.

Initial construction of the Faro Mine Site (1968/1969) and subsequent activities involved construction of the facilities (listed in Table 7) that changed the surface hydrology.





Timeframe	Facility	Change to Hydrology
Initial Construction	Fresh Water Supply Dam	Introduction of manual control over winter flow rate in
	South Fork of Rose Creek	Rose Creek; delay in the release of freshet flows to Rose
	Dumphouse Dend	Creek
	Pumphouse Pond Faro Creek Diversion	Removal of water from Rose Creek to the mill
	Talo Creek Diversion	Rerouting of most flow from tributary to Rose Creek to tributary to North Fork of Rose Creek
	Original Tailings Impoundment	Addition of tailings supernatant into Rose Creek at an
		artificial (i.e. not natural) flow schedule
	Faro Main Pit	Interception of surface runoff and rerouting to various outflow pumping locations
	Mine Access Road	Consolidation of possible surface sheet flow and ground infiltration into discreet streams at culvert crossings
Mine Life	Rerouting of Faro Creek Diversion	Change of entry into North Fork of Rose Creek to current location
	North Fork of Rose Creek	Change of location of confluence with the South Fork and
	Diversion	possible change to groundwater recharge characteristics
	Groundwater recharge ponds in North Fork of Rose Creek	Possible increase of surface water losses to ground
	Upper leg of Rose Creek Diversion Canal	Rerouting of Rose Creek through a constructed channel
	Second Tailings Impoundment	Change of location of entry of tailings supernatant into Rose Creek
	North Wall Interceptor Ditch	Rerouting of water from Guardhouse Creek drainage into a constructed channel and change of entry location into Rose Creek
	Intermediate and Cross Valley Dams	Change of entry of tailings supernatant into Rose Creek and change of flow schedule to accommodate water treatment processes; local changes to surface water/groundwater interactions
	Lower leg of Rose Creek Diversion Canal	Rerouting of an additional length of Rose Creek through a constructed channel
	Rock Dumps	Changes to surface infiltration/runoff characteristics and routing of surface runoff flows
	Zone II Pit	Interception of surface runoff and rerouting to various outflow pumping locations
	Faro Main Pit as tailings disposal facility	Decrease in water (tailings supernatant) entering Rose Creek taken up as storage in Main Pit
	Faro Main Pit pumping/ recycle system	Periodic releases of high flows into Rose Creek via Cross Valley Pond

Table 7. Hydrological Changes Resulting from Construction at the Faro Mine Site

Initial construction of the Vangorda Plateau mine site (1989/1990) and subsequent activities involved construction of the facilities that changed the surface hydrology as listed in Table 8.



Timeframe	Facility	Change to Hydrology
Initial Construction	Rock Drain in North Fork Rose Creek	Delay of passage of high flow events (i.e. freshet) to Rose Creek and possible changes to local surface water/groundwater interactions
	Haul Road	Consolidation of possible surface sheet flow and infiltration to ground into discreet streams at culvert crossings
	Mine Access Road ("Grum turnoff")	Consolidation of possible surface sheet flow and infiltration to ground into discreet streams at culvert crossings
	Grum Interceptor Ditch	Rerouting of surface flows to Grum Creek around the Grum pit
	Vangorda Creek Diversion Flume	Rerouting of Vangorda Creek into a constructed channel
	Grum and Vangorda Pits	Interception of surface runoff for storage or rerouting to water treatment plant
	Vangorda Pit interceptor ditches	Rerouting of surface flows and consolidation of possible surface sheet flow into discreet streams
	Water Treatment Plant	Periodic releases of high flows into Grum Creek (pre-1995) and Vangorda Creek via the Grum Interceptor Ditch (post 1995)
Mine Life	Overburden dump, rock dumps and ore transfer pad	Changes to surface infiltration/runoff characteristics and routing of surface runoff flows
	Vangorda Rock Dump collector ditch/Little Creek Dam	Interception of surface runoff for storage or rerouting to water treatment plant
	Rerouting of Grum Interceptor Ditch to Sheep Pad Pond	Rerouting of surface flows from tributary to Grum Creek to tributary to Vangorda Creek
	Moose Pond	Rerouting of partial surface flow from Grum Creek to ground

Table 8. Hydrological Changes Resulting from Construction at the Vangorda Plateau Mine Site

2.5.2.3 Hydrologic Investigations

The majority of
hydrological
investigations have
focussed on one area
onlyHydrological investigations that have been undertaken throughout the mine life
have generally focussed on the mine sites and their immediate receiving
environments. The majority of these studies focussed on one area only, such as
the design flood for a proposed diversion channel or the minimum size of
reservoir required to provide a reliable water supply to the Faro Mill.

Streamflow monitoring Streamflow monitoring The streamflow monitoring network in the vicinity of the Anvil Range Mining Complex was increased beginning around 1990 with the installation of automatic water level recorders and by expanding the number of flow measurement stations. As well, the Yukon Territory Government added three new stations (Drury Creek, Tay River and Blind Creek) in the mine region. Drury Creek is located approximately 50 km west of the mine area. Tay River shares its catchment divide (on the north side) with Anvil Creek and Vangorda Creek, and Blind Creek shares its catchment (on the south side) with Vangorda Creek.



Two hydrological studies are most relevant to the site:

- 1. 1996 Integrated Comprehensive Abandonment Plan ("ICAP") Study (RGC 1996); and
- 2. 2002 Water Balance and Contaminant Loading Study (Gartner Lee Limited, 2002b).

Mean Annual Runoff

The ICAP study (RGC 1996) provided a comprehensive hydrological assessment of the Faro and Vangorda Plateau Mine site areas. Flows were measured using a variety of techniques (weir, bucket and stopwatch, current meter, staff gauge, and pressure transducer). The following sources of information were used in the 1996 hydrological assessment:

- Sources of information for the 1996 ICAP study
- 1. The series of Annual Reports prepared for Water Licence IN89-001 (water quality and quantity data presented and evaluated at the Faro Mine and area).
- 2. The series of Annual Reports prepared for Water Licence IN89-002 (water quality and quantity data presented and evaluated at the Vangorda Plateau development).
- 3. Streamflow records collected by the Water Survey of Canada (WSC) at 16 streamflow gauging stations.
- 4. Streamflow records collected at 3 hydrometric stations operated by the Water Resources Division of DIAND.
- 5. Records of spot flow measurements made by DIAND personnel at water quality monitoring sites throughout both Faro and Vangorda Plateau developments.
- 6. Environmental reports prepared by Steffen Robertson Kirsten (Canada) Inc. (SRK) and Laberge Environmental Services.
- 7. Unpublished data gathered by mine personnel, such as raw data extracted from the mine's automatic water level recorders.

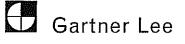
For the 1996 hydrological assessment, data collected by the WSC and DIAND were used to characterize the minesite hydrology by employing a regional analysis technique which involved deriving empirical relationships between the measured streamflow of the regional stations and the physical characteristics of the catchments which generated the streamflow. These empirical relationships then formed the basis for estimating flows at ungauged points around the Faro and Vangorda Plateau Mine sites.

Elevation generally accounts for a large proportion of the variation in mean annual precipitation within a mountainous region; hence, mean annual runoff (MAR) was also assumed to be a function of elevation. The following sources of data were assembled to determine this relationship:

1. Nineteen pairs of MAR and median elevation data provided by the WSC and DIAND stations.

Flows were estimated at ungauged points around the mine sites

The relationship between elevation and mean annual runoff was determined



2. Four pairs of MAR and median elevation values provided by four incremental catchments monitored by the WSC.

To assemble data source 1, the streamflow records with missing data were patched, then the series of annual average discharges for each station were averaged to arrive at a preliminary estimate of MAR. Next, the preliminary MAR estimates were adjusted so they were representative of a common 30-year period from 1966 to 1995. Finally, the median elevations for all the stations were measured from topographic maps.

The second source of data was obtained from those streams in the region that are monitored by two streamflow gauging stations. The data from these paired stations were collectively used to characterize the MAR and median elevation of the intervening catchment between the stations.

Once all the data were assembled and processed, a curve was fitted to the data to develop a relationship that was believed to represent hydrological conditions for various median elevations at the mine site (Figure 15).

Extreme Flood Estimation

Flood estimates were developed in 1996 for several key points around the mine sites to provide the basis for the conceptual design of spillways and diversion channels.

Two extreme flood events were examined for each point of interest, namely the 500-year peak instantaneous flood and the Probable Maximum Flood (PMF). The former is a rare event which is expected to only be exceeded once every 500 years on average (or roughly once in 6 lifetimes). The latter event is defined as "the flood that may be expected from the most severe combination of meteorologic and hydrologic conditions that are considered to be reasonably possible in the geographical region encompassing the basin under study" (USACE 1980). The PMF for the study area has a likely return period in excess of several thousand years.

The magnitude of a 500-year peak instantaneous flood was estimated using the Rational Method. The magnitude of PMF events was estimated using the Creager Curve. Results of these analyses are presented in Table 9.

Table 9. Estimated Peak Instantaneous Flood Discharges for Various Structures

Structure	Catchment Area (km ²)	500-Year Return Period (m ³ /s)	Probable Maximum Flood (m ³ /s)
Faro Creek Diversion Channel	15.3	27	150
Intermediate Dam Spillway	221	190	840
Vangorda Creek Diversion Channel	20.1	31	180

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Flood estimates provide the basis for conceptual design of spillways and diversion channels. They were examined for the 500 year peak instantaneous flood and the PMF.



2.5.2.4 Water Balance Methodology

A complete water balance for the Rose and Vangorda catchments was developed in 1996 for the Integrated Comprehensive Abandonment Plan (RGC, 1996). This work was subsequently updated in 2001 based largely on the collection of additional flow data via a set of on-site continuous data loggers.

The 1996 water balance covered the Anvil Creek and Vangorda Creek watersheds To complete the 1996 water balance, the mine complex was described as a system of elements and associated flow paths between the elements. The amount of water generated by each element and the amount of water flowing along each flow path was then quantified. The coverage of the water balance was extended over the entire watersheds of Anvil Creek and Vangorda Creek. The outlets of the subcatchments were dictated by the locations of water quality monitoring stations, tributary confluences, open pits, and dams.

A total of 36 subcatchment areas, 20 for Anvil Creek and 16 for Vangorda Creek, were identified. Table 10 provides a description of each subcatchment, together with its measured drainage area and estimated mean annual runoff for its median elevation for the period 1990 to 1995. The subcatchment areas are illustrated on Figures 16, 17 and 18.

New data obtained from the installation of new streamflow recorders helped to create a new water balance in 2002

Seasonal effects were presented The installation of several continuous streamflow recorders from 1996 to 2002 provided additional data that was combined with the results of the 1996 water balance study to create new water balances for Rose and Vangorda Creeks (GLL, 2002b). The new data collected from 1996 to 2000 included spot flow measurements around the minesite and, most importantly, three new flow recorders (pressure transducers with dataloggers) as follows:

- 1. At location R7 in the North Fork of Rose Creek, installed in 1996;
- 2. At location X14 in Rose Creek below the tailings facility, installed in 1998 as a replacement to an older, malfunctioning unit; and
- 3. At location V8 in lower Vangorda Creek, installed in 1998.

New water balances were described for the 1996 subcatchment areas (Figures 16 to 18) that were based on the actual measurements to as great a degree as practical. Flows at ungauged locations were extrapolated from gauged locations in proportion to the MAR's calculated in 1996 (Table 9). The water balance was presented in terms of two seasons (winter and fall) defined as November to April and May to October as a means of capturing seasonal effects.

Subcatchment ID No.	Subcatchment Description	Catchment Area (km2)	Median Elevation (m)	MAR for Period 1990 1995* (mm)
ANVIL CREEF	(WATERSHED			
1	Faro Creek at Diversion Inlet	13	1540	396
2	Faro Valley Interceptor Ditch at outlet	1.28	1420	342
3	Incremental catchment of Faro creek Division Channel (FCD)	1.94	1370	320
4	Main Pit catchment (zone I/III)	2.15	1260	270
	Zone II Pit catchment (excluding area commanded by Zone II	2.15	1200	270
5	interceptor ditch)	0.33	1170	230
C C	North Fork of Rose Creek above Faro Creek Diversion			
6	Channel (station R7)	95	1470	365
7	North Fork catchment above X2 and below R7 and FCD	9.1	1220	252
8	Incremental Catchment of North Fork Diversion Channel	1.04	1110	203
9	South Fork of Rose Creek at Fresh Water Reservior Dam	67	1420	342
10	Incremental catchment of Pumphouse Reservior	8.6	1230	257
11	Old Faro Creek channel above X23 (incremental)	0.9	1160	225
12	Old Faro Creek Channel above X7 and X23	0.9	1160	225
13	Incremental catchment of Down Valley Tailings Impoundment	4.3	1050	176
14	Incremental catchment of Rose Creek Diversion Channel	17.6	1300	288
15	Gaurdhouse Creek below wast rock dumps	1.86	1480	369
	Incremental catchment of North Wall Interceptor Ditch			
16	(NWID)	4.5	1190	239
17	Rose Creek above X14 and below NWID, X5 and X10	2.1	1130	212
	Rose Creek between mouth and Station X14	105	1280	279
19	Anvil Creek above Rose Creek	322	1450	356
	Anvil Creek between mouth and Rose Creek	321	1170	230
	REEK WATERSHED			
21	Vangorda Creek above station V1	18.7	1590	419
	Subcatchment of Blind Creek road	1.4	1330	302
23	Subcatchment of Vangorda Northeast interceptor ditch	0.6	1200	243
	Subcatchment of Vangorda Pit	0.8	1160	245
	Subcatchment of Little Creek Dam	0.44	1130	212
	Subcatchment of Vangorda Waste Dump	0.28	1130	212
	Subcatchment of Grum Northeast Interceptor Ditch	1.8	1350	311
	Subcatchment of Grum Pit	1.8	1300	288
	Subcatchment of Overburden Dump	1.4	1240	
	Grum Creek between V2 and the haul road	1.4	1240	261 243
21				444
	Vangorda creek above V27 and below V2 and the plunge pool	3.7	1160	225
	Shrimp Creek between V4 and V20	12.6	1150	221
	AEX Creek above V6A	4.4	1360	315
	West Fork Vangorda Creek between V5and V6A	27	1190	239
	Vangorda Creek above 29BC003 and below V27, V4 and V5	12.7	960	135
	Vangorda Creek between V8 and 29BC003	12	700	18
ELLY RIVER				
	Blind Creek above DIAND Station 29BC004 Pelly River above WSC Station 09BC004 and below 29BC004	618	1180	231
	and V8	21400	1210	318
	Pelly River between Anvil Creek and WSC Station 09BC004	454	800	63
	Tay River above WSC Station 09BC005	3810	1160	****
	MacMillan River above WSC Station 09BB002	13800	1100	228 336
	Pelly River above 09BC001 and below Anvil Creek, 09BC005	15000	1130	066
	and 09BB002	7860	880	109

Table 10. Details of Subcatchments for Historical Water Balance Analysis

* MAR = mean annual runoff. The period 1990-1995 was relatively wet (approximately 10% greater than the MAR experienced in the preceding 25 years).



Streamflow Record – Rose Creek

The streamflow record for location R7 in the North Fork of Rose Creek upstream of mine activities (Figure 3) provides the most continuous recording of local flow in recent years. These data were measured by a datalogger and pressure transducer installed in September 1996.

A stage discharge curve was used to convert pressure transducer readings to equivalent flow rates

Daily flow rates were screened for anomalous readings and for the effects of ice

An early winter spike in the Rose Creek data was revealed A stage-discharge curve was developed for location R7 based on available spot flow measurements. The curve was used to convert the pressure transducer readings (height of water) to equivalent flow rates. These pressure readings were monitored by the datalogger at 45-minute intervals. To compute an accurate daily flow record, these readings were first converted into 45-minute flows and subsequently compiled into daily (24-hour) averages.

The daily flow rates at location R7 were screened for anomalous readings and, specifically, for artificial effects of ice. This was accomplished by overlaying the streamflow record for location R7 with a streamflow record operated by the Water Survey of Canada (WSC) on the Ross River at Ross River. This was a useful comparison because the WSC employs special processing techniques that account for the effect of ice on their stage measurements. Furthermore, the Ross River exhibits a similar streamflow pattern as the North Fork, as evidenced by a correlation of coincidental flow data at the two streams.

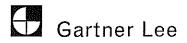
The overlay of data revealed a consistent early winter spike in the Rose Creek (R7) data that does not appear in the Ross River record. These peaks are attributed, at this time, to the effects of early freezing and ice formation and were removed from the database for Rose Creek such that the two flow records showed similar seasonal patterns. The patched R7 streamflow record was subsequently used as the primary reference for flows in the mine area.

The streamflow record at location X14 (noted on Figure 3) is recorded by a datalogger and pressure transducer. However, the data record is not as continuous as at location R7. Replacement data loggers and transducers have been installed periodically due to damage. The rating curve that is used to convert the pressure transducer readings into flow rates was applied to hourly data which was subsequently compiled into daily (24-hour) averages.

Water Balance – Rose Creek

The North Fork of Rose Creek is defined in this study as the area upstream of location X2 (noted on Figure 3). The North Fork was selected as a distinct component of Rose Creek because of the important source terms in the drainage area and because the available monitoring data was sufficient to support the assessment of these specific source terms.

The interactions between source terms to the North Fork of Rose Creek are illustrated in Figure 19. The resulting water balance is listed in Table 11. Some general comments that apply to development of the water balance are as follows:



Comments that apply to development of the water balance for the North Fork of Rose Creek.

Comments that apply to the water balance for Rose Creek at location X14.

- 1. Two seasonal periods (summer and winter) were selected in order to identify significant seasonal trends and in order to provide a flexible model for future sensitivity analyses.
- 2. The water balance was constructed beginning in winter 1995/1996 in order to correspond to the available flow data. Eleven time steps were defined to represent winter and summer seasons to winter 2000/2001.
- 3. Flows for ungauged subcatchments were extrapolated from the R7 streamflow record in proportion to the catchment areas and mean annual runoffs listed in Table 9.
- 4. The combined Faro Valley and Faro Creek diversion system was assumed to pass 76% of its flow into the North Fork of Rose Creek (i.e. leaks 24% into Faro Main Pit).
- 5. The quantity of seepage from the Zone II Pit into the North Fork of Rose Creek is based upon calculations developed for the ICAP study.
- 6. No direct seepage from the Faro Main Pit into the North Fork of Rose Creek is considered.

The water balance for Rose Creek (downstream of the Rose Creek Tailings Facility at location X14 as illustrated in Figure 3) incorporates all of the known source terms from the mine site. The interactions between source terms to Rose Creek at location X14 are illustrated in Figure 20. The resulting water balance is listed in Table 12. Some general comments that apply to development of the water balance are as follows:

- 1. Two seasonal periods (summer and winter) were selected in order to identify significant seasonal trends and in order to provide a flexible model for future sensitivity analyses.
- 2. The water balance was constructed beginning in winter 1995/1996 in order to correspond to the available flow data. Eleven time steps were defined to represent winter and summer seasons to winter 2000/2001.
- 3. Flows for ungauged subcatchments were extrapolated from the R7 streamflow record in proportion to the catchment areas and mean annual runoffs listed in Table 9.
- 4. Flow from the North Fork of Rose Creek is represented as one source term taken from Table 11.
- 5. The rate of recharge to groundwater upstream of the tailings facility and beneath the Cross Valley Pond and the rate of groundwater discharge downstream of the Cross Valley Pond are taken from the 2001 hydrogeological model described in *Rose Creek Tailings Facility, 2001 Hydrogeological and Geochemical Investigation*, Gartner Lee, 2002c.
- 6. Surface release from the Cross Valley Pond (X5) and seepage from the Cross Valley Pond (X13) are taken from Annual Environmental Reports for the

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		No. days	182	184	181	184	181	184	181	184	182	184	181	
							Average Dis	charge for p	eriod (m ³ /s)	:				
Catchment	Component	Time Step	1	2	3	4	5	6	7	8	9	10	11	Average
		Season	w	S	w	S	w	s	w	s	Ŵ	s	w	of 11
		From	Nov-95	May-96	Nov-96	May-97	Nov-97	May-98	Nov-98	May-99	Nov-99	May-00	Nov-00	Periods
		To	Apr-96	Oct-96	Apr-97	Oct-97	Apr-98	Oct-98	Apr-99	Oct-99	Apr-00	Oct-00	Apr-01	
North Fork above R7	Local runoff (6)		0.245	1.587	0.172	1.454	0.298	1.113	0.224	1.829	0.255	2.010	0.324	0.865
Faro Creek Diversion	Local runoff (1+2+3)		0.044	0.284	0.031	0.260	0.053	0.199	0.040	0.327	0.046	0.360	0.058	0.155
	 Groundwater to Main Pit 		0.011	0.068	0.007	0.062	0.013	0.048	0.010	0.079	0.011	0.086	0.014	0.037
	= Discharge to North Fork		0.033	0.216	0.023	0.198	0.041	0.151	0.030	0.249	0.035	0.273	0.044	0.118
NE Dump	Local runoff (7a)		0.00074	0.00481	0.00052	0.00441	0.00090	0.00337	0.00068	0.00554	0.00077	0.00609	0.00098	0.00262
Zone II Pit and Dump	Local runoff (5)		0.00051	0.00333	0.00036	0.00305	0.00063	0.00234	0.00047	0.00384	0.00054	0.00422	0.00058	0.00182
	 Estimated scepage to NF 	1	0.00058	0.00058	0.00058	0.00058	0.00058	0.00058	0.00058	0.00058	0.00058	0.00058	0.00058	0.00058
	= Pumped to Main Pit (net)		0	0.00268	0	0.00225	0	0.00180	0	0.00315	0	0.00359	0.00050	0.00122
Intermediate Dump	Local runoff (7b)		0.0011	0.0071	0.0008	0.0065	0.0013	0.0050	0.0010	0.0082	0.0011	0.0090	0.0015	0.00122
Remainder of NF catchment	Local runoff (7c)		0.014	0.092	0.010	0.084	0.017	0.065	0.013	0.106	0.015	0.117	0.0015	0.0039
North Fork at X2	Total		0.295	1.908	0.207	1.748	0.358	1.338	0.270	2.199	0.307	2.416	0.389	1.039

Table 11. Water Balance Calculations for North Fork Rose Creek

Notes:

1) The Faro Ck Diversion controls a total area of 16.2 km2. An estimated 24% of the yield from this catchment bypasses the diversion channel and reports to the Main Pit. 2) RGC estimated seepage from Zone II Pit to North Fork to be 18,400 m3/y with a water level in pit of 1110 m. No allowance made for overland flow from Zone II Dump to North Fork. 3) Some flow bypasses R7 and X2 in the stream alluvium. This flow was assumed to be negligible. 4) Local runoff = combination of groundwater, interflow and overland flow.

Table 12. Water Balance Calculations for Rose Creek

		From	Nov-95	May-96	Nov-96	May-97	Nov-97	May-98	Nov-98	May-99	Nov-99	May-00	Nov-00	7
Measured Flow Stream	(1000 m ³)	То	Apr-96	Oct-96	Apr-97	Oct-97	Apr-98	Oct-98	Apr-99	Oct-99	Apr-00	Oct-00		
Dewatering of Main Pit			0	0	0	646	1011	2007	78	982	1 Apt-00 0	1800	Apr-01	1
Surface release from tailir	ugs impoundments (X5)		2319	772	1015	2164	2497	3922	0	1760	400	3000	1000	
	of Cross Valley Dam (X13)		610	964	737	1256	1031	1273	759	978	700	800	700	
Extractions from Pumpho			5401	5198	5145	36	175	Ð	0	0	0	0	0	
Extractions from Pumpho	use Wells to Pumphouse Reservoir		1719	0	1565	0	0	0	0	Û	0	0	0	
		No, days	182	184	181	184	181	184	181	184	182	184	181	
							Average Dis	charge for p	eriod (m ³ /s):				
Catchment or Aquifer	Component	Time Step	1	2	3	4	5	6	7	8	9	10	11	Averag
		Season	w	S	w	S	w	S	W	S	w	S	w	ofi
		From	Nov-95	May-96	Nov-96	May-97	Nov-97	May-98	Nov-98	May-99	Nov-99	May-00	Nov-00	Period
North Fork above R7	Reference forwards	To	Apr-96	Oct-96	Apr-97	Oct-97	Apr-98	Oct-98	Apr-99	Oct-99	Apr-00	Oct-00	Apr-01	
Main Pit	Reference flow record		0,245	1.587	0.172	1.454	0.298	1.113	0.224	1.829	0,255	2,010	0.324	0.865
Main 1.B	Local runoff (4a+4b)		0.004	0,027	0.003	0,025	0.005	0.019	0.004	0.031	0.004	0.034	0.006	0.015
	+ Leakage from Faro Ck Diversion		0.011	0.068	0,007	0.062	0.013	0.048	0.010	0.079	0.011	0.086	0.014	0.037
	+ Pumped from Zone II Pit (net)		0.0000	0,0027	0.0000	0,0023	0.0000	0.0018	0.0000	0,0031	0.0000	0.0036	0,0000	0.001
	+ Liquid fraction of tailings slurry - Pumped to tailings impoundment		0,321	0.305	0.307	0.002	0.011	0.000	0,000	0.000	0,000	0.000	0.000	0,086
	 Pumped to failings impoundment Change in storage of pit 	~ }	0.000	0.000	0.000	0,041	0,065	0.126	0.005	0.062	0,000	0.113	0.000	0,037
NW & Main Dumps	To North Wall Interceptor Ditch (16a)		0.336	0.403	0.317	0.051	-0.036	-0.058	0.008	0,051	0.015	0.011	0.019	0,102
	+ To tailings impoundment (1 + (2+13a)		0.0005	0.0030	0.0003	0,0028	0.0006	0.0021	0.0004	0.0035	0.0005	0.0038	0.0006	0.001
	+ To Rose Ck Diversion (8n)	-			0,002	0,021	0.004	0.016	0,003	0.026	0,004	0.029	0,005	0.012
			0.00019	0.00121	0.00013	0.00111	0,00023	0.00085	0.00017	0,00139	0.00019	0.00153	0.00025	0.0006
North Fork above X2	Discharge at X2 (surface flow and gdw in alluvium)		0.295	0.027	0,003	0.025	0.005	0.019	0,004	0.031	0.004	0,034	0.005	0,015
	- Recharge to Rose Ck aquifer		0.295	0.040	0.207	1.748	0.358	1.338	0.270	2.199	0.307	2.416	0.389	1.039
	= Discharge to Rose Ck Diversion Channel		0.255	1.868	0.167	1.708	0,040	0,040	0.040	0,040	0.040	0.040	0,040	0,040
South Fork	Local runoff (9+10)		0.177	1.149	0.187	1.053	0,318	1.298	0.230	2.159	0.267	2.376	0.349	0,999
	- Mill supply from reservoir and wells		0.343	0.327	0.124	0.002	0.210		0.162	1,324	0.185	1.455	0.234	0.626
	- Recharge to Rose Ck alluvium aquifer		0.039	0.039	0.039	0.039	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.092
	- Change in storage (reservoir + aquifer)		+0.206	0.206	0.039	0.039	0,039	0.039	0,039	0.039	0.039	0.039	0.039	0,039
	= To Rose Ck Diversion		0,001	0.577	0.001	0.245	0.165	0.767	0.123	1.285	0	0	0	0.008
North Wall Interceptor	Local runoff (15+16b)		0.012	0.078	0,008	0.071	0.015	0.055	0.011	0.090	0.146	1.416	0.195	0.495
	+ Runoff from part of NW Dump		0.0005	0.0030	0.0003	0.0028	0.0006	0.0021	0.0004	0.0035	0.0005	0.0038	0.0006	0.042
	= Total discharge at ditch outlet		0.012	0.081	0,009	0.074	0.015	0.057	0.0004	0.0033	0.0005	0,0038	0.0006	0.001
Rose Ck Diversion	Local runoff (8b+14+17)		0.040	0.260	0,028	0.238	0.049	0.183	0,037	0.300	0.013	0.102	0.016	0,144
	+ Runoff from part of Main Dump		0,00019	0.00121	0.00013	0.00111	0.00023	0.00085	0.00017	0,00139	0.00019	0.00153	0.00025	0.0006
	+ North Fork at X2 (excl. recharge to Rose Ck aquifer)	1	0.255	1.868	0.167	1.708	0.318	1.298	0.230	2,159	0.267	2.376	0.349	0.999
	+ South Fork runoff	1	0.001	0.577	0.001	0.767	0.165	0.767	0.123	1.285	0.146	1.416	0.195	0,495
	 Leakage to tailings impoundments (estimated) 	1	0.095	0.095	0,095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095
	Proportion of leakage originating from N Fark		86%	69%	85%	63%	6026	5896	59%	58%	59%	5826	58%	0.075
	Proportion of leakage originating from S Fork		<i>0</i> %	2/%	1%	28%	31%	34%	32%	3496	3276	34%	33%	1
	Proportion of leakage originating from local rumoff		14%	10%	14%	9%	9%	8%	9%	8%	936	896	9%	
	= Total discharge at channel outlet		0.201	2.612	0.10)	2.619	0.438	2.153	0.295	3,650	0.360	4.028	0.503	1.542
Rose Creek Tailings	Local runoff (13b) (yield assumed 50% > natural)		0,008	0.050	0.005	0.046	0,009	0.035	0.007	0.058	0.008	0.063	0,010	0,027
acility (excluding	+ Pumped from Main Pit		0,000	0.000	0.000	0.041	0.065	0.126	0.005	0.062	0.000	0,113	0.000	0,037
underlying afluvial	+ Runoff from NW & Main Dumps		0.004	0.023	0.002	0.021	0.004	0,016	0.003	0.026	0,004	0.029	0,005	0.012
iquifer)	+ Emergency release from mill (estimated)		0.022	0.022	0,022	0,000	0.000	0,000	0.000	0,000	0.000	0,000	0.000	0,006
	+ Leakage from Rose Ck Div. (to make inflows match outflows)		0.095	0.095	0.095	0.095	0.095	0.095	0,095	8.095	0,095	0.095	0.095	0.095
	- Surface release at X5		0.147	0.049	0.065	0,136	0.160	0.247	0.000	0.111	0,025	0.189	0.064	0.108
	- CVD seepage originating from Polishing Pond (part of X13)	J	0.032	0.054	0.040	0.072	0.059	0,073	0,042	0.055	0.038	0,043	0.038	0,049
	- Recharge to Rose Creek alluvial aquifer	.I	0,020	0.020	0.020	0,020	0.020	0.020	0,020	0.020	0.020	0,020	0.020	0.020
loca Challouist souid	= Change in storage (to smooth leakage from Rose Ck Div.)		-0.071	0,068	0.000	-0.026	-0.065	-0.068	0,049	0.055	0,024	0.048	-0.012	0.000
tose Ck alluvial aquifer	Recharge from North Fork (estimated)	1	0.040	0,040	0.040	0.040	0,040	0.040	0,040	0.040	0.040	0,040	0.040	0,040
	+ recharge from South Fork (estimated)	I	0.039	0.039	0,039	0.039	0.039	0.039	0.039	0,039	0.039	0.039	0.039	0,039
	+ recharge from Rose Creek Tailings Facility (estimated)	 	0.020	0.020	0.020	0,020	0.020	0.020	0.020	0.020	0,020	0.020	0.020	0.020
	- discharge at toe of CV Dam (remainder of flow at X13)	I	0,007	0.007	0,007	0.007	0.007	0,007	0.007	0,007	0.007	0.007	0.007	0.007
	- discharge to Old Faro Creek Channel below CVD	Į	0.012	0.012	0.012	0,012	0.012	0.012	0,012	0.012	0.012	0.012	0.012	0,012
lose Creek at X14	= groundwater flow in aquifer below X14	II	0.080	0.080	0.080	0.080	0,080	0.080	0,080	0.080	0.080	0,080	0.080	0,080
MAR CIECK ALA 14	Total estimated surface flow (sum of component flowlines) Total observed surface flow	II	0.412	2.814	0.234	2.920	0.691	2.549	0.367	3.928	0.455	4.382	0,640	1.763
	Surface now + groundwater in underlying aquifer	· · · · · · · · · · · · · · · · · · ·	0.000	2.264	0,560	3.008					0.350	4.550	0.890	
	I) Net pumpage from Zone II Pit to Main Pit was estimated by water b	E I	0.492	2.894	0.314	3.000	0.771	2.629	0.447	4.008	0.535	4,462	0.720	1.843

2) Influence of storage in Fresh Water Reservoir and the Rose Ck alluvium aquifer is simplified. Also, some of the mill supply was obtained from North Fork flows diverted into Pumphouse Reservoir. This diversion was not directly accounted for in this spreadsheet

3) The measured and estimated outflows from the Rose Ck Tailings Facility exceeded the estimated inflows to this facility by an average of 95 L/s over the complete simulation period. This missing inflow was assumed to originate as ditch leakage from the Rose Creek Diversion Channel. As a first approximation, this ditch leakage was assumed to not exhibit a seasonal pattern.

4) The Gartner Lee groundwater investigation (2001) estimated the groundwater flux in the Rose Creek alluvium aquifer to be about 79 L/s upstream of the tailings facility. For the purpose of this water balance,

this groundwater was assumed to originate roughly half from the North Fork and half from the South Fork. The tailings facility itself was estimated to contribute 20 L/s to the underlying aquifer, largely from the the Intermediate and Polishing Ponds (under shutdown conditions). The aquifer was estimated to discharge approximately 12 L/s to Rose Creek between the CVD and Station X14.

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5) Some problems exist with observed X14 record. In early record, spot measurements are about 80% of computed flows. Also, erroneous peaks due to ice effects have not been removed.

22307-vol2-tables11,12.xls



Faro Mine Site for the years 1995 to 2001 as filed with the Yukon Territory Water Board.

Streamflow Record - Vangorda Creek

A datalogger and pressure transducer were installed at location V8 in lower Vangorda Creek (Figure 3) in 1999. DIAND has operated a seasonal flow gauging station in lower Vangorda Creek in previous years. The datalogger recordings were used exclusively for this study.

A stage discharge curve was developed for location V8 based on available spot flow measurements. The curve was used to convert the pressure transducer readings (height of water) to flow rates. The datalogger records the pressure data at 30-minute intervals. These raw pressure data were converted to equivalent flow rates and then averaged to compute a record of daily average flow rates. The data record contains gaps related to readings that are unusable due to unknown effects.

The daily flow rates at location V8 were assessed for anomalous readings and, specifically for artificial effects of ice. This was accomplished by overlaying the streamflow record for location V8 with the streamflow record for the Ross River at Ross River. These two streams exhibit similar seasonal flow patterns, as evidenced by a correlation between the coincidental daily flows at V8 and Ross River.

The overlay of data does not display any discrepancies in the record for location V8 for the periods where usable data was collected.

Because of the substantial gaps in the data record for location V8, the streamflow record for location R7 was subsequently used as the primary reference for flows in the Vangorda Creek catchment.

Water Balance - Vangorda Creek

The water balance for Vangorda Creek at location V8 incorporates all of the known source terms from the mine site. The interactions between source terms to Vangorda Creek at location V8 are illustrated on Figure 21. The resulting water balance is listed in Table 13. Some general comments that apply to development of the water balance are as follows:

- 1. Two seasonal periods (summer and winter) were selected in order to identify significant seasonal trends and in order to provide a flexible model for future sensitivity analyses.
- 2. The water balance was constructed beginning in winter 1997/1998 (Time Step 5 of the Rose Creek water balance) to be representative of existing conditions during the care and maintenance phase.

A stage discharge curve was used to convert the pressure transducer readings to flow rates

The daily flow rates were asses for anomalous readings and for the effects of ice

Comments that apply to the development of the Vangorda Creek water balance

Table 13. Water Balance Calculations for Vangorda Creek

					Ç					
					rage Disch					
		Time Step	5	6	7	8	9	10	11	
		Season	W	S	W	S	W	s	[W	
		From	Nov-97	May-98	Nov-98	May-99	Nov-99	May-00	Nov-00	
		То	Apr-98	Oct-98	Apr-99	Oct-99	Apr-00	Oct-00	30-Apr	
Measured Flow Stream			-				_			
Flows pumped from Little Creek Da			0	38	0	44	0	53	0	
Flows siphoned from Sheep Pad Po			0	0	0	20	0	30	0	
Approximate total inflow to Vangero	a Pit		40	198	40	272	40	860	40	
		Ne deve	181	184	181		400			
		No. days	101	104	101	184	182	184	181	
				A	verage Dis	charge for	period (m ³)	(c)·		
Catchment	Component	Time Step	5	6	1 7	8	9	10	11	Average
		Season	ŵ	Š	Ŵ	s	w	s	Ŵ	of 7
		From	Nov-97	May-98	Nov-98	May-99	Nov-99	May-00	Nov-00	Periods
		To	Apr-98	Oc1-98	Apr-99	Oct-99	Apr-00	Oct-00	Apr-01	Fenous
North Fork above R7 (Reference)	Local runoff (6)	l	0.298	1.113	0.224	1.829	0.255	2.010	0.324	0,865
Vangorda Creek Diversion Channel		<u> </u>	0.230	0.266	0.054	0.437	0.061	0.480	0.324	0.865
	- Leakage to Vangorda Pit		0.001	0.004	0.001	0.003	0.001	0.480	0.077	0.007
	+ Recovered from pit cachment (partial 10)		0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.007
	= Flows diverted around Vangorda Pit	í –	0.070	0.262	0.052	0.434	0.060	0,445	0.000	0.000
Vangorda NE Interceptor Ditch	Local runoff (23)		0.0016	0.0061	0.0012	0.0101	0.0014	0.0111	0.0018	0.0048
	- Leakage to Vangorda Pit	1	0.0000	0.0001	0.0000	0.0001	0.0000	0.0012	0.0000	0.0002
	= Flows diverted to Shrimp Creek		0.0016	0.0060	0.0012	0.0100	0.0014	0.0099	0.0018	0.0002
Vangorda Pit	Local runoff (24)		0.002	0.006	0.001	0,010	0.001	0.010	0.002	0.0045
	+ Seepage from Vangorda Ck Diversion		0,001	0.004	0.001	0.003	0.001	0.035	0.001	0.0066
	+ Seepage from Till Dump catchment		0.0001	0.0003	0.0001	0.0002	0,0001	0.0023	0.0001	0.0004
	+ Seepage from Vangorda NE Interceptor		0.0000	0.0001	0.0000	0.0001	0.0000	0.0012	0.0000	0.0002
	+ Siphoned from Sheep Pad Pond		0.0000	0.0000	0,0000	0.0013	0.0000	0,0019	0.0000	0.0004
	+ Pumped from Little Creek Dam		0,0000	0,0024	0.0000	0.0028	0.0000	0.0033	0.0000	0.0012
	= Change in storage of pit		0.003	0.012	0.003	0.017	0.003	0.054	0.003	0.0134
Vangorda Dump & Little Creek Dam	Local runoff (25+26)		0.001	0.005	0.001	0,008	0.001	0.009	0.001	0.0038
	 Pumped to Vangorda Pit 		0.0000	0.0024	0.0000	0.0028	0.0000	0.0033	0.0000	0.0012
	 Seepage to Vangorda/Shrimp Creeks 		0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
	 Seepage from LCD to Vangorda Ck 		0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
	= Unaccounted loss (storage in voids?)		0.0003	0.0015	0.0000	0.0043	0.0001	0.0045	0.0004	0.0016
Grum & Till Dump Interceptor Ditch	Local runoff (27+29)		0.008	0.030	0.006	0.049	0,007	0.054	0.009	0.023
	 Seepage to Vangorda Pit 		0.0001	0.0003	0.0001	0.0002	0.0001	0.0023	0.0001	0.0004
	- Siphoned to Vangorda Pit		0.0000	0.0000	0.0000	0.0013	0.0000	0.0019	0.0000	0.0004
	Seepage to Grum Pit		0,0005	0,0018	0.0004	0.0030	0.0004	0.0033	0.0005	0.0014
Grum Pil	= Flows diverted to Vangorda Creek		0.007	0.028	0.006	0.045	0,006	0.047	0.008	0.021
Grum Pa	Local runoff (28)		0.002	0.009	0.002	0.015	0.002	0.017	0.003	0,007
	 + Seepage from Grum Interceptor Ditch = Change in storage of pit 		0.0005	0.0018	0.0004	0.0030	0.0004	0.0033	0.0005	0.0014
Grum Dump	To West Fork Vangorda Ck (34a)		0.003	0.0011	0.002	0.018	0.003	0.020	0.003	0.0086
Gram Damp	+ To Vangorda Ck (30+31a+31b)		0,0006	0.0023	0,0005	0.0038 0.038	0,0005	0.0042	0.0007	0.0018
	= Total yield from Grum Dump		0.007	0.025	0.005	0.036	0.005 0.006	0.042	0.007	0.018
Shrimp Creek	Local runoff (32)		0.007	0.020	0.003			0.046	0.007	0.020
	+ Flows from Vangorda NE Interceptor		0.023	0.006	0.001	0.141 0.010	0.020 0.001	0.155	0.025	0.067
	+ Seepage from Vangorda Dump		0.002	0.0005	0.0005	0.0005	0.0005	0.010	0.002 0.0005	0.005
	= Flow to Vangorda Creek		0.025	0.092	0.0003	0.0003	0.0005	0,165	0.0005	0.0005 0.072
West Fork Vangorda Creek	Local runoff (33+34b)		0.066	0.248	0.050	0,408	0.022	0.448	0.027	0,072
	+ Runoff from a portion of Grum Dump		0.0006	0.0023	0.0005	0.0038	0.0005	0.0042	0.0072	0.0018
	= Flow to Vangorda Creek		0.067	0.251	0.050	0.412	0.057	0.452	0.0007	0.195
Lower Vangorda Ck Catchment	Local runoff (31c+35+36)		0.020	0.075	0.015	0.123	0.017	0.135	0.073	0.058
-	+ Runoff from West Fork Vangorda Ck		0.067	0.251	0.050	0.412	0.057	0.452	0.073	0.195
	+ Runoff from majority of Grum Dump		0,006	0.023	0.005	0.038	0.005	0.042	0.007	0.018
	+ Outflow from Grum Interceptor Ditch		0.007	0.028	0,006	0.045	0.006	0.047	0.008	0.021
	+ Outline from Vanoorda Ck Diversion		0.070	0.262	0.052	0.424	0.060	0.445	0.077	

Notes:

0.070

0.025

0.197

 Total seepage into Vangorda Pit was estimated by subtracting i) an estimate of local runoff, ii) measured LCD flows and iii) measured Sheep Pad Pond diversions from measured annual accumulation of water in pit.
 Total seepage into Vangorda Pit was apportioned to three sources (Vangorda Creek Diversion, Vangorda NE Interceptor and Till Dump catchment) 2) Follar seepage into Varigorda Pix was apportanted to intree sources (Varigorda Creek Diversion, Varigorda Pix Interceptor and Fill Dump claccording to their respective estimated long-term yields.
 3) Leakages from LCD and Varigorda Dump Collection Ditch are crude estimates not based on data.
 4) The volume of water pumped from the LCD is significantly less than the estimated yield of the Varigorda Dump catchment. The difference may be altibuted to the filling of void space within the Varigorda Dump and/or the dump results in enhanced evaporation.

0.262 0.0005

0.092

0.731

0.052 0.0005

0.019

0.148

0.434

0.151

1.203

0.060 0.0005

0.022

0.168

.

0.445

0.0005

1.287

0.077

0.0005

0.027

0.214

0.200

0.0005

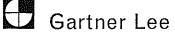
0.072 0.564

+ Outflow from Vangorda Ck Diversion + Seepage from Little Creek Dam

+ Outflow from Shrimp Creek

= Total flow at V8

5) Seepage from Grum Interceptor Ditch assumed to equal 10% of yield from Subcatchment 27.





- 3. Flows for ungauged subcatchment areas were extrapolated from the verified R7 streamflow record in proportion to the catchment areas and mean annual runoffs listed in Table 9.
- 4. Seepage losses from the Vangorda Creek Diversion Flume to the Vangorda Pit are estimated based on the observed inflow rates into the pit.
- 5. Volumes extracted from the Sheep Pad Pond to the Vangorda pit are taken from the Annual Environmental Reports for the Vangorda Plateau mine site.
- 6. Seepage rates from Little Creek Dam and from the Vangorda Rock Dump to Shrimp and Vangorda Creeks are estimated based on judgement only.

2.5.2.5 Water Balance Study Results

Observations from the 2002 water balance for the North Fork of Rose Creek, the mainstem of Rose Creek, and for the Vangorda Creek The 2002 water balance for the North Fork of Rose Creek provides the following observations for the period from November 1995 to April, 2001.

• An estimated 83% of the flow in the North Fork of Rose Creek originates from natural runoff upstream of the mine site.

The 2002 water balance for the mainstem of Rose Creek provides the following observations for the period from November 1995 to April 2001:

• Of the flow in Rose Creek below the tailings facility, an average of 55% originated from the North Fork of Rose Creek, 25% originated from the South Fork (drainage area above the tailings facility) and 9% originated from effluent released from the Cross Valley Pond (toe seepage and surface outflow).

The 2002 water balance for Vangorda Creek provides the following observations for the period from November 1997 to April 2001:

- The flow in lower Vangorda Creek originates, on average, 34% from the West Fork and 66% from the main stem (drainage including most mine facilities).
- Of the flow in the main stem, an average 54% originates from natural runoff in Vangorda Creek unaffected by mine activities (drainage area upstream of the mine site).

2.5.3 HYDROGEOLOGY

2.5.3.1 Historical Hydrogeological Changes

Mining activities have affected the local groundwater flow in several ways, including the following:



<i>Mining activities that have affected the local groundwater flow</i>	 Interception of groundwater in open pits. Increased permeability in the rock mass through blasting of open pit walls. Interception of groundwater in diversion ditches. Alterations to the Rose Valley aquifer from development and operation of the Rose Creek Tailings Impoundments. Increased infiltration through unvegetated and poorly drained areas (e.g. free dumps) as well as leakage from diversions.
The Faro Main Pit groundwater interception	The Faro Main Pit was developed on the north side of the Rose Creek valley. Much of the area was covered by a thin layer of compacted till over bedrock. The pit was excavated to a depth of approximately 365 metres below the original ground surface at its deepest point and now intercepts both shallow groundwater flow at the soil/bedrock interface and deeper groundwater flow in faults and fractures. Leakage from the Faro Creek Diversion Ditch into the pit via the northeast pit wall is known to contribute to groundwater inflows. Groundwater inflow rates are not specifically monitored and separated from surface inflows. However, mine dewatering pumping records indicate pumping rates between 40 and 55 L/s were required to keep the pit drained from 1986 to 1990 (RGC 1996).
The Faro Zone 2 Pit groundwater interception	The Faro Zone II Pit similarly intercepts both shallow and deeper groundwater flow, although at a smaller scale than the Faro Main Pit. The presence of substantial faulting in the southern area of the Main pit creates the possibility for subsurface flow of water from the Main Pit into the Zone II Pit. Annual monitoring of volumes dewatered for the Zone II Pit, as reported in annual environmental reports, indicates that seepage from the Main Pit did not increase substantially with an increase in the water level in the Main Pit. The groundwater inflows into the Zone II Pit were estimated at 13 L/s during mine operations (RGC 1996).
Vangorda Pit groundwater interception	The Vangorda Pit is located on a south side of Vangorda Creek. The overburden encountered consisted primarily of compacted glacial till up to approximately 30 metres in thickness. Groundwater inflow into the Vangorda Pit was estimated at 0.14 L/s during mine operations (RGC 1996). A net inflow of groundwater into the Vangorda Pit was also suggested by a geochemical study conducted in 2000 (SRK, 2000b) that indicated an unidentified source of alkalinity that could be attributed to groundwater influx.
Grum Pit groundwater interception	The Grum Pit is located on the north side of Vangorda Creek and was developed in a small depression in the hillside. A small lake (Doal Lake) was present prior to the development of the pit. The surficial deposits at the Grum Pit were thicker than at the other pits. A north-south trending bedrock valley was intersected in the southeast corner of the pit that was filled with approximately 100 m of glacial till over a basal layer of sand and gravel. This aquifer was dewatered by pumping wells during mine operations prior to 1997 and has subsequently flowed directly into the Grum Pit. The effect of the interception of this flow is also observed in changes observed in the degree of saturation of surface soils downgradient of the Grum Pit in the Grum Creek area. Prior to development of the Grum Pit, this area was observed to be largely saturated near surface with



some test pits reported as filling with water during excavation whereas the area is currently observed to be drier near surface (Anvil Range, pers. comm.).

Other effects of open pits may relate to the increased permeability (compared to natural bedrock) of blasted rock walls which may allow increased passage of groundwater.

Diversion ditches may alter pre-existing flows or result in groundwater recharge Diversion ditches that are seated in bedrock, or that intersect other shallow groundwater zones, will alter the pre-existing flow regime. For example, the Rose Creek Diversion Canal is interpreted to largely intercept and re-direct shallow groundwater flow from the south side of the Rose Creek Valley that previously flowed into the valley aquifer (GLL 2002c).

Alternately, diversion ditches may result in groundwater recharge (through ditch leakage). For example, the Faro Creek diversion ditch is known to leak water into the shallow aquifer above the Faro Main Pit.

A confining surface layer, additional groundwater recharge and surface ponds have effected the local groundwater flow Prior to development of the tailings impoundments, the local Rose Creek Valley hosted an unconfined aquifer that produced an estimated 3,000 to 4,000 m³ of groundwater per day (GLL 2002c). Development of the tailings impoundments introduced a confining surface layer (tailings), additional groundwater recharge (tailings slurry water) and surface ponds that have had a substantial effect on local groundwater flow. An interpretation and numerical model of the existing groundwater flow regime are described in GLL 2002c.

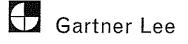
Some rock dumps may promote increased infiltration (groundwater recharge) compared to the original ground conditions where free dump piles or other lose materials are present.

Rock dumps may Alternately, hard packed and compacted surfaces of rock dumps may restrict groundwater recharge and promote increased surface runoff compared to the original ground conditions.

2.5.3.2 Regional Hydrogeology

Predicting groundwater flow through the rock in the Anvil Range mine sites is difficult The area surrounding the Anvil Range Mine Complex (Figure 3) is underlain by metamorphic and volcanic bedrock. The Proterozoic and Paleozoic schists and phyllites were intruded by the Anvil Batholith, which consists of granite, granodiorite and quartz monzonite. The crystalline nature of these rocks typically creates a very low primary porosity (0-10%), therefore and groundwater flow through the bedrock likely occurs along planes of weakness or deformation, such as fractures, faults or shear zones. Predicting the occurrence of groundwater and its flow direction in this type of rock is difficult at best, and there is little information available for the Anvil District.

Bedrock is overlain by various types of surficial deposits (or overburden) consisting primarily of glacial till, glaciofluvial sediments and alluvium. In topographically elevated areas, these surficial deposits are thin and irregularly



distributed. Surficial deposits are generally thickest in the valley bottoms, although significant thicknesses of till have been documented in the uplands of the Vangorda Plateau.

- Groundwater flow path, flow direction and recharge The presence, characteristics and thickness of surficial deposits are likely to be the primary control to the occurrence and flow of groundwater in the study area. Known groundwater flow occurs primarily in the overburden, or through the upper most weathered surface of the bedrock. Flow direction is controlled mainly by surficial and bedrock topography. Recharge occurs via infiltration of precipitation and the groundwater migrates downward, following topography to discharge zones into local creeks or shallow depressions. The bedrock valley sides act as recharge sites and groundwater flow progresses to the valley floors as a discharge zone. Recharge to valley aquifers may also occur locally through the beds of streams occupying the valley.
- Valley aquifers Large glaciated valleys, including the Pelly River, Rose Creek, and Blind Creek valleys, have been filled with significant thickness of glacial sediments. Where these deposits are primarily glaciofluvial sands and gravel, they represent relatively high yield aquifers. Valley aquifers are usually unconfined, with shallow depths to water and significant groundwater yields. However, if confining layers, such as glacial till or other fine-grained deposits extend across the valley floor and partially up the valley sides, confined aquifers, with significant hydraulic heads may be encountered.

2.5.4 SURFACE WATER QUALITY

2.5.4.1 Overview

The intent of this description of surface water quality is to describe the water quality conditions from 1987 - 2002. The water quality baseline for the reference areas, discharge points and receiving waters are described for the historic period of record (1987 - 1998) as narrative summaries taken from the 2002 Baseline Report. Data for the 1998-2002 period are then presented to describe the existing environmental conditions which form the baseline for the current assessment.

Water quality summaries were based only on measurable data points Interpretation of water quality data included a number of samples which had no detectable concentrations and was hampered by changes in analytical methodology and detection limit over the period of record. Although suitable statistical methods exist to account for "censored" data (those values which are below the detection limit), there is no acceptable means for statistical interpretation where the detection limit has changed over the period of record. These factors prevented statistical comparisons of data over time or between sites. Comparisons therefore relied on qualitative comparisons between sites and the weight of evidence guiding conclusions. Water quality summaries were based only on measurable data points. For all cases where "Non detects" were present, the data summaries recorded the total number of samples and the



Water quality

numbers of samples which contained detectable quantities. "Non detects" were not included in the statistical summaries.

Interpretation of effects of the mine on surface water quality were guided by a) comparisons between sites and b) comparisons of water quality against CCME (1999) Guidelines for protection of freshwater aquatic life.

Surface water quality at the Faro and Vangorda Plateau mine sites has been

characterized by samples taken at a variety of stations from 1987 to 2002. This

period of record covers mine operation, mine development (Vangorda Plateau)

and closure periods and includes data that reflect a variety of water treatment and management systems at both sites. The water quality conditions for the period

information for 2002 is provided in the annual Environmental Reports required under the existing water licences for the sites: for the Faro Site in GLL 2003a and

Surface water quality for the 1987-2001 period includes data from a total of 29

different stations for the Faro site and 21 for the Vangorda Plateau site. These

1987-2001 is presented in the May 2002 Baseline Report.

for the Vangorda Plateau Site in GLL 2003b.

2.5.4.2 Monitoring Sites

The sampling period covers mine operation, mine development, and mine closure

The surface water quality baseline includes data from 29 different locations for the Faro site and 21 for the Vangorda Plateau site

include reference locations showing no mine influence, effluent streams and seepages within the mine site itself, compliance points for effluent discharge, sites where effluent has mixed with receiving waters immediately off of the site and receiving waters downstream of the mine.

Not all of these monitoring sites provide information that is useful for environmental assessment and, therefore, data from a smaller number of selected sites were used to describe existing water quality conditions. The most important requirements are for:

- Reference water quality for comparison against potentially impacted sites;
- Effluent water quality to assess compliance and to assess loadings to the natural environment; and
- Receiving water quality to assess potential effects on water quality.

The total of 50 water quality sites was therefore reduced to 19 (10 for Faro and 9 for Vangorda Plateau) for the purposes of the environmental assessment. The stations which were omitted describe internal water on the site and specific sources of runoff or seepage. Water quality stations are described in Table 14 and located on Figure 3. A complete listing of water quality data for these locations is provided in Appendix B.

Rose Watershed / Faro Mine Site

Sites that represent reference water quality for the assessment

The number of

sampling sites was reduced to describe

the environmental

baseline

Faro Creek, upstream of the diversion (Site FDU), the North Fork of Rose Creek, upstream of the mine (R7) and Upper Guardhouse Creek (Site W10) receive surface runoff which has had no direct contact with mine activities at the Faro

Station Function	Station I.D.	Station Description				
Faro Site						
Reference - Local Study Area	FDU	Faro Creek - Upstream of Diversion				
	W10	Upper Guardhouse Creek				
· · · · · · · · · · · · · · · · · · ·	R7	North Fork Rose Creek - upstream of Mine				
Mine Impact	X5	Cross Valley Pond Outflow				
	X13	Cross Valley Dam Seepage				
Receiver - Local Study Area	X14/R2	Rose Creek - downstream of diversion channel				
	R3	Rose Creek - mid way to Anvil Creek				
	R4	Rose Creek at Anvil Creek				
Reference - Regional Study Area	R6	Anvil Creek - upstream of confluence with Rose Creek				
Receiver - Regional Study Area	R5	Anvil Creek - downstream of confluence with Rose Creek				
Vangorda Plateau Site						
Reference - Local and Regional Study Area	V1	Vangorda Creek above mine				
	V4	Shrimp Creek				
Mine Impact	V25BSP	Vangorda Creek - below Sheep Pad Pond				
	V2	Grum Creek				
	V6A	AEX Creek				
	V27	Vangorda Creek, Main Stem, downstream of mine				
Receiver - Local Study Area	VGMain	Vangorda Creek, above confluence with West Stem				
· · · · · · · · · · · · · · · · · · ·	V5	West Stem Vangorda Creek				
Receiver - Regional Study Area	V8	Vangorda Creek at Faro				



site. They represent reference water quality for purposes of this environmental assessment.

Water from sites that have had contact with mining activities Water which has had contact with mining activities is treated and discharged from the site via outflow from the Cross Valley Pond (Site X5) or seepage from the Cross Valley Dam (X13). These two water streams mix with water from the Rose Creek Diversion Channel (which contains diverted clean water and water which may have interacted with mine activities) and are sampled at Sites X14 and R2, to represent the net effect of the Faro Site on water quality at the boundary of the local study area.

Receiving water quality sampling sites Receiving water quality was sampled in Rose Creek at Site R3, midway to Anvil Creek, and at R4, where Rose Creek meets Anvil Creek, the downstream boundary of the Regional Study Area. Effects on Anvil Creek were determined by comparison of water quality upstream of the confluence with Rose Creek (R6) with that after mixing of Anvil and Rose Creeks (R5).

Vangorda Watershed / Mine Site

of the assessment.

Sites that represent reference water quality for the assessment

Water from sites that have had contact with mining activities Water from the mine site, prior to discharge to off site receiving waters was characterized by measurements made at the outflow from the Sheep Pad Pond (inclusive of treated mine water, V25BSP), Grum Creek (site runoff, V2) and AEX Creek (site runoff, V6A). Water quality in Vangorda Creek upstream of the confluence with Shrimp Creek (V27) represents the net receiver of all mine activities, prior to mixing with reference water.

Vangorda Creek upstream of the mine site (Site V1) and Shrimp Creek (Site V4)

both convey surface runoff which has had no direct contact with mine activities

at the Vangorda Plateau site. They represent reference water quality for purposes

Receiving water quality sites Receiving water quality for the local study area was assessed using data from Vangorda Creek, upstream of the confluence with the West Fork (Station VGMain) and from the West Fork, upstream of its confluence with Vangorda Creek (V5). These two sites defined the downstream boundary of the Local Study Area. Water quality at the downstream boundary of the Regional Study Area was characterized by measurements made at the mouth of Vangorda Creek, upstream of its confluence with Pelly River (V8).

2.5.4.3 Rose Watershed Surface Water Quality

Reference Water Quality

Alkalinity, sulphate and zinc concentrations in the Faro area during mining operations

Reference stream water quality in the Faro area during the period of mine operations was consistently neutral to alkaline (pH 7.5 - 8.0) with low sulphate concentrations (<6 mg/L). Total zinc concentrations were also low, generally ranging from 0.007 to < 0.005 mg/L. Zinc, sulphate and alkalinity levels were



higher in the North Fork of Rose Creek than in Faro and Guardhouse Creeks during the period of mine operations.

Trace metal concentrations in reference waters indicate mineralized geology, with detectable concentrations of most trace metals (Tables 15 and 16). Trace metal levels in the reference streams for Al, As, Cd, Cr, Cu and Pb generally exceeded CCME (1999) guidelines for protection of aquatic life while levels for Ag, Fe, Hg, Ni and Zn generally did not. A total hardness of 60 mg/L was used for those metals where the CCME guidelines are hardness dependent.

Effluent Water Quality

The discharge of water from the Faro site occurs as seasonal discharge over the Cross Valley Dam (Site X5) or as seepage through the dam (Site X13). The discharge consists of treated pit water and overland runoff from the mine site, which is treated in the Intermediate Pond.

Water quality has been sampled on a regular basis since 1986 Water quality at these sites was sampled on a regular basis starting in 1986. This information was summarized from the "Anvil Range Mine Complex 2002 Baseline Environmental Information. Volume 2" Report (GLL 2002a), but additional details may be found in the annual monitoring reports that are filed with the Yukon Territory Water Board. Prior to 1992, water quality in the Cross Valley Pond was controlled primarily by the characteristics of the settled tailings supernatant from upstream deposition of mill tailings. Zinc and sulphate concentrations averaged 0.24 and 436 mg/L, respectively, and pH ranged from 6.7 to 9.6. Seepage from the pond had lower pH levels (6.1 - 7.8) and Zn levels ranged from 0.01 to 0.167 mg/L. Iron levels in the seepage averaged 2.0 mg/L.

Discharge water quality conditions from 1998 to 2002 showed high levels of Ca (180-217 mg/L, Table 17) as a result of lime treatment upstream. Sulphate levels exceeded those recorded historically (532-582 mg/L). The ponds were effective in settling solids, as TSS levels averaged 4 - 10 mg/L. A pH of 7.3 in the main discharge remained within the slightly alkaline ranges reported historically but was lower than the pH of the reference streams, suggesting some acid generation on site. Zinc concentrations in the Cross Valley Pond seepage were reduced following mine closure. They averaged 0.039 mg/L between 1998 and 2002 (Table 18), approximately 15% of the levels recorded during mine operations. Zinc increased (average = 0.334 mg/L) in the dam discharge during the care and maintenance phase, compared to 0.24 mg/L during operations, likely related to the periodic introduction of a relatively large volume of water pumped from the Faro Main pit beginning in 1998, which was ultimately released to Rose Creek as treated and compliant effluent via location X5.

Receiving Water Quality

Concentrations of Fe and Mn in the mine discharge water were elevated by several orders of magnitude over concentrations in the reference streams and the concentration of zinc at X5 (but not at X13) was elevated by one order of

Site	Parameter	Alk mg/L	Cond u/S	Hardness mg/L	Ca mg/L	NH3-N mg/L	рН	SO4-T mg/L	TSS mg/L
FDU/W10/R7	n	4	2	8	29	9	23	28	19
	Mean	81.5	156	66	19.1	< 0.05	7.82	9.0	5.3
	Medían	79	156	58	16.8	< 0.05	7.97	7.0	3.0

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Table 15. Water Quality at Rose Creek Reference Sites, 1998-2002

Table 16. Trace Metal Concentrations at Faro Reference Sites, 1998-2002

Site			FDU/W	/10/R7		
Parameter	n=	D.L.	#>D.L.	Mean	Median	CCME
Ag	29	0.003	0	< 0.003	< 0.003	0.1
Al	29	0.05	26	0.169	0.140	0.100
As	29	0.001	4	0.027	0.016	0.005
Cd	29	0.001	6	0.006	0.003	0.00001
Co	29	0.001	6	0.007	0.003	
Cr	29	0.005	9	0.021	0.020	0.010
Cu	29	0.001	25	0.015	0.011	0.002
Fe	29	0.01	28	0.328	0.148	0.300
Hg	2	0.0001	0	< 0.0001	< 0.0001	0.0001
Mn	29	0.01	23	0.030	0.020	
Ni	29	0.005	8	0.008	0.005	0.025
Pb	29	0.01	6	0.019	0.018	0.001
V	29	0.005	8	0.015	0.010	
Zn	29	0.01	21	0.032	0.030	0.03

Table 17. Water Quality at Faro Mine Site Discharge Sites, 1998-2002

	Parameter	Ca	NH3-N	pН	SO4	TSS
Site		mg/L	mg/L		mg/L	mg/L
	n	63	60	98	63	63
	Mean	220	0.75	7.25	564	10
	Median	217	0.79	7.30	582	10
X5	n	63	59	40	52	55
	Mean	167	0.73	8.14	480	5
	Median	180	0.79	8.20	532	4

Table 18. Trace Metal Concentrations at Faro Mine Site Discharge Sites, 1998-2002

Site				X13			X5	
Parameter	n=	D.L.	# > D.L.	Mean	Median	#>D.L.	Mean	Median
Ag	63	0.003	10	0.006	0.005	6	0.006	0.005
Al	63	0.05	47	0.241	0.180	52	0.219	0.145
As	63	0.001	19	0.019	0.020	12	0.012	0.009
Cd	63	0.001	10	0.003	0.003	13	0.003	0.002
Co	63	0.001	44	0.016	0.011	35	0.011	0.007
Cr	63	0.005	22	0.051	0.018	22	0.086	0.028
Cu	64	0.001	54	0.038	0.029	56	0.026	0.025
Fe	63	0.01	63	2.117	2.140	61	0.366	0.174
Mn	63	0.01	63	9.695	9.590	63	3.158	3.080
Ni	63	0.005	53	0.018	0.016	44	0.012	0.012
Pb	63	0.01	12	0.039	0.020	9	0.024	0.020
V	64	0.005	18	0.015	0.009	20	0.015	0.007
Zn	64	0.01	46	0.039	0.022	62	0.334	0.320

magnitude (Table 18). For the other metals, concentrations were increased by approximately two-fold over reference levels, with the exception of As and Cd, which were not elevated in the mine discharge waters compared to the reference sites.

On-going metals loadings were high but discharge concentrations were within the Water Licence limits on almost all occasions for all licenced parameters

Comparison of water quality in Rose Creek with that in the discharge water showed dilution and assimilation of mine water in the receiving environment during the baseline period The existing water quality conditions at the discharge therefore reflect ongoing metals loadings to the receiving environment even though discharge concentrations were within the water licence limits on almost all occasions for all licenced parameters. Of most concern are Zn and Ag, because of a combination of high loadings and their relatively high toxicity (see CCME Guidelines in Table 15). High levels of sulphate are also discharged. These serve as a good indicator of mine discharge, but are not toxic. High levels of Fe and Mn are also discharged but these are of lower toxicity.

Water quality downstream of the mine site is influenced by the discharge of treated, compliant effluent from the Cross Valley Dam, seepage from the dam, and by mixing with water from the Rose Creek diversion channel. Prior to 1998, water quality at this site was variable: sulphate ranged from 4 - 762 mg/L, pH from 5.9 to 8.6 and Zn from 0.01 to 0.64 mg/L (average = 0.08).

During the 1998-2002 care and maintenance period, the receiving waters continued to show elevated levels of Ca, sulphate, Zn and other trace metals from the discharge of treated mine water. Comparison of water quality in Rose Creek (Tables 19 and 20) with that in the discharge water (Tables 17 and 18) showed substantial dilution and assimilation of mine water in the receiving environment. Nevertheless, receiving water quality was impaired when compared with CCME Guidelines for protection of aquatic life for Al, As, Cd, Cu, Fe, Pb and Zn at Sites X14 and R2, immediately downstream of the Cross Valley Dam. The area of concern represents approximately 100 m of stream reach immediately downstream of the Cross Valley Dam, which is functioning as a mixing zone. Ammonia levels exceeded concentrations in reference creeks (Table 19) but cool waters (maximum recorded temperature of 12°C) and moderate pH (maximum recorded pH of 8.6) limited the average concentration of the toxic, un-ionized fraction to less than the CCME Guideline of 19 ug/L.

Although metal levels downstream of the mine exceeded CCME Guidelines, some appear to reflect natural mineralization of surface water near the mine. Concentrations of Al, As, Cd, Cr, Cu, and Pb downstream of the mine were the same as, or less than, concentrations at the reference water quality sites that were not influenced by mine drainage (Table 20). Nickel concentrations were elevated above reference levels, but were below CCME guidelines. In summary, receiving water quality contained elevated concentrations of Fe, NH₃, Mn, Zn and SO₄, when compared to reference water quality and CCME Guidelines. No CCME Guidelines exist for sulphate and Mn, as these substances are of low toxicity.

The CCME Guidelines represent water quality conditions that assure indefinite survival of the most sensitive life stages of sensitive aquatic species. Most



exceedances would have occurred during discharge periods and were therefore short-term events. The water quality data do not indicate any conditions which are acutely lethal to aquatic life. This is supported by the acceptable toxicity testing reported in annual reports for the site (i.e. GLL, 2003a).

Regional Study Area Water Quality

The water quality data for the baseline period is limited in its utility for comparisons with other sites

No evidence suggests that the aquatic community in Rose Creek has been impaired by the mine discharge. The RSA downstream of the immediate receiving waters for the Faro site is described by water quality at sites R3 and R4 in Rose Creek. The existing conditions for the RSA are described by comparison of reference water quality in Anvil Creek (R6) with water quality in Anvil Creek downstream of the confluence with Rose Creek (Site R5). No water quality data were collected at these sites during the period of mine operation.

Existing water quality data in the RSA is limited: only four samples were collected for the period 1998 – 2002. This limits their utility for comparisons with other sites. Ca and SO₄ concentrations were elevated at the mouth of Rose Creek in response to mine water discharge (Table 21). Ca concentrations were double those at reference sites and SO₄ levels were higher by more than one order of magnitude. Total Suspended Solids and ammonia concentrations had decreased to background at this point.

Concentrations of Zn remained at levels of 0.05 mg/L at the mouth of Rose Creek and exceeded both reference levels and the CCME Guideline by a factor of two (Table 22). Mn concentrations declined by a factor of three along the length of Rose Creek, although they remained one order of magnitude higher than reference levels. There is no CCME Guideline for Mn and it has very low toxicity. Fe concentrations declined to background levels along Rose Creek.

In summary, at Site R4 existing water quality conditions are distinguished by elevated levels of Ca, SO_4 , Zn and Mn. Of these, Zn is the only pollutant of potential concern, based on comparison with the CCME Guideline. There is no evidence, however, to suggest that the aquatic community in Rose Creek has been impaired by the mine discharge as described in existing information for the Rose Creek aquatic environment (Section 2.6).

Anvil Creek, immediately downstream of its confluence with Rose Creek, marks the downstream extent of the Regional Study Area. Upstream of Rose Creek, Anvil Creek is characterized by moderate levels of Ca and SO₄ (Table 23), indicating a more alkaline system than the reference areas of Rose Creek. Metal concentrations (Table 24) are similar to those in the Rose Creek reference areas (Table 16). Downstream of the confluence, Mn concentrations are greater than background as a result of the inflow of Rose Creek. This is the only measurable response to the Faro Mine Site at the edge of the Regional Study Area. All other water quality indicators of the Faro Mine discharge were not measurably different from reference water quality at this point.

Parameter	Ca	NH3-N	pН	SO4	TSS
	mg/L	mg/L		mg/L	mg/L
n	68	31	48	64	56
Mean	64	0.21	7.71	121	6
Median	60	0.13	7.83	100	4

Table 19. Water Quality in Rose Creek Local Study Area (Station X14/R2), 1998-2002

 Table 20. Trace Metal Concentrations in Rose Creek Local Study Area (Station X14/R2), 1998-2002

Parameter	n	D.L.	# > D.L.	Mean	Median	CCME	Reference
Ag	68	0.003	5	0.006	0.005	0.1	< 0.003
Al	68	0.050	55	0.181	0.140	0.100	0.140
As	68	0.001	9	0.011	0.010	0.005	0.016
Cd	68	0.000	8	0.003	0.002	0.00001	0.003
Co	68	0.001	16	0.012	0.007		0.003
Cr	68	0.005	30	0.030	0.009	0.010	0.020
Cu	55	0.001	38	0.014	0.011	0.002	0.011
Fe	68	0.010	68	0.431	0.346	0.300	0.148
Mn	68	0.010	68	1.090	0.858		0.020
Ni	68	0.005	34	0.012	0.009	0.025	0.005
Pb	68	0.010	16	0.020	0.015	0.001	0.018
v	68	0.005	20	0.013	0.008		0.010
Zn	68	0.010	68	0.080	0.060	0.03	0.030

Table 21. Water Quality in Rose Creek, 1998-2002

	Parameter	Ca	NH3-N	pН	SO4	TSS
Site		mg/L	mg/L		mg/L	mg/L
R3	n	4	4	4	4	4
	Mean	44.9	0.09	8.11	59	2
	Median	47.4	0.09	8.12	56	2
R4	n	4	4	4	4	4
	Mean	57.5	<0.05	8.32	104	2
	Median	52.0	< 0.05	8.32	93	3

Site			R	3				R4		
Parameter	n=	D.L.	#> D.L.	Mean	Median	# > D.L.	Mean	Median	CCME	Reference
Ag	4	0.003	0	< 0.003	< 0.003	1	0.001	0.001	0.1	< 0.003
Al	4	0.05	4	0.081	0.067	4	0.119	0.093	0.100	0.140
As	4	0.001	0	< 0.003	< 0.003	0	< 0.001	< 0.001	0.005	0.016
Cd	4	0.001	1	0.001	0.001	2	0.001	0.001	0.00001	0.003
Co	4	0.001	3	0.002	0.001	0	< 0.001	< 0.001		0.003
Cr	4	0.005	1	0.058	0.058	2	0.122	0.122	0.010	0.020
Cu	4	0.001	4	0.017	0.011	4	0.022	0.025	0.002	0.011
Fe	4	0.01	4	0.228	0.237	4	0.133	0.169	0.300	0.148
Mn	4	0.01	4	0.505	0.521	4	0.274	0.263		0.020
Ni	4	0.005	2	0.006	0.006	3	0.008	0.008	0.025	0.005
Pb	4	0.01	1	0.020	0.020	1	0.003	0.003	0.001	0.018
V	4	0.005	2	0.004	0.004	1	0.001	0.001		0.010
Zn	4	0.01	4	0.064	0.043	4	0.066	0.050	0.03	0.030

	Parameter	Ca	NH3-N	pН	SO4	TSS
Site		mg/L	mg/L		mg/L	mg/L
R5	n=	4	4	4	4	4
	Mean	38	< 0.05	8.36	20	3
	Median	37	< 0.05	8.36	19	3
R6	n=	4	4	4	4	4
	Mean	37	< 0.05	8.15	15	2
	Median	36	<0.05	8.39	17	2

Table 23. Water Quality in Anvil Creek, 1998-2002

Table 24. Trace Metal Concentrations in Anvil Creek, 1998-2002

Site				R5			R6	
Parameter	n=	D.L.	# > D.L.	Mean	Median	#>D.L.	Mean	Median
Ag	4	0.003	0	< 0.003	< 0.003	1	0.001	0.001
Al	4	0.05	4	0.080	0.080	4	0.095	0.096
As	4	0.001	0	< 0.001	< 0.001	I	0.003	0.003
Cd	4	0.001	0	< 0.001	< 0.001	1	0.002	0.002
Co	4	0.001	1	0.001	0.001	1	0.002	0.002
Сг	4	0.005	2	0.012	0.012	2	0.026	0.026
Cu	4	0.001	4	0.014	0.009	4	0.016	0.011
Fe	4	0.01	4	0.156	0.114	4	0.180	0.128
Mn	4	0.01	4	0.043	0.046	3	0.012	0.013
Ni	4	0.005	4	0.004	0.003	3	0.003	0.003
Pb	4	0.01	0	< 0.01	<0.01	1	0.030	0.030
v	4	0.005	1	0.001	0.001	1	0.001	0.001
Zn	4	0.01	4	0.027	0.015	4	0.023	0.015



Rose Watershed Surface Water Quality Summary

The existing water quality for the Faro Mine Site was described by:

Summary of the Faro Mine Site water quality baseline.

- Alkaline conditions, low solids and concentrations of trace metals (except for Zn and Hg) which exceeded CCME guidelines in reference waters isolated from mine influence;
- Discharge of mine waters from Cross Valley Pond which contained Ca, Zn, SO₄, Fe, Mn at concentrations which were several orders of magnitude above reference levels and of trace metals (except for As and Cd) which exceeded reference levels by a factor of two;
- Water quality in Rose Creek immediately downstream of the Cross Valley Pond discharge which reflected discharge of high levels of Fe, NH₃, Mn, Zn and SO₄ from the mine;
- Assimilation of all mine influences except for Ca, Mn and Zn in Rose Creek upstream of Anvil Creek; and
- Mn as the only measurable mine influence in Anvil Creek downstream of its confluence with Rose Creek.

These conditions describe the existing water quality against which the proposed project activities (Project Description, Volume I) have been assessed for the 2004 -2008 time period (Environmental Effects Assessment, Volume III).

2.5.4.4 Vangorda Watershed Surface Water Quality

Reference Water Quality

Alkalinity, sulphate and zinc concentrations in Vangorda and Shrimp Creeks during mine operations.	Reference stream water quality in Vangorda and Shrimp Creeks during the period of mine operations was consistently neutral to alkaline (pH 6.7 to 8.6). Sulphate concentrations were lower at location V1 in upper Vangorda Creek (1-26 mg/L) than at location V4 in Shrimp Creek (7-134 mg/L). This has been attributed to the presence of different rock types in the respective drainage areas (Gartner Lee 2003b). Total zinc concentrations generally ranged from 0.08 to <0.002 mg/L.
1998-2002 water quality.	Reference stream water quality for 1998-2002 was also slightly alkaline (pH 8.04) and of low to moderate hardness (Ca = 19 mg/L, conductivity = 156 uS and total hardness = 62 mg/L). Ammonia levels were not detectable, sulphate was low and the stream waters were clear, with total suspended solids levels of 2 mg/L. Reference site water quality data are provided in Table 25.
concentrations.	Trace metal concentrations in reference waters indicate mineralized geology, with detectable concentrations of most trace metals (Table 26). Trace metal levels in the reference streams for Al, As, Cd, Cr, Cu, Fe and Pb generally exceeded CCME (1999) guidelines for protection of aquatic life while levels for Ag, Ni and Zn generally did not. A total hardness of 60 mg/L was used for those metals where the CCME guidelines are hardness dependent.

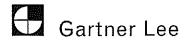
	Parameter	Ca	Cond	Hardness	NH3-N	pН	SO4-T	TSS
Site		mg/L	u/S	mg/L	mg/L		mg/L	mg/L
V1/V4	n=	30	2	28	17	23	29	15
	Mean	38	156	154	< 0.05	7.83	29	5
	Median	19	156	62	< 0.05	8.04	14	2

 Table 26. Trace Metal Concentrations at Vangorda Creek Reference sites, 1998-2002

Site			V1.	/V4		
Parameter	n=	D.L.	# > D.L.	Mean	Median	CCME
Ag	30	0.003	2	0.003	0.003	0.1
Al	30	0.05	27	0.217	0.150	0.100
As	30	0.001	5	0.015	0.019	0.005
Cd	30	0.001	9	0.003	0.001	0.00001
Co	30	0.001	9	0.011	0.006	
Cr	30	0.005	14	0.079	0.016	0.010
Cu	30	0.001	28	0.023	0.018	0.002
Fe	30	0.01	29	0.645	0.309	0.300
Mn	30	0.01	21	0.038	0.030	
Ni	30	0.005	15	0.009	0.008	0.025
Pb	30	0.01	8	0.524	0.014	0.001
V	30	0.005	5	0.009	0.008	
Zn	27	0.01	23	0.037	0.020	0.03

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Mine Runoff and Effluent

Mine runoff water and effluent from the Vangorda Plateau enters Vangorda Creek at three locations.

Mine runoff water and effluent from the Vangorda Plateau enter the receiving water, Vangorda Creek, at three locations:

- 1. Location V25BSP is the outlet of the Grum Interceptor Ditch, which includes periodic or seasonal release of effluent from the Grum/Vangorda water treatment plant. There is typically no flow at this location in the winter season.
- 2. Location V2 is the outlet of Grum Creek that includes runoff from the Grum rock dump.
- 3. Location V6A is the outlet of AEX Creek that includes runoff from the ore transfer pad.

Water quality at these three sites was sampled on a regular basis starting in 1996, 1988 and 1989, respectively. It is summarized from the "Anvil Range Mine Complex 2002 Baseline Environmental Information. Volume 2" Report (GLL 2002a), but additional details may be found in the annual monitoring reports that are filed with the Yukon Territory Water Board. Data for these three sites for the 1998 to 2002 timeframe is summarized on Tables 27 and 28.

Grum Interceptor Ditch

Location V25BSP was created in 1995 as part of the sediment mitigation activities that rerouted the Grum Interceptor Ditch into the Sheep Pad Pond. Prior to mine shut down in 1998, total zinc generally ranged from 0.28 to 0.01 mg/L, sulphate generally ranged from 641 to 10 mg/L and pH generally ranged from 8.40 to 6.65. Sulphate and zinc concentrations and pH fluctuated widely with periods of higher concentrations and higher pH corresponding to periods of effluent release from the Water Treatment Plant.

Water quality during the baseline period for the current environmental assessment

During the 1998 to 2002 timeframe, water quality at location V25BSP was slightly alkaline (pH 7.78) and of high hardness (Ca = 53 mg/L and total hardness = 739 mg/L, although the median value for total hardness is skewed high due to the greater frequency of analysis in 2002 as compared to 1998 to 2001). Ammonia levels were detectable but low (0.10 mg/L), sulphate was moderate (127 mg/L) and the stream waters were clear, with total suspended solids levels of 6 mg/L (Table 27). The concentration of total zinc was moderately elevated (for a mine runoff/effluent stream) at 0.11 mg/L.

2002 data is interesting as it was the only year of operation of the Grum/Vangorda Water Treatment Plant as is planned for the proposed term of the licence renewal

It is of interest to separate out the year 2002 data from the overall 1998 to 2002 timeframe because the year 2002 was the only year of operation of the Grum/Vangorda Water Treatment Plant, as is planned for the proposed term of the licence renewal. In general, water quality at location V25BSP was harder and contained higher concentrations of sulphate and zinc corresponding to the periods of effluent release from the treatment plant. For example, in 2002 water

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Sulphate and zinc concentrations and pH were higher corresponding to periods of effluent release from the Water

	Parameter	Ca	Hardness	NH3-N	pН	SO4-T	TSS	
Site		mg/L	mg/L	mg/L		mg/L	mg/L	
V25BSP	n=	37	11	11	19	37	36	
	Mean	97	484	0.32	7.79	280	22	
	Median	53	739	0.10	7.78	127	6	
V2	n=	28	2	2	18	27	27	
	Mean	163	919	0.09	7.68	379	9	
	Median	163	919	0.09	7.78	380	7	
V6A	n=	20	n/a	20	16	20	18	
	Mean	47		< 0.05	7.71	73	9	
	Median	28		< 0.05	7.69	21	4	

Table 27. Water Quality at Vangorda Mine Site Runoff and Effluent Discharge Sites, 1998-2002

Table 28. Trace Metal Concentrations at Vangorda Mine Site Runoff and Effluent sites, 1998-2002

Site			V25BSP					V2			V6A				
Parameter	n=	D.L.	# > D.L.	Mean	Median	n≃	D.L.	# > D.L.	Mean	Median	n=	D.L.	#>D.L.	Mean	Median
Ag	37	0.003	7	0.007	0.001	28	0.003	6	0.002	0.001	20	0.003	0		
Al	37	0.05	33	1.112	0.250	28	0.05	26	0.292	0.155	20	0.05	18	0.260	0,150
As	37	0.001	13	0.014	0.008	28	0.02	10	0.034	0.037	20	0.001	2	0.015	0.015
Cd	37	0.001	14	0.003	0.001	28	0.001	4	0.003	0.003	20	0.001	5	0.002	0.001
Co	37	0.001	14	0.015	0.007	28	0.005	5	0.009	0.009	20	0.001	3	0.010	0.007
Cr	37	0.005	17	0.045	0.012	28	0.005	8	0.069	0.017	20	0.005	8	0.066	0.014
Cu	37	0.001	35	0.025	0.020	28	0.002	26	0.021	0.017	20	0.001	19	0.015	0.012
Fe	37	0.01	35	1.672	0.127	28	0.01	24	0.375	0.190	20	0.01	19	0.367	0.250
Mn	28	0.01	28	0.123	0.103	26	0.01	18	0.062	0.022	20	0.01	14	0.027	0.016
Ni	37	0.005	18	0.015	0.008	27	0.005	16	0.034	0.022	20	0.005	5	0.011	0.006
Рь	37	0.01	19	1.828	0.020	27	0.02	13	58.781	0.030	20	0.01	6	0.039	0.017
V	34	0.005	13	0.005	0.002	27	0.005	9	0.008	0.005	20	0.005	4	0.014	0.012
Zn	29	0.01	29	0.144	0.110	21	0.01	18	0.384	0.080	19	0.01	18	0.049	0.025

quality at location V25BSP contained up to 810 mg/L sulphate and 0.184 mg/L total Zn and hardness was as high as 847 mg/L.

The signature of treated effluent is apparent in existing water quality, and particularly during the year 2002, as compared to water quality at the reference locations. The concentration of Ca is more than doubled and hardness is increased by an order of magnitude. Ammonia is increased slightly and sulphate is also increased by one order of magnitude. Concentrations of Mn and Zn were elevated by an order of magnitude over concentrations in the reference streams. Concentrations of Ag, As and Fe were reduced by several times, however from the reference locations. Concentrations of Cd and Ni were not changed compared to the reference locations.

Ongoing metal loadings to the receiving environment are high, but discharge concentrations from the water treatment plant were within the Water Licence limits Existing water quality conditions at location V25BSP therefore reflect ongoing metals loadings to the receiving environment. Although loadings are elevated, discharge concentrations from the Water Treatment Plant (in 2002) were within the Water Licence limits on all occasions for all licenced parameters. Of most concern is Zn because of a combination of elevated loadings and relatively high toxicity (see CCME Guidelines in Table 26). High levels of sulphate are also discharged. These serve as a good indicator of mine discharge, but are not toxic. High levels of Mn are also discharged but these are of lower toxicity.

Grum Creek

Rerouting of the Grum
Interceptor ditch
improved water qualityWater quality improved substantially at location V2 in 1995 through reduced
concentrations of total suspended solids and some metals due to the rerouting of
the Grum Interceptor Ditch away from Grum Creek and into the Sheep Pad Pond.
Over the entire period of record to mine closure in 1998, total zinc generally
ranged from 0.91 to 0.001 mg/L, sulphate generally ranged from 328 to 24 mg/L
and pH generally ranged from 7.0 to 8.6.

From 1998 to 2002, water quality at location V2 was slightly alkaline (pH 7.78) and of high hardness (Ca = 163 mg/L and total hardness = 919 mg/L). Ammonia levels were detectable but low (0.09 mg/L), sulphate was moderately high (380 mg/L) and the stream waters were clear, with Total Suspended Solids levels of 7 mg/L. The concentration of total zinc was slightly elevated (for a mine runoff stream) at 0.08 mg/L.

The effects of runoff and seepage from the Grum Rock dump on baseline period water quality The signature of runoff and seepage from the Grum Rock Dump is apparent in existing water quality at location V2 as compared to water quality at the reference locations. The concentrations of Ca and hardness are increased by one order of magnitude. Ammonia is increased slightly and sulphate is also increased by one order of magnitude. Concentrations of As, Cd, Ni, Pb and Zn were at least doubled over concentrations in the reference streams. Concentrations of Ag, Fe and Mn are reduced, however from the reference locations. Concentrations of Cr and Cu are not changed compared to the reference locations.



Grum Creek water quality reflects ongoing metals loadings to the receiving environment The existing water quality conditions in Grum Creek therefore reflect ongoing metals loadings to the receiving environment. Of most concern are As, Cd, Ni and Zn because of a combination of elevated loadings (due to the release of compliant effluent) and their relatively high toxicity (see CCME Guidelines in Table 26). High levels of sulphate are also present. These serve as a good indicator of mine discharge, but are not toxic.

AEX Creek

Zinc and sulphate concentrations At location V6A, AEX Creek, over the entire period of record to mine closure in 1998, total zinc generally ranged from 0.28 to 0.001 mg/L, sulphate generally ranged from 70 to 3 mg/L and pH generally ranged from 7.0 to 8.1.

1998-2002 water quality From 1998 to 2002, water quality at location V6A was slightly alkaline (pH 7.69) and of moderate hardness (Ca = 28 mg/L). Ammonia levels were non detectable, sulphate was low (21 mg/L) and the stream waters were clear, with Total Suspended Solids levels of 4 mg/L. The concentration of total zinc was low at 0.025 mg/L.

Mine-related metal
loadings are absent in
the baseline water
quality conditionsWater quality at location V6A in AEX Creek is very similar to that at the
reference locations. This indicates that runoff from the ore transfer pad and haul
road (in the AEX Creek drainage area) are not having an observable effect in
AEX Creek.

The existing water quality conditions in AEX Creek therefore reflect the absence of mine-related metals loadings to the receiving environment.

Receiving Water Quality

Zinc variability at V27 is attributed to the Grum/Vangorda water treatment plant discharge Location V27 is in the Main Stem of Vangorda Creek is immediately below the mine site and immediately upstream of the confluence with Shrimp Creek (reference location V4). This location is internal to the local study area but is influenced by the discharge of treated and compliant effluent and other runoff waters and by mixing with water from the Vangorda Creek Diversion Flume. From 1991 to 1998, water quality at this site was variable: sulphate ranged from 20 to 127 mg/L, pH from 7.33 to 8.24 and Zn generally from 0.02 to 0.164 mg/L (average = 0.05). The variability in zinc is attributed to the influence of a period of high volume discharge from the Grum/Vangorda Water Treatment Plant during the summer of 1997.

Location VGMAIN is at the extent of the local study area on the Main Stem of Vangorda Creek immediately upstream of the confluence with the West Fork. This includes water from the Main Stem via location V27 plus water from Shrimp Creek via reference location V4 plus natural runoff into the creek below Shrimp Creek. Routine sampling was introduced here in 1997. From 1997 to 1998, water quality at this site was variable: sulphate ranged from 23 to 233 mg/L, pH from 7.9 to 8.2 and Zn generally from 0.02 to 0.13 mg/L (average = 0.06). The variability in sulphate has been attributed to a natural seasonal cycle

Comparison of water quality in Vangorda Creek with that in the mine runoff water show dilution and assimilation of mine water in the receiving water during the baseline period

Most CCME

exceedances would have occurred during discharge periods and do not indicate acutely lethal conditions to aquatic life

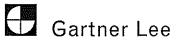
Zinc and sulphate concentrations and pH. Zinc variability is attributed to initial clearing and construction work wherein higher concentrations are present in the winter season (Gartner Lee 2003b – Vangorda Annual Env. report). The variability in zinc is attributed to the influence of a period of high volume discharge from the Grum/Vangorda Water Treatment Plant during the summer of 1997.

During the 1998-2002 care and maintenance phase, the receiving waters at both locations V27 and VGMAIN (Tables 29 and 30) continued to show elevated levels of some metals as compared to the CCME guidelines and to the reference locations. Comparison of water quality in Vangorda Creek with that in the mine runoff water showed substantial dilution and assimilation of mine water in the receiving environment. Further, comparison of water quality at locations V27 and VGMAIN shows that most metals were reduced in concentration along the length of the Main Stem, with the exceptions of Mn, Ni and Pb. Nevertheless, receiving water quality was impaired when compared with CCME Guidelines for protection of aquatic life for Al, As, Cd, Cr, Cu, Pb and Zn at both locations.

Concentrations of Al, As, Fe, Mn, Ni and Pb were the same as, or less than, concentrations at the reference water quality sites at one or both of the receiving water locations V27 and VGMAIN. Concentrations of Cd, Cr, Cu, Ni, Pb and Zn were greater than the upstream reference sites at one or both of receiving water locations V27 and VGMAIN.

In summary, receiving water quality in the main stem of Vangorda Creek contained elevated concentrations of Cd, Cr, Cu, Pb, Zn and SO₄ when compared to reference water quality and CCME Guidelines. No CCME Guidelines exists for sulphate as it is of low toxicity. The CCME Guidelines represent water quality conditions that assure indefinite survival of the most sensitive life stages of sensitive aquatic species. Most exceedances would have occurred during discharge periods and were therefore short-term events. The water quality data do not indicate any conditions which are acutely lethal to aquatic life. This is supported by the acceptable toxicity testing reported in annual reports for the site (i.e. GLL, 2003b).

Location V5 is at the extent of the local study area in the West Fork of Vangorda Creek immediately upstream of the confluence with the Main Stem. This includes runoff water from AEX Creek plus a portion of the Grum Rock Dump (excluding the sulphide cell) plus natural runoff into the creek below the mine access road. Routine sampling was introduced here in 1991. From 1991 to 1998, water quality at this site was variable: sulphate ranged from 15 to 319 mg/L, pH from 7.2 to 8.8 and Zn generally from 0.001 to 0.29 mg/L (average = 0.04). The variability in sulphate has been attributed to a natural seasonal cycle wherein higher concentrations are present in the winter season (Gartner Lee 2003b). The variability in zinc is attributed to the influence of initial clearing and construction work in 1992. Sediment loading was also very high, on occasion, at location V5 (range from 2 to 1,020 mg/L total suspended solids), which is attributed primarily to initial construction and clearing work in 1992.



1998-2002 water quality During 1998-2002, the receiving waters at locations V5 (Tables 29 and 30) continued to show elevated levels of some metals as compared to the CCME guidelines and to the reference locations. Receiving water quality was impaired when compared with CCME Guidelines for protection of aquatic life for Al, As, Cd, Cr, Cu, Pb and Zn. Concentrations of Ag, Cd, Co, Cr, Fe and Mn were the same as, or less than, concentrations at the reference water quality sites.

Concentrations of Al, As, Cu, Ni, Pb and Zn were slightly greater than the reference sites. Sediment loading was also very high, on occasion, at location V5 (range up to 731 mg/L total suspended solids) which is attributed primarily to natural events downstream of the mine facilities.

A debris flow entered the creek in the summer of 2000 A significant natural sedimentation event occurred in summer of 2000 in the West Fork wherein a debris flow entered the creek from the north side upstream of location V5 and downstream of the mine access road. This event resulted in high initial sediment loads in the creek (251 mg/L total suspended sediment) and is considered to be contributing to an annual spring peak in total suspended sediments.

In summary, during the existing environment timeframe (1998 to 2002), receiving water quality in the West Fork of Vangorda Creek contained elevated concentrations of Al, As, Cu, Pb, Zn and TSS when compared to reference water quality and CCME Guidelines.

Regional Study Area Water Quality

The RSA downstream of the immediate receiving waters for the Vangorda Plateau site, is described by water quality at location V8, immediately upstream of entry into the Pelly River. This includes flow from the Main Stem via location VGMAIN plus flow from the West Fork via location V5 plus natural runoff into the creek below the confluence of the Main Stem and West Fork along the north perimeter of the Town of Faro. The Town of Faro water supply is taken from groundwater wells located at the entry of Vangorda Creek into the Pelly River.

Routine sampling was introduced at location V8 in 1989. From 1989 to 1998, water quality at this site was variable: sulphate ranged from 12 to 199 mg/L, pH from 7.0 to 8.5 and Zn generally from 0.006 to 0.36 mg/L (average = 0.05). The variability in sulphate has been attributed to a natural seasonal cycle wherein higher concentrations are present in the winter season (Gartner Lee 2003b). The variability in zinc is attributed to the influence of initial clearing and construction work in 1991. Sediment loading was also very high, on occasion, at location V8 (range from 4 to 590 mg/L total suspended solids), which is attributed primarily to initial construction and clearing work in 1991.

From the1998 to 2002, the receiving waters at location V8 (Tables 31 and 32) continued to show elevated levels of some metals as compared to the CCME guidelines and to the reference locations. Receiving water quality was impaired when compared with CCME Guidelines for protection of aquatic life for Al, As,

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The Town of Faro water supply is taken from groundwater wells locate at the entry of Vangorda Creek into the Pelly River

1989-1998 water quality was variable at this site

	Parameter	Ca	Hardness	NH3-N	pН	SO4-T	TSS
Site		mg/L	mg/L	mg/L	-	mg/L	mg/L
V27	n=	14	12	8	9	13	12
	Mean	21	82	<0.05	7.93	37	3
	Median	16	72	<0.05	7.97	37	2
VGMAIN	n=	47	45	2(13 < d.l.)	32	47	38
	Mean	53	217	0.065	7.98	90	11
	Median	56	220	0.065	8.01	82	3
V5	n=	62	58	1 (23 <d.l.)< td=""><td>45</td><td>62</td><td>59</td></d.l.)<>	45	62	59
	Mean	79	347	0.070	8.05	125	42
	Median	69	305	0.070	8.04	89	13

Table 29. Water Quality in Vangorda Creek Local Study Area, 1998-2002

 Table 30. Trace Metal Concentrations in Vangorda Creek Local Study Area, 1998-2002

			V27					VGMAIN					V5				
Parameter	n=	D.L.	# > D.L.	Mean	Median	n=	D.L.	# > D.L.	Mean	Median	n <u></u>	D.L.	# > D.L.	Mean	Median	CCME	Reference
Ag	14	0.003	0	<0.003	< 0.003	47	0.003	5	0.001	0.001	62	0.003	8	0.002	0.001	0.1	0.003
Al	14	0.05	13	0.187	0.130	47	0.05	39	0.225	0.110	62	0.05	60	0.782	0.275	0.100	0.150
As	14	0.001	2	0.008	0.008	47	0.001	4	0.008	0.007	62	0.001	8	0.021	0.021	0.005	0.019
Cd	14	0.001	4	0.002	0.002	47	0.001	12	0.001	0.001	62	0.001	11	0.003	0.001	0.00001	0.001
Co	14	0.001	5	0.010	0.006	47	0.001	9	0.008	0.005	62	0.001	11	0.007	0.002		0.006
Cr	14	0.005	7	0.079	0.033	47	0.005	22	0.029	0.014	62	0.005	32	0.054	0.014	0.010	0.016
Cu	14	0.001	13	0.016	0.017	47	0.001	40	0.020	0.015	62	0.001	58	0.020	0.019	0.002	0.018
Fe	14	0.01	14	0.283	0.192	47	0.01	42	0.312	0.100	62	0.01	61	1.287	0.290	0.300	0.309
Mn	14	0.01	6	0.027	0.017	47	0.01	27	0.032	0.020	62	0.01	46	0.052	0.030		0.030
Ni	14	0.005	5	0.006	0.004	47	0.005	20	0.012	0.010	62	0.005	33	0.015	0.009	0.025	0.008
Pb	14	0.01	4	0.012	0.011	47	0.01	11	12.735	0.020	62	0.01	19	11.223	0.018	0.001	0.014
V	14	0.005	2	0.010	0.010	45	0.005	6	0.012	0.013	62	0.005	19	0.012	0.009		0.008
Zn	13	0.01	13	0.066	0.050	30	0.01	32	0.053	0.040	48	0.01	38	0.067	0.026	0.03	0.020

Та	ble 31. Wa	ater Quali	ty Concer	itrations i	n Vangoro	la Creek I	Regional S	Study Are:	a, 1998-2002.
		Parameter	Ca	Hardness	NH3-N	pН	SO4-T	TSS	
	Site		mg/L	mg/L	mg/L		mg/L	mg/L	

	Parameter	Ca	Hardness	NH3-N	pН	SO4-T	TSS
Site		mg/L	mg/L	mg/L		mg/L	mg/L
V8	n=	65	61	31	45	65	59
	Mean	65	263	< 0.05	7.96	112	15
	Median	65	271	<0.05	8.00	98	6

Table 32. Trace Metal (Concentrations in `	Vangorda Creek]	Regional Study	v Area, 1998-2002.

Site			V8			CCME	Reference	
Parameter	n=	D.L.	# > D.L.	Mean	Median	CCIME	Reference	
Ag	65	0.003	7	0.0020571	0.0006	0.1	0.003	
Al	65	0.05	58	0.3556897	0.145	0.100	0.150	
As	65	0.001	10	0.018	0.016	0.005	0.019	
Cd	65	0.001	14	0.1581286	0.002	0.00001	0.001	
Co	65	0.001	17	0.0236	0.007		0.006	
Cr	65	0.005	33	0.0322727	0.014	0.010	0.016	
Cu	65	0.001	59	0.0175508	0.016	0.002	0.018	
Fe	65	0.01	60	0.4964667	0.1605	0.300	0.309	
Mn	65	0.01	60	0.4102467	0.04		0.030	
Ni	65	0.005	34	0.0230588	0.009	0.025	0.008	
Pb	65	0.01	26	9.9380769	0.02	0.001	0.014	
V	63	0.005	13	0.0133077	0.012		0.008	
Zn	41	0.01	45	0.0395644	0.03	0.03	0.020	

22307-vol2-tables14-32.xls



Cd, Cr, Cu and Pb. Concentrations of Ag, Al, As, Cr, Cu and Fe were the same as, or less than, concentrations at the reference water quality sites. Concentrations of Cd, Co, Mn, Ni, Pb and Zn were slightly greater than the reference sites. Sediment loading continued to be elevated during freshet at location V8 (range up to 184 mg/L total suspended solids), which is attributed primarily to the influence of a natural debris flow that occurred in the West Fork in 1991.

1998-2000 baseline
period water qualityIn summary, receiving water quality contained elevated concentrations of Cd, Pb
and TSS when compared to reference water quality and CCME Guidelines.

Vangorda Watershed Surface Water Quality Summary

The existing water quality for the Vangorda Plateau Mine Site was described by:

Description of the Vangorda Plateau mine site water quality

- Alkaline conditions, low solids and concentrations of some metals which exceeded CCME guidelines in reference waters isolated from mine influence;
- Entry into Vangorda Creek of mine runoff and effluent waters from the Grum Interceptor Ditch and Grum Creek which contained Ca, hardness, Zn, SO₄ and Mn at concentrations which were an order of magnitude above reference levels and of trace metals which exceeded reference levels by a factor of two;
- Water quality in the main Stem of Vangorda Creek downstream of the mine facilities, which reflected the influence of the mine facilities as elevated levels of Cd, Cr, Cu, Pb, Zn and SO₄;
- Water quality in the West Fork of Vangorda Creek downstream of the mine facilities which reflected the influence of the mine facilities as elevated levels of Al, As, Cu, Pb and Zn; TSS was also elevated between 1998-2002 and this was attributed to a natural debris flow; and
- Assimilation of all mine influences but Cd and Pb in Vangorda Creek upstream of the Pelly River.

These conditions describe the existing water quality against which the proposed project activities (Project Description, Volume I) have been assessed for the 2004 - 2008 time period (Environmental Effects Assessment, Volume III).

2.5.5 GROUNDWATER QUALITY

2.5.5.1 Overview

The baseline groundwater quality includes data from 38 locations, most containing 2 or more nested piezometers Groundwater quality for the 1987-2002 period includes data from a total of 38 regularly monitored locations, most of which contain two or more nested piezometer screens, on the Faro and Vangorda Plateau sites (Figures 22 and 23). These include locations designed to monitor subsurface seepage from the Vangorda Rock Dump, the Grum Rock Dump, the Faro Rock Dumps along the

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The monitoring wells have varying periods of record due to a number of discreet installation programs

The number of sampling sites was reduced to describe the environmental baseline for the Rose Creek Tailings Facility Dumps and the Rose Creek Tailings Facility.

North Fork of Rose Creek, the Old Faro Creek channel below the Faro Rock

A management approach and considerations on possible degraded groundwater quality in these areas are described in the Adaptive Management Plan that is provided in Volume 1 of this report.

There have been a number of discreet piezometer installation programs over the mine life and, therefore, the monitoring wells discussed here have varying periods of record. The most recent programs were in 2001, focussed in the Rose Creek Tailings Facility and the Vangorda rock dump and in 1996, focussed on the Rose Creek Tailings Facility and the Faro rock dumps.

Some of the groundwater monitoring wells associated with the Rose Creek tailings facility provide information useful for detailed monitoring for the pathways of contaminants released from the tailings but do not provide information that is useful for environmental assessment (i.e. they are internal to the facility). Therefore, a smaller number of selected sites were used to describe the existing environmental conditions for the Rose Creek Tailings Facility. Additional details are provided in this volume under the topic of Mine Characterization. The most important groundwater quality requirement is to document the existing (defined as 1998 to 2002) groundwater quality. Groundwater quality data from 1998 to 2002 for the Faro and Vangorda Mine sites are provided in Appendix C.

2.5.5.2 Seepage from Faro Rock Dumps to the North Fork of Rose Creek

Groundwater seepage quality from the Faro Rock Dumps to the North Fork of Rose Creek is sampled at monitoring wells at the toe of the northeast rock dump (BH12, BH13 and BH14), at the toe of the Zone II Rock Dumps (BH1, BH2, BH4) and at the toe of the Intermediate Rock Dump (P96-6, S1, S2, S3) as illustrated on Figures 5 and 6 in Volume I. These monitoring wells vary in depth from 2.84 m to 20.85 m. Monitoring for surface water effects in the North Fork of Rose Creek is conducted at a series of surface sampling stations in the North Fork as described in Gartner Lee 2003a.

Baseline groundwater quality at wells at the toe of the NE rock dumps is impacted by seepage from the NERock Dumps Monitoring wells BH12, BH13 and BH14 at the toe of the northeast rock dumps consist of two installations each (one of the BH13 installations is currently inoperable) that vary in depth from 2.85 m to 10.0 m. These wells were installed in 1994. Groundwater quality was sampled once or twice per year from 1994 to 1998 and displayed measurable zinc concentrations (generally ranging from <0.01 to 0.12 mg/L) and variable sulphate (ranging from 93 to 883 mg/L) at neutral pH (ranging from 6.8 to 7.9). During 1998 to 2002, groundwater quality contained 0.05 mg/L zinc (median value) and 678 mg/L sulphate (median value) at continued neutral pH (7.31 median value). Therefore, existing groundwater quality in these monitoring wells is impacted by seepage from the northeast rock dumps as displayed by elevated zinc and sulphate. The possible effects of this groundwater on surface water in Rose Creek is described in Gartner Lee 2003a.

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Groundwater quality slightly improved over the historical period in wells at the toe of the Zone II Rock Dumps

Baseline groundwater quality in wells BH 1,2,& 4 is impacted by historical events and possibly seepage from the Zone II Rock Dumps

Baseline groundwater quality at the toe of the Main/Intermediate Rock Dumps is impacted by seepage from the Main/Intermediate Rock Dumps and/or natural mineralization in the flow path Monitoring wells BH1, BH2 and BH4 at the toe of the Zone II Rock Dumps consist of one installation each that vary in depth from 3.20 to 5.55 m. These wells were installed in 1991. Groundwater quality was sampled nearly monthly from 1991 to 1998 except for 1992 to 1994 when only a few samples were collected. Groundwater quality from 1991 to 1998 displayed highly variable zinc concentrations (generally ranging from 0.02 to 184 mg/L), highly variable sulphate (ranging from 34 to 9050 mg/L) at variable and occasionally acidic pH (ranging from 2.6 to 8.5). During the 1998 to 2002 timeframe, groundwater quality was sampled approximately quarterly and contained 4.45 mg/L zinc (median value) and 184 mg/L sulphate (median value) at continued neutral pH (7.31 median value). Although existing groundwater quality continued to be highly variable, groundwater quality was slightly improved over the historical (1991 to 1998) period.

The poor groundwater quality in monitoring wells BH1, BH2 and BH4 has been attributed to the location of the wells within surficial soils that have been contaminated from historical events such as the initial routing of the Faro Creek Diversion over erodable gossan material to this general location and an overflow from the Zone II Pit through this location. Therefore, the high concentrations and low pH may not be directly related to ongoing seepage from the Zone II Rock Dumps. Additionally, the measured high concentrations and low pH do not have a demonstrable effect in the surface water of Rose Creek (Gartner Lee 2003a). Therefore, existing groundwater quality in these wells is impacted by historical events and, possibly, by ongoing seepage from the Zone II Rock Dumps as displayed by elevated zinc and sulphate and depressed pH.

Monitoring wells P96-6, S1, S2 ands S3 at the toe of the Main/Intermediate rock dumps consist of one or two installations each (P96-6 and S3 have only one installation) that vary in depth from 5.37 to 20.85 m. Routine monitoring results are available from 1996. Groundwater quality was sampled once or twice per year from 1996 to 1998 and displayed variable zinc concentrations (ranging from <0.01 to 3.73 mg/L) and variable sulphate (ranging from 85 to 1,372 mg/L) at neutral pH (ranging from 6.0 to 6.6). During the 1998 to 2002, groundwater quality was sampled once or twice per year and contained 0.22 mg/L zinc (median value) and 1,300 mg/L sulphate (median value) at continued neutral pH (6.3 median value). Therefore, existing groundwater quality in these monitoring wells is impacted by seepage from the Main/Intermediate Rock Dumps and/or natural mineralization in the flow path as displayed by elevated zinc and sulphate. The possible effects of this groundwater on surface water in Rose Creek is described in Gartner Lee 2003a.

2.5.5.3 Seepage from Faro Rock Dumps to the Rose Creek Tailings Facility

A large portion of groundwater flow from the Faro Rock Dumps is thought to report to the surface ponds of the tailings facility Groundwater seepage quality from the Faro Rock Dumps to the Rose Creek Tailings Facility is sampled at monitoring wells at the toe of the Main/Intermediate Rock Dumps (P96-7 and P96-8) as illustrated on Figures 5 and 6 of Volume 1. These monitoring wells vary in depth from 4.87 to 9.90 m.



Baseline groundwater

quality at wells at the

impacted by seepage

Main/Intermediate rock

Main/Intermediate

Rock Dumps are

toe of the

from the

dumps

Deloitte & Touche

A large portion of this groundwater flow is thought to report to the surface ponds of the tailings facility but some goes into the tailings.

Monitoring well P96-7 (9.90 m depth) at the toe of the Main/Intermediate Rock Dumps was installed in 1996. Groundwater quality was sampled once or twice per year from 1996 to 1998 and displayed highly variable zinc concentrations (generally ranging from <0.01 to 1.55 mg/L) and variable sulphate (ranging from 362 to 662 mg/L) at neutral pH (ranging from 7.4 to 7.6). From 1998 to 2002, groundwater quality contained relatively low zinc (0.03 mg/L median value) and 1,226 mg/L sulphate (median value) at continued neutral pH (7.06 median value). Therefore, existing groundwater quality in this monitoring well is impacted by seepage from the Main/Intermediate rock dumps as displayed by elevated sulphate.

Baseline groundwater quality near the old Faro Creek Channel is impacted by seepage from the Main/Intermediate Rock Dumps Monitoring wells P96-8A and 8B (4.87 and 9.30 m depths) are located near the old Faro creek channel at the toe of the Main/Intermediate rock dumps and were installed in 1996. The old Faro creek channel is thought to be a natural conduit for seepage from the rock dumps and there is a small surface discharge at this location also. Groundwater quality was sampled once or twice per year from 1996 to 1998 and displayed highly variable zinc concentrations (generally ranging from 0.94 to 16.1 mg/L) and stable sulphate (generally ranging from 2,118 to 2,576 mg/L) at neutral pH (ranging from 6.3 to 7.7). During the 1998 to 2002 environmental assessment, groundwater quality contained relatively low zinc (16.6 mg/L median value) and elevated sulphate (3,244 mg/L median value) at continued neutral pH (6.47 median value). Therefore, existing groundwater quality in this monitoring well is impacted by seepage from the Main/Intermediate rock dumps as displayed by elevated zinc and sulphate.

2.5.5.4 Seepage from the Rose Creek Tailings Facility

Groundwater seepage quality from the Rose Creek Tailings Facility is sampled at monitoring wells located downgradient of the Cross Valley Dam. Monitoring wells X16 A/B, X17 A/B and X18 A/B were installed in 1981 and have a long period of record. Monitoring well P01-02 was installed in 2001. These wells range in depth from 5.0 to 35.5 m in depth and the locations are illustrated on Figures 5 and 6 of Volume I. There are numerous additional wells associated with the Rose Creek Tailings Facility that are described in this volume under the topic of Mine Characterization. The downgradient wells listed here provide the information appropriate for the environmental assessment.

Baseline groundwater quality near the valley centre can be characterized by low zinc and sulphate concentrations Monitoring wells X16 A/B and X17 A/B are located near the valley centre and routine monitoring data is available since 1994 although a few data points are available to 1981. Groundwater quality from 1990 to 1998 displays low but variable zinc concentrations (generally ranging from <0.01 to 0.15 mg/L) and low but variable sulphate (ranging from 9 to 143 mg/L) at neutral pH (ranging from 6.9 to 7.9). During the 1998 to 2002 environmental assessment, groundwater quality contained relatively low zinc (0.03 mg/L median value) and sulphate (30 mg/L median value) that displays a slight increasing trend over time



at continued neutral pH (7.52 median value). Therefore, existing groundwater quality in these monitoring wells can be characterized by low zinc and sulphate concentrations.

Baseline groundwater quality at the north side of the valley bottom can be characterized by low zinc and elevated sulphate concentrations Monitoring wells X18 A/B are located on the north side of the valley bottom and routine monitoring data is available since 1994 although a few data points are available to 1981. Groundwater quality from 1990 to 1998 displays low but variable zinc concentrations (generally ranging from <0.002 to 0.15 mg/L) and elevated but variable sulphate (ranging from 40 to 424 mg/L) at neutral pH (ranging from 6.7 to 7.6). During the 1998 to 2002 environmental assessment, groundwater quality contained relatively low zinc (0.02 mg/L median value) and elevated sulphate (422 mg/L median value) that displays an increasing trend over time at continued neutral pH (7.1 median value). Therefore, existing groundwater quality in these monitoring wells can be characterized as distinct from the valley centre (i.e. wells X16 and X17) with low zinc and elevated sulphate concentrations.

2.5.5.5 Seepage from Grum Rock Dump at Grum Creek

Baseline groundwater quality in the Grum Creek channel is impacted by seepage from the Grum Rock Dumps Groundwater seepage quality from the Grum rock dumps at Grum Creek is sampled at monitoring wells P96-09 A/B as illustrated on Figures 5 and 6 of Volume 1. These wells were installed in 1996 in the Grum Creek channel in a bedrock valley that is at least 20 m deep. This drainage path is thought to collect seepage from the sulphide cell area of the Grum rock dump. The deeper well (P96-09B at 18.0 m) was initially artesian during spring and fall but is currently inoperable due to downhole soil compaction or movement.

Groundwater quality was sampled once or twice per year from 1996 to 1998 and displayed relatively low and stable zinc concentrations (ranging from 0.04 to 0.07 mg/L) and variable sulphate (generally ranging from 52 to 432 mg/L) at neutral to slightly alkaline pH (ranging from 7.1 to 8.0). From 1998 to 2002, groundwater quality contained low zinc (0.03 mg/L median value) and moderately elevated sulphate (180 mg/L median value) that displays and increasing trend at continued neutral pH (7.4 median value). Therefore, existing groundwater quality in this monitoring well is impacted by seepage from the Grum rock dumps as displayed by elevated sulphate.

2.5.5.6 Seepage from Vangorda Rock Dump

Groundwater seepage quality from the Vangorda rock dump is sampled at monitoring wells GW94-01 through GW94-04 as illustrated on Figures 5 and 6 of Volume I. These wells were installed in 1994 around the perimeter of the dump. Two additional monitoring wells were installed in 2001.

Baseline groundwater quality around the perimeter of the dump is slightly impacted by seepage from the Vangorda Rock Dump

Groundwater quality was sampled once or twice per year from 1994 to 1998 and displayed relatively low and variable zinc concentrations (ranging from 0.01 to 0.13 mg/L) and variable sulphate (ranging from 12 to 342 mg/L) at neutral to slightly alkaline pH (ranging from 7.0 to 8.8). From 1998 to 2002, groundwater



quality contained low zinc (0.02 mg/L median value) and moderately elevated sulphate (144 mg/L median value) at continued neutral pH (7.4 median value). Therefore, existing groundwater quality in this monitoring well is slightly impacted by seepage from the Vangorda rock dump or natural mineralization in the area as displayed by elevated sulphate.

2.5.5.7 Summary of Groundwater Quality

The groundwater quality is characterized by:

Description of the groundwater quality baseline

- Groundwater seepage from Faro rock dumps to the North Fork of Rose Creek is characterized by elevated zinc and sulphate and, below the Zone II rock dumps, occasional acidic pH;
 - Groundwater seepage from Faro rock dumps to the Rose Creek Tailings Facility via the old Far Creek channel is characterized by very high zinc and sulphate concentrations at neutral pH;
 - Groundwater seepage immediately downgradient of the Rose Creek Tailings facility is characterized by low sulphate that displays a slight increasing trend and low zinc concentrations in the valley centre and by low zinc and elevated sulphate concentrations on the north side of the valley;
 - Groundwater seepage form the Grum rock dump in the Grum Creek valley is characterized by low zinc concentrations and elevated sulphate that displays an increasing trend; and
 - Groundwater seepage from the Vangorda rock dump is characterized by low zinc concentrations and elevated but variable sulphate concentrations.

These conditions describe the existing water quality against which the proposed project activities (Project Description, Volume I) have been assessed for the 2004 – 2008 time period (Environmental Effects Assessment, Volume III).

2.6 AQUATIC RESOURCES

2.6.1 AQUATIC STUDY AREA

The aquatic resources regional study area is identical to the water resources study area Water resources discussed here include sediment quality, benthic invertebrates (communities and metal concentrations), fish (species distribution and metal concentrations) and fish habitat. The aquatic resource regional study area is identical to the water resource study area, which is watershed based and includes both the Rose Creek and Vangorda Creek watersheds as shown in Figure 3. Data has been collected from Anvil, Rose, Vangorda, and Blind Creeks and the existing conditions upon which the environmental effects assessment is based is data available from 1998 to 2002, during care and maintenance activities. Historical information is also available and is summarized under each component section, below to provide information and perspective on changes to each component, over time, as a result of mine activities.



Benthic community structure and metals in sediment have been the subject of sampling Aquatic resource studies in Rose and Vangorda regional study areas (Figure 3) have been completed over time as both routine sampling required under the water licenses and on a less routine basis for additional purposes. Benthic community structure and metals in sediment have been the subject of sampling and analysis as required under the current water licenses.

Metals in stream sediment data and benthic invertebrate community data exists from 1973 to 2002, while fish presence and metals in fish tissue data exists from 1974 to 2002 and metals in benthic invertebrate data was collected only in 2002. Table 33 outlines the aquatic resource studies that have been completed within the regional watershed study areas. Anvil Creek sampling is included within the Rose Creek watershed for the purpose of the table.

Table 33. Aquatic Resource Studies Completed

Study Topic	Watershed	Study Date	Reference
Metals in stream sediment	Rose	1973	Hoos & Holman (Env. Can), 1973
Metals in stream sediment	Rose	1985	Godin & Osler (Env. Can), 1985
Metals in stream sediment	Vangorda	1993	Laberge, 1993
Metals in stream sediment	Vangorda	1996	Davidge (Env. Can.), 1996
Metals in stream sediment	Vangorda	1996	Laberge, 1996
Metals in stream sediment	Vangorda	1997	Laberge, 1997
Metals in stream sediment	Vangorda	1999	Laberge, 1999
Metals in stream sediment	Rose	1999	Env. Can. Unpublished
Metals in stream sediment	Vangorda	2001	Laberge, 2001
Metals in stream sediment	Rose, Vangorda	2002	Gartner Lee, 2003
Benthic invertebrate sampling	Rose	1973	Hoos & Holman, 1973
Benthic invertebrate sampling	Rose	1974	S.A. Baker, 1979
Benthic invertebrate sampling	Rose	1975	S.A. Baker, 1979
Benthic invertebrate sampling	Rose, Vangorda	1975	Mtl. Engineering Co., 1976
Benthic invertebrate sampling	Rose	1976	S.A. Baker, 1979
Benthic invertebrate sampling	Rose, Vangorda	1976	Mtl. Engineering Co., 1977
Benthic invertebrate sampling	Rose	1977	K. Weagle, 1981
Benthic invertebrate sampling	Rose, Vangorda	1977	Mtl. Engineering Co., 1978
Benthic invertebrate sampling	Rose	1978	K. Weagle, 1980
Benthic invertebrate sampling	Rose, Vangorda	1980	K. Weagle, 1980
Benthic invertebrate sampling	Rose	1981	K. Weagle, 1981
Benthic invertebrate sampling	Rose	1982	K. Weagle, 1982
Benthic invertebrate sampling	Rose	1983	B. Gotin & T. Osler, 1985
Benthic invertebrate sampling	Rose	1983	K. Weagle, 1983
Benthic invertebrate sampling	Rose	1984	K. Weagle, 1984
Benthic invertebrate sampling	Rose	1986	Leverton & Associates, 1987
Benthic invertebrate sampling	Rose	1986	EPS, unpublished
Benthic invertebrate sampling	Rose	1988	Laberge, 1989
Benthic invertebrate sampling	Rose, Vangorda	1990	P.A. Harder & Associates, 1992
Benthic invertebrate sampling	Vangorda	1991	Laberge, 1991
Benthic invertebrate sampling	Rose	1992	P.A. Harder & Associates, 1993
Benthic invertebrate sampling	Vangorda	1993	Laberge, 1993
Benthic invertebrate sampling	Rose	1994	Laberge, 1994

Study Topic	Watershed	Study Date	Reference
Benthic invertebrate sampling	Vangorda	1995	Laberge, 1995
Benthic invertebrate sampling	Rose	1996	Laberge, 1996
Benthic invertebrate sampling	Vangorda	1997	Laberge, 1997
Benthic invertebrate sampling	Rose	1998	Laberge, 1998
Benthic invertebrate sampling	Vangorda	1999	Laberge, 1999
Benthic invertebrate sampling	Rose	2000	Laberge, 2000
Benthic invertebrate sampling	Vangorda	2001	Laberge, 2002
Metals in benthic invertebrates	Rose, Vangorda	2002	Gartner Lee, 2003
Fish presence, metal in fish tissue	Rose	1974	S.A. Baker, 1979
Fish presence, metal in fish tissue	Rose	1975	S.A. Baker, 1979
Fish presence, metal in fish tissue	Rose, Vangorda	1975	Mtl. Engineering Co., 1976
Fish presence, metal in fish tissue	Rose	1976	S.A. Baker, 1979
Fish presence, metal in fish tissue	Vangorda	1976	Mtl. Engineering Co., 1977
Fish presence, metal in fish tissue	Vangorda	1977	Mtl. Engineering Co., 1978
Fisheries impact of Rose diversion	Rose	1981	K. Weagle, 1981a
Arctic grayling survey	Rose	1981	K. Weagle, 1981b
Fisheries	Rose	1986	Leverton & Associates, 1986
Fish presence and habitat	Vangorda	1987	P.A. Harder & Associates, 1987
Fish spawning survey	Rose	1988	P.A. Harder & Associates, 1988
Fish production and overwintering	Vangorda	1989	P.A. Harder & Associates, 1989
Fish habitat, production and feeding	Rose	1989 / 1990	P.A. Harder & Associates, 1991
Fish feeding, growth and population	Vangorda	1990	P.A. Harder & Associates, 1992
Fish habitat, metal in fish tissue	Rose	1992	P.A. Harder & Associates, 1993
Fish habitat use	Vangorda	1996	P.A. Harder & Associates, 1996
Metal in fish tissue		1997	Yukon Territorial Government
Fish habitat associated with FWSD	Rose	2000	Gartner Lee Ltd., 2000
Fish habitat, some fish presence and metals in fish tissue	Rose, Vangorda	2002	Gartner Lee Ltd., 2003c

2.6.2 CREEK SEDIMENT QUALITY

2.6.2.1 Historical Sediment Quality

Copper, lead and zinc are found in the ore deposits, can be toxic to aquatic organisms and have existing sediment quality guidelines Sediment sampling in Vangorda Creek and analyses for metals have been conducted every two years since 1993 as required by the Water Licence (plus during 1996). Samples have been collected as part of additional studies between 1973 and 2002 in Rose Creek. Sampling sites are indicated on Figure 3. A discussion of historical results for copper, lead and zinc in both watersheds is included in the 2002 baseline report and is summarized below. These three compounds are found in the ore deposits, can be toxic to aquatic organisms at high concentrations and have sediment quality guidelines available for comparison.

The 1973, 1983 and 1996 (historical data) results for Rose Creek sediments indicate that copper concentrations exceed the 35.7 ug/g Interim Sediment Quality Guideline ("ISQG") in most impact area and some reference area samples. Lead concentrations in sediment exceed the 91.3 ug/g Probable Effects



Level ("PEL") in most impact and reference area samples. Some zinc concentrations exceed the 123 ug/g ISQG while the remainder exceed the 315 ug/g PEL at impact and reference area samples. Spatial trends in the data set are not apparent and temporal trends indicate highest values for the three metals in 1983 samples from the impacted area (following a 1975 tailings spill into Rose Creek) as compared to 1973 and 1996 values.

The highest metal concentrations in sediment are found at site V27, and an increasing trend is evident The 1991, 1993, 1995 and 1997 (historical data) results for Vangorda Creek sediments indicate that the highest copper, lead and zinc concentrations are in sediments from the impacted site V27. Metal concentrations at site V5 on the West Fork are the lowest and comparable to reference site V1 results, while concentrations at the Creek mouth (V8) are between the results of the V27 and V5 site, on either creek branch. Copper levels exceeded the 35.7 ug/g ISQG for some V27 and V8 sample results. Lead levels exceeded the 91.3 ug/g PEL in all V27 and V8 results, while zinc levels exceeded the 315 ug/g PEL in all V27 and some V8 sample results. Increasing levels of all three metals at site V27 over time is an evident data trend.

2.6.2.2 Existing Sediment Quality

All Rose Creek and Rose tributary sample results exceeded the ISQG for copper Results of sediment sample analyses from 1999, 2001 and 2002 are reported for copper, lead and zinc in Table 34. This table also compares the concentrations of copper, lead and zinc to the corresponding CCME (1999) interim freshwater sediment quality guidelines (ISQG) and to the probable effects level (PEL). In general, concentrations greater than the PEL have a 50% incidence of creating adverse biological effects on aquatic life.

Results of copper in six Rose Creek samples collected from between site R2 and R4 were 44 to 87 ug/g (plus an outlier of 182 ug/g). Results of copper in three Rose tributary reference samples collected in 1999 were 42 to 81 ug/g; within the range of the Rose Creek sample results from 1999 to 2002, while copper in 2002 Anvil reference site R6 sediment was 29 ug/g. All Rose Creek and Rose tributary sample results exceeded the 35.7 ISQG for copper. This indicates that copper in sediment is higher than the ISQG in reference locations.

Nearly all Rose Creek and Rose tributary sample results exceeded the ISQG's for lead and zinc Results of lead in seven Rose Creek samples collected from between site R2 and R4 were 156 to 364 ug/g. Results of lead in three Rose tributary reference samples collected in 1999 were 54 to 202 ug/g; while lead in 2002 Anvil reference site R6 sediment was <30 ug/g. All Rose Creek and two of three Rose tributary sample results exceeded the 91.3 ug/g PEL for lead.

Results of zinc in seven Rose Creek samples collected from between site R2 and R4 were 489 to 1,603 ug/g. Results of zinc in three Rose tributary reference samples collected in 1999 were 156 to 489 ug/g; while zinc in 2002 Anvil reference site R6 sediment was 117 ug/g. All Rose Creek and one of three Rose tributary sample results exceeded the 315 ug/g PEL for zinc.

		C	opper (ug/g	<u>z)</u>		Lead (ug/g)		2	Linc (ug/g)		
		ISQG	=35.7 PEL	=197	ISQ	G=35 PEL=9	91.3	ISQG=123 PEL=315			
Creek	Station	1999	2001	2002	1999	2001	2002	1999	2001	2002	
Rose Cr.	R2	63 / 182		83	164 / 788		364	517/1,603		1,583	
Rose Cr.	4398	67			198			629			
Rose Cr.	4396	87			260			1,064			
Rose Cr.	4395	84			262			716	·		
Rose Cr.	R4			44			156			489	
Rose Tributary (R)	4394	81			202			489			
Rose Tributary (R)	4397	45			54			156			
Rose Tributary (R)	4399	42			95			203			
Anvil Cr. (R)	R6			29			<30			117	
Vangorda Cr. (R)	V1	39	19		45	18		141	88		
Vangorda Cr.	V27	129	102		2,069	2,801		921	868		
Vangorda West Fork	V5	25	28		30	32		81	116		
Vangorda Cr.	V8	29	34	24	89	110	66	148	248	219	

Table 34. Copper, Lead and Zinc Concentrations in Creek Sediment (1999 - 2002 data)

Bold exceeds Interim Freshwater Sediment Guideline (ISQG)

Bold exceeds Probable Effects Level (PEL)

(R) - reference station

22307-vol2-tables34,35,37-39.xls



Deloitte & Touche

Copper from sediment at V27 exceeded the ISQg. Lead from sediment at V27 and V8 exceeded the PEL, and zinc from sediments at V27 and V8 exceeded the PEL and ISQG respectively Results of copper in Vangorda Creek sediment was similar in samples from V5 and V8, at between 24 and 35 ug/g, within the 19 and 39 ug/g range at reference site V1. Copper was highest in site V27 sediment at 102 and 129 ug/g; in exceedance of the 35.7 ug/g ISQG.

Lead was highest in Vangorda Creek samples from V27 and at 2,069 and 2,801 ug/g, results greatly exceeded the 91.3 ug/g PEL. Results were 30 and 32 ug/g in V5 samples; within the 45 and 18 ug/g reference site V1 results. At V8, results from 66 to 110 ug/g exceeded the ISQG or PEL.

Zinc was highest in Vangorda Creek samples from V27 and at 921 and 868 ug/g, results exceeded the 315 ug/g PEL. Results were 81 and 116 ug/g in V5 samples; even lower that the 141 and 88 ug/g reference site V1 results. At V8, results from 148 to 248 ug/g exceeded the 123 ug/g ISQG and are mid-range for the watershed.

2.6.3 BENTHIC INVERTEBRATES

2.6.3.1 Historical Benthic Community Structure

Benthic invertebrates, including insects, crustaceans, and aquatic worms can be used as a measure of ecosystem health Benthic invertebrates include insects, crustaceans, aquatic worms and mollusks that reside in stream bottoms. Benthic invertebrate community structures are often used as measure of ecosystem health. Impacts to watercourses such as substrate composition, water flows and, in particular, water and sediment quality can affect benthic organisms. Sampling has been conducted at the following stations in the Anvil and Vangorda watersheds (Figure 3):

- 1. R1 Rose Creek south fork d/s of FWSD Reservoir
- 2. R2 Rose Creek at confluence of diversion channel and tailings outlet
- 3. R3 Rose Creek between tailings and Anvil Creek
- 4. R4 Rose Creek at mouth
- 5. R5 Anvil Creek d/s of Rose Creek
- 6. R6 Anvil Creek u/s of Rose Creek, a reference site
- 7. V1 Vangorda Creek upstream of diversion a reference site
- 8. V5 Vangorda Creek west fork downstream of mine activity
- 9. V27 Vangorda Creek downstream of mine activity
- 10. V8 Vangorda Creek at mouth

Benthic invertebrate population monitoring has been conducted every second year since 1991 Sampling was initiated at some of these sites in 1973 within the Anvil/Rose watershed and in 1975 within the Vangorda watershed. From 1991 on benthic invertebrate population monitoring has been conducted at each of these sites every second year as per the requirements of the water licences. Artificial substrates were used for the majority of the sampling events, allowing consistency across much of the data set. Triplicate samples were collected at each site during each sampling event and the results pooled to report community structure.



Sampling results have been summarized in terms of abundance (total number of organisms) and richness (number of taxa), as a means of comparing the benthic invertebrate community health over time and throughout the watersheds. The 1973 to 1997 data is detailed in the 2002 baseline report (GLL, 2002a) and is outlined below.

Measures of abundance and richness have fluctuated at each sampled site over time. This fluctuation may be attributed to natural factors including climate, water flow, species life cycles, sample timing as well as differences in sampling methodology and changes in water quality. No statistical analysis has been applied to the benthic data. The following observations can be drawn for the Rose / Anvil Creek data:

1. With some fluctuation, the overall trend is an increase in abundance over time (1973 to 1997) at reference sites R1, R7 and R6;

- 2. Abundance and richness at R2 and R4 have fluctuated over time with no increasing or decreasing trend;
- 3. Abundance and richness at R3 and R5 have exhibited a slight increasing trend over the 1973 to 1997 time period; and
- 4. Abundance and richness were typically lowest at R2, immediately downstream of the tailings.

The following observations can be drawn for the Vangorda Creek data:

- 1. There is an increasing trend in abundance at V27 over time, while richness fluctuates. This does not indicate an effect from the increasing level of metals (cooper, lead and zinc) at this site from 1975 to 1997;
- 2. Community abundance and richness fluctuate over time at V5 and V8; and
- 3. Abundance is lowest in samples from V1 (reference site), where there is a slight increase in richness over time.

2.6.3.2 Existing Benthic Invertebrate Structure

The greatest abundance in the Rose watershed samples was noted at locations R1 and R5

Abundance results from Vangorda Creek were less differentiating Recent 1998 to 2002 benthic invertebrate community data is available for 1998, 2000 and 2002 for Rose Creek and 1999 and 2001 for Vangorda Creek. Abundance and richness for each site are summarized on Table 35.

Community abundance ranged from 1,200 to close to 67,000 individuals in the Rose watershed samples. The greatest abundance was found in a sample from R1 and a sample from R5. Samples from R2 and R4 in generally had the lowest abundance with R3 also relatively low, indicating the lower Rose Creek samples to contain less abundant communities than the remaining sites. The lowest taxonomic richness was between 36 and 60 communities in the samples from the Rose watershed, with samples expressing the highest richness in site R1 and sites R3 and R7 expressing the lowest. There is no impact-reference pattern in the richness data.

Observations of historical abundance and richness at Rose/ Anvil Creek and Vangorda Creek

Table 35. Benthic Invertebrate Community Abundance and Richness, 1998 to 2002

Site	Year	Total Abundance (organisms/m ²)	Taxonomic Richness
R1	1998	50,808	57
	2000	5,386	57
	2002	9,988	60
R2	1998	1,945	47
	2000	6,611	48
	2002	11,639	54
R3	1998	13,491	39
	2000	18,929	42
	2002	1,808	40
R4	1998	8,148	48
	2000	na	-
	2002	4,430	52
R5	1998	7,974	44
	2000	66,975	54
	2002	15,088	45
R6	1998	26,944	43
	2000	39,344	56
	2003	1,232	36
R7	1998	39,292	44
	2000	4,574	40
	2002	10,965	37
V1	1999	1,025	20
	2001	707	21
V27	1999	1,061	23
	2001	3,698	24
V5	1999	1,284	32
	2001	17,232	40
V8	1999	1,061	28
	2001	5,867	28



Abundance in 1999 benthic samples from Vangorda Creek were very similar from all four sites. The 2001 samples varied with the site V5 sample the highest abundance with 17,232 individuals and site V1 the lowest with 707 individuals. Taxonomic richness was between 20 and 40 communities in the samples from the Vangorda watershed, with site V5 samples expressing the highest richness. There is no impact-reference pattern in the data, and in fact, the data shows reference site V1 as the least healthy community. These results do not reflect a linkage to an effect of metals in sediment as the data collected simultaneously shows the highest copper, lead and zinc levels in V27 sediment.

2.6.3.3 Metals in Benthic Invertebrates

Analysis of metal in the tissue of benthic invertebrates was conducted to determine the pathway for bioaccumulation in larger invertebrates Benthic invertebrates were collected for the analysis of metal in tissue for the first time around the Anvil Range Mine Complex in 2002. The analysis was initiated to determine the extent to which metals are accumulating in the benthic invertebrates (benthos) and thus the pathway for bioaccumulation in aquatic vertebrates (slimy sculpin and Arctic grayling). While most metals do no biomagnify between trophic levels, small invertebrates tend to accumulate greater concentrations of metals than large invertebrates, and therefore, early-lifestage fish (which eat smaller invertebrates) may be exposed to a larger dose of metals than adults (which eat larger invertebrates; Fareg *et al* 1998). Benthos were collected at the same sites as the sediment samples at R2, R4, R6 and V8 (sampling sites noted on Figure 3).

Chironimids made up 49% and 40% of the total biomass in the invertebrate collection from sites R2 and R4, respectively. At R4, there were only three *Hydropsychidae* individuals forming the majority of the biomass, although there were approximately 150 chironomids. Table 36 outlines the results of selected metals (arsenic, cadmium, copper, mercury, lead and zinc) in benthic invertebrate tissue.

Creek	Site	Arsenic	Cadmium	Copper	Mercury	Lead	Zinc
Rose Creek	R2	0.35	0.075	12.8	0.011	6.42	50.6
Rose Creek	R4	0.25	0.055	4.7	0.006	3.14	34.2
Anvil Creek	R6	1.32	0.141	4.7	0.007	1.35	39.4
Vangorda Creek	V8	0.30	0.117	4.8	0.009	1.86	50.8

Table 36. Summary of Metal Concentrations in Benthic Invertebrate Tissue (ug/g)

Sites R2 and R6 had the highest concentrations of metals in tissue Concentrations of copper, mercury and lead are highest in benthos collected from site R2, while concentrations of arsenic and cadmium are the highest in benthos collected from the reference site R6. This correlates with the 2002 stream sediment results where sediment collected from R2 also contained the highest concentrations of copper, mercury and lead. Zinc concentrations are similar in benthos collected from R2 and V8. This does not correlate with the 2002 sediment is lower than R2 sediment.



2.6.4 FISH

2.6.4.1 Historical Fish Habitat

The Faro Mine Site is located entirely within the Rose Creek watershed and construction and operations have altered the creek to result in the following:

Description of alterations to Rose Creek

- diversion of Faro Creek around the Faro Pit to enter the north fork of Rose Creek, rather than flowing directly into the main stem of Rose Creek;
- diversion of the main stem (reach 3) around the tailings impoundment facilities;
- creation of the pumphouse pond at the junction of the north and south forks;
- two alternative routes for the lower 500 m of the North Fork one is the original channel with a series of excavated ponds, with a culvert at the upstream end preventing upstream fish migration and the other is a boulderlined channel;
- construction of the Fresh Water Supply Dam converting approximately 1500 m length of stream habitat into lake habitat;
- creation of a barrier on the south fork of Rose Creek through the installation of hanging culverts just downstream of the FWSD spillway; and
- a fish migration barrier on the North Fork at the haul road crossing; and
- fish migration barriers on the South Fork at the haul road and mine road crossings.

2.6.4.2 Existing Fish Habitat

Juvenile or spawning, Arctic grayling is the predominant species in Rose Creek The following details of fish habitat in Rose Creek are based on the reporting of P.A. Harder & Associates (1991a, 1991b, 1993) and field assessments by Gartner Lee during July and August of 2002 (GLL 2002c). Except for the construction of the haul road over the North and South Forks during the early 1990s, fish habitat observations have been consistent over this time period (studies completed between 1988 and 2002). A habitat summary of Rose and Vangorda Creeks, by stream reach (a fairly homogenous channel section), is outlined in Table 37 and subjective habitat values for juvenile and spawning Arctic grayling (the predominant species in Rose Creek) as well as habitat available in summer and winter, are shown on Figure 24.

Lower Rose Creek (reaches 1 and 2) consists of high quality habitat suitable for spawning and rearing Arctic grayling and moderate habitat for adults during both summer and winter. Flow is expected here in the winter. Rose Creek is meandering in this section and contains diverse habitat including spawning gravel as well as deep pools and side channels. Based on Harder (1988), Arctic grayling spawn in this reach. Next Creek flows from the north into reach 2 of Rose Creek. Next Creek is narrow with little flow over a relatively steep gradient (>10%) of step-pools resulting in low value for all life stages of Arctic grayling.



Watercourse	Reach	Arctio	Grayling	Habitat R	ating	Channel	Gradien	Channel	Bed	Cover	Barriers	Other
		Spawning	Rearing	Summer	Winter	Width	(%)	Туре	Materiala			
Rose Cr.	1	high	high	moderate	moderate	25	1.5	,	gravel (cobble, fine)			side channels, flows in winter
Rose Cr.	2	high	high		moderate	13	1	run (riffle, pool)	cobble, gravel (boulder, fines)	20% - pools, cutbanks, boulder, little wood debris		side channels, flows in winter
Rose Cr.	3	moderate	low	moderate	moderate	20	1.5		gravel, cobble (boulders in steps)		step sections a potential juvenile barrier	flows in winter
Rose South Fork	1	moderate	high	high	high	10	1.2	riffle (pool, run) and pond	cobble (boulder, gravel)			pumphouse pond
Rose South Fork	2	low	high	high	high	6	0.5	pool (run)	fines			beaver dams, multiple channels
reservoir	3	low	high	high	high						spillway culverts	
North tributary	1	low	moderate	moderate	low	3.5	10	riffle (step, pool)	boulder (cobble)	boulder	mine road culvert	
Southeast tributary	1	low	moderate	low	low	2	4	glide	fines (boulder at mouth)	vegetation	low flow	
Rose South Fork	4	moderate	moderate	moderate	moderate	7	2.2	riffle (pool, run)	boulder (cobble, gravel)	20% - boulder, pools, vegetation, cutbanks		
Rose South Fork	5	low	low	moderate	low	7	4.3	riffle (pool, run)	boulder		mine road culvert, haul road and steep section	
Rose South Fork	6	moderate	low	low	low	5	5	riffle (run, step, pool)	boulder, cobble	20% - boulder, vegetation, cutbank		
Rose South Fork	7	low	high	moderate	moderate			Dixon Lake	fines			Dixon Lake
Rose North Fork	1	moderate	moderate	moderate	moderate	7	1.4	pool (riffle, run)	boulder (cobble, gravel, fine)	ponds, pools	mine road culvert (on one of the two lower channel options)	two options for water flow below mine road - through boulder channel or series o ponds
Rose North Fork	2	moderate	moderate	moderate	low	10	2	riffle (pool, run)	cobble (gravel, fines)	20% - pools, cutbanks, boulder	haul road	side channels
Rose North Fork	3	moderate	high	moderate	moderate	9	2	run (riffle, pool)	cobble (fines, gravel)			side channels, ponds
Rose North Fork	4	low	low	low	low			ponds	fines			ponds and small lake but very low pH (3) noted
Vangorda Cr.	l	moderate	low	low	low	20	1	riffle (pool)	gravel (cobble)			
Vangorda Cr.	2	low	moderate	moderate	moderate	13	2	riffle	boulder (cobble)	wood debris		
Vangorda Cr.	3	low	moderate	moderate	moderate	13	2.5	riffle (pool)	boulder (cobble)	wood debris	mine road u/s end	no fish upstream

Table 37. Fish Habitat in Rose and Vangorda Watersheds

Notes:

a. fines = <2mm, gravel = 2-64mm, cobble = 64-256mm, boulder = 256-4,000mm; sub-dominant substrate in brackets See Figure 3 for reach location The diversion channel (reach 3) is considered to have little rearing habitat and moderate value spawning, winter and summer habitat. The upper two-thirds of the diversion is a wide (20 m) channel with predominantly gravel and cobble substrate. The lower one-third contains steps of boulders and pools. Velocities in the lower section may make it difficult for juvenile grayling passage. Based on Harder (1988), Arctic grayling spawn in the upper portion of this reach. Flow has been expected here in the winter due to release from the reservoir.

Reaches 1 and 2 of the south fork of Rose Creek feature moderate spawning and high value rearing and overwintering habitat

Reach 1 of the South Fork of Rose Creek includes the Pumphouse pond and a natural channel that is predominantly riffle over cobble. Due to this habitat combination and the augmented winter flows from water releases from the reservoir, the habitat value is moderate for spawning and high for rearing and over-wintering habitat. Reach 2 is a meandering section with numerous side channels created by beaver dams and a substrate dominated by fines. The deep water and augmented overwinter flows provide high value habitat for rearing, and over-wintering but the reach is low value for spawning.

Reach 3 provides high quality rearing and over-wintering habitat

Reach 3, south fork Rose Creek is the Fresh Water Supply Reservoir. At spillway capacity, the maximum depth is 16.1 m, the average depth 7.5 m. The water volume was calculated to be $4,065,500 \text{ m}^3$ and the surface area $514,960 \text{ m}^2$. Information on substrate was collected during 2002 (GLL, 2003c) and was predominantly fines with cobble, boulder, angular rock, flooded willow shrubs and spruce present. The reservoir does not provide spawning habitat but provides high quality habitat for rearing and over-wintering grayling.

There are two culverts under an access road at the lower end of the FWSD spillway, which form a drop of approximately 8 m creating an impassable barrier for fish movement from Rose Creek upstream into the Fresh Water Supply Reservoir during flow periods over the spillway (typically late spring and summer). During the remainder of the year, water is released from the reservoir via a low-level pipe.

Reach 4 of the South Fork is predominantly riffle channel over boulder and cobble with some beaver dams in the upper end. Habitat is considered to be of moderate value habitat moderate value for all grayling life stages. Reach 5 contains three fish passage barriers at the lower end: a culvert under the mine access road, the rock drain under the haul road and a steep gradient section (>20%) upstream of the haul road. Fish cannot move upstream or downstream from this section. There is moderate value rearing habitat and low habitat for all other life stages in reach 5. Reach 6 is predominantly riffle over boulders at a 5% slope, with habitat considered moderate for spawning (grayling have been observed spawning at the upper end) and low for all other life stages. Dixon Lake is a shallow basin in reach 7, which offers low quality spawning habitat but high value habitat for rearing, and moderate value over-wintering habitat.

> The lower end of reach 1 of the North Fork of Rose Creek consists of two channels. The original channel has been converted to a series of ponds that flow to the pumphouse pond and a boulder-lined diversion channel directed

Reach 4 is considered



Reaches 1 and 2 of the north fork of Rose Creek provide moderate to low value habitat. Reach 3 contains diverse habitat, while Reach 4 ponds have low habitat value

Faro Creek is considered low habitat. The Vangorda Creek contains some important rearing and over-wintering habitat as well as some spawning and rearing habitat

downstream of the pumphouse pond was created. Prior to 1996, flow was directed through the original channel during the winter season to augment flow to the Pumphouse Pond and through the diversion during the summer to prevent possible sedimentation in the pond. Since 1996, all flow is directed through the series of ponds with high flow events spilling partially into the diversion. The culvert directing flows to the series of ponds is a barrier to upstream fish passage. The series of ponds and natural channel above it, provide habitat of moderate value to all life stages of grayling. Where the haul road crosses the north fork (designated as the downstream end of reach 2), a rock drain passes the creek under the road creating an impassable barrier to fish passage in either direction. Reach 2 is a diverse stream section that provides low winter habitat and moderate spawning, rearing and summer habitat.

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Reach 3 of the North Fork contains diverse habitat with beaver ponds and riffle sections resulting in high rearing and moderate spawning, summer and winter habitat. Grayling are known to spawn in the upper section of this reach. A series of ponds are located in reach 4. However, these have been measured as acidic with low dissolved oxygen, which would result in low habitat for all life stages (Harder 1988).

Faro Creek originally flowed in to the mainstem of Rose Creek but in order to develop the open pit the creek was diverted around the Faro Pit and now flows into reach 1 of the north fork. Faro Creek carries low flows and is a step-pool channel greater than 10% slope at the North Fork. The entire creek is considered low habitat for Arctic grayling and is not likely accessible from the north fork under most flow conditions due to low flow and steep grade.

The Vangorda Mine Site is located within the Vangorda watershed. Vangorda Creek contains two upper branches that meet to form the mainstem plus a major tributary called the West Fork. The mainstem has been diverted around the various pits and dumps and the mine haul road crosses this branch. The mine access road crosses the west fork in three locations and a culvert under the Town of Faro access road crosses the main stem. Lower Vangorda Creek (reaches 1, 2 and 3 on Figure 24) is low gradient (1.5% to 2.7%) with large gravels, cobbles and boulders that provide important rearing habitat for chinook and some overwintering habitat for the resident Arctic grayling. Some spawning habitat is available in this section (reach 1) and rearing and summer habitat is offered by the pools and in-stream cover (reaches 2 and 3).

Above reach 3, the culvert under the Town of Faro access road and waterfalls just upstream are barriers to upstream fish migration. The channel gradient becomes progressively steeper upstream (4% in the mid-section and 6% in the headwaters) with larger substrate and log debris from adjacent burn areas (Harder 1987).



2.6.4.3 Fish Presence

Several isolated fish populations exist in Rose Creek Fish species present in the upper Pelly River watershed include chinook and chum salmon, lake trout, lake, broad, humpback and round whitefish, least cisco, inconnu, Arctic grayling, northern pike, burbot, longnose sucker and slimy sculpin. Arctic grayling (*Thymallus arcticus*), burbot (*Lota lota*), slimy sculpin (*Cottus cognatus*), longnose sucker (*Catastomas catostomus*) and round whitefish (*Prosopium cylindraceum*) have been captured during sampling studies in the Rose Creek watershed (Figure 24). In addition to these species, juvenile chinook salmon (*Oncorohynchus tshawytscha*) have been captured in lower Vangorda Creek (reaches 1, 2 and 3). As noted in Table 33, reported fish studies have been conducted between 1974 and 2002 in the regional aquatic study area.

Due to barriers in the system (noted above and indicated on Figure 24), the following isolated populations exist in Rose Creek:

- North fork reaches 2, 3 and 4;
- South fork reaches 3 and 4 (downstream movement possible); and
- South fork reaches 6 and 7.

Fish within the main stem of Rose Creek, reach 1 of the north fork and reaches 1 and 2 of the South Fork can also move into Anvil Creek. Culverts on one flow option of lower reach 1 of the North Fork (series of ponds) limit upstream movement when all flows are diverted this route rather than via the diversion channel. No fish have been captured during sampling upstream of a culvert and falls barrier in Vangorda Creek.

Arctic grayling are the predominant species captured in the Rose Creek Arctic grayling watershed and have been captured in all reaches sampled (distribution noted on Figure 24). Grayling is the only species fished for sport in Rose Creek and fishing is most popular in the lower end of the south fork and within the reservoir (Harder 1991a). Once they reach maturity (age three to four in the study area), Arctic grayling spawn annually between early May and early June in the Rose Creek drainage (Weagle 1981, Harder 1988). Spawning grayling have been observed in reach 3, reaches 1, 4 and 6 of the south fork and reach 3 of the north fork. This is not likely the limit of spawning areas as spawning high value spawning habitat is located in additional reaches, as noted in the previous section. Although juveniles have only been captured in one study within the D Reservoir (reach 3 of south fork, P.A. Harder 1991a), the presence of adults and spawning throughout the drainage indicate that all life phases must be present. Grayling are also located in lower (reaches 1 to 3) of Vangorda Creek, downstream of culvert and falls barriers. Information such as fish sex, catch per unit area and comparisons of grayling weight vs. length and age was collected in early studies by P.A. Harder and Associates. Some length, weight, sex and age data is available from the 2002 sampling and is presented on Table 38.

Slimy sculpin have also been captured in reaches sampled within Rose Creek and within lower Vangorda Creek. Burbot have been captured in lower

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Watercourse	Reach	Site	Date	Sampling Methods	Species	Length (mm)	Weight (g)	Sex	Age (yrs)	Capture
					Number	average (range)	average (range)	0.5.1	average (range)	Method
Rose Creek	2	Rl	Aug 8 / 02	spot shocked 70 m long x 10 m wide (264 sec)	no fish	B\B-/				electrofish
Rose Creek	2	R2		spot shocked 65 m length (288 sec)	no fish					electrofish
Rose Creek	2	R2b		set 5 MT for 18 hrs - captured 2 BB	2 BB	151 - 261				minnow trap
			Ū	3 rod hours captured 2 AG	AG	320	365.4	F		angling
				•	AG	260	167.4	M		angling
				spot shocked 160 m by 10 m (913 sec)	no físh					
Rose Creek	3	R3	Aug 7/02	shocked 50 m (180 sec)	AG	~150				observed
(Diversion)			ũ		SS	~40			· · · · ·	observed
. ,				fish observed in shallows	no fish					electrofish
N Fork Rose Creek	2	N4	Aug 8 / 02	spot shocked 100 m length x 6 m wide (405 sec)	SS	100	9.9			electrofish
N Fork	3	N5		spot shocked 90 m x 5 m (685 sec)	26 SS	80 (55 - 106)	6.1 (3.5 - 10.1)			electrofish
Reservoir	3	RES MT	Aug 9/02	10 traps set for 25 hours	6 SS	70 (50 - 110)	3.5 (1.2 - 10.1)		· · · · · ·	minnow trap
Reservoir	3	RES 1		90 m floating net set for 75 mins	AG	275	215.3	М	3	gill net
					AG	294	275.7	М	-	gill net
Reservoir	3	RES 1	Aug 9-10/02	15 m floating net set for 13 hours	10 AG	268 (175 - 311)	222 (59 - 337)	F	3 (1 aged)	gill net
			-	_	5 AG		127.2 (73.2 - 286.5	М	2, 2, 5	gill net
					BB	260				gill net
Reservoir	3	RES 2	Aug 9 / 02	90 m floating net set for 30 mins	no fish					gill net
Reservoir	3	RES 3	Aug 9 / 02	90 m set floating set for 90 mins	AG	275	212	F	-	gill net
Reservoir	3	RES 2		15 m sinking net set for 13 hours	20 AG	295 (270 - 330)	265 (181 - 387)	М	4.5 (3-6), 8 fish	gill net
					19 AG	285 (270 - 324)	269 (181 - 365)	F?	4 (2-6), 8 fish	gill net
					7 AG	184 (175 - 205)	67.2 (65 - 94)	im	2.4 (2-3), 4 fish	gill net
S Fork Rose Creek	4	S6	Aug 7/02	spot shocked 50 m x 5 m (381 sec)	2 SS	35 - 90			<u> </u>	electrofish
S Fork Rose Creek	6		Aug 8 / 02		no fish					
Vangorda Creek	Ī	V8		single pass 100 m x 5 m wide (344 sec)	20 SS	68 (58 - 85)	3.3 (2 - 6.2)			electrofish
	-				45 CH	60 (54 - 66)	2.5 (1.7 - 4.2)			electrofish
				3 seine hauls - 15 to 30 m^2 each	AG	285	219.9	М		seine
					64 CH					seine
					SS					seine
				4 traps set for 27.5 hours	4 AG	juvenile				minnow trap
					81 CH	,				minnow trap
				1 rod hour	AG	255	154.9	F		angling
					5 AG		55.1 (42.1 - 90.2)	im		angling
Blind Creek	1	BC	Aug 7 / 02	1 rod hour	4 AG		230.2 (116 - 398)	F		angling
					2 AG	225, 300	150.4, 307	М		angling
					AG	255	153.1	im		angling
			Aug 8/02	4 traps set for 22 hours	SS	70	3.2			minnow trap
					37 CH		1.6			minnow trap
				20 seine hauls - 50 to 150 m^2 each	8 SS	44 (15 - 78)	1.4 (0.1 - 2.7)			seine
					2 AG	68	2.7			seine
				captured 2 AG, 90 CH, 4 RW, 8 SS	90 CH	fry	1.5		<u> </u>	seine
		1		ouplaide 2 reg 20 orig 4 ren; 0 00	4 RW	40	0.6		1	seine

Table 38. Summary of 2002 Fish Sampling Activities and Results

AG - arctic grayling BB - burbot

CH - chinook salmon

RW - round whitefish

SS - stimy sculpin



Vangorda Creek and reach 2 of Rose Creek, reach 1 on the north fork and Slimy sculpin, burbot reaches 2, 3 and 4 of the south fork. Round whitefish have been noted in lower and round whitefish Vangorda Creek, reach 3 of Rose Creek and reach 1 of the north fork. Longnose presence sucker have been captured in lower Vangorda Creek and reach 1 of the North Fork. Other than capture information, including location, length and in some cases, weight, little information has been collected for these species in the regional study area.

Chinook salmon fry are present in large numbers in lower Vangorda Creek (at Chinook salmon fry in the mouth) each year from the spring or early summer where they rear until lower Vangorda Creek outmigration in the fall. These fish are migrating from spawning grounds, including Blind Creek. DFO has collected information on the Blind Creek chinook stocks over a number of years. During aerial surveys and sampling, a few chinook spawners and chinook fry have been noted in Anvil Creek. As access is possible to Rose Creek, chinook may enter the lower end of the creek.

Table 38 summarizes fish sampling and catches from the 2002 field visit, which During the 2002 field was conducted primarily to collect metals in fish tissue data and confirm habitat visit, fish tissue for mapping. Therefore, not all sites sampled in the past were sampled during samples were collected this trip. No fish were captured during electrofishing at sites R1, R2 and R2b of for metals analyses reach 2 in Rose Creek. Minnow trapping at R2b captured two burbot and angling captured two grayling. Arctic grayling and sculpin were observed in reach 3 (R3, diversion channel) during electrofishing.

> Within the North Fork, slimy sculpin were captured during electrofishing in reaches 2 (site N4, 1 fish) and 3 (site N5, 26 fish), with the highest sculpin numbers (as compared to all other 2002 sites) per electrofishing effort at site N5. Electrofishing in the south fork reaches 4 (site S6) and 6 (site S8), resulted in the capture of two sculpin at S6. Minnow trapping in the reservoir captured six slimy sculpin and gill netting captured 63 Arctic grayling and one burbot.

> Electrofishing, beach seining, minnow trapping and angling efforts were undertaken at site V8 on Vangorda Creek to collect fish for metals analyses. A total of 21 sculpin, 11 grayling and 190 chinook salmon fry were captured. Blind Creek sampling (outside of the study area) was conducted to collect reference site fish for metals analyses. Grayling, sculpin, chinook and round whitefish were captured during the multiple method efforts.

2.6.4.4 Historical Metals in Fish Tissue

The analysis of metals in fish tissue has been carried out in 1975, 1976, 1977, 1989, 1992, 1997 and 2002 within the regional aquatic study area and reference site in Anvil and Blind creeks. The sampling locations, species, tissue type and metals analyses were not consistent in the historical (1975 to 1997 data) and therefore temporal and spatial trends are difficult to determine. Chinook, Arctic grayling, slimy sculpin, longnose sucker, round whitefish and burbot have all been collected for tissue analyses, which have been conducted on whole body, liver or muscle tissue.



No trends of higher metal levels were noted in fish collected from Rose Creek downstream of the tailings (site R2b) as compared to fish from the FWSD Reservoir during 1997. Likewise, there is no consistent trend in the metals data collected in fish from Vangorda Creek (site V8) during 1975, 1976 and 1997. Values that stand out in the dataset (one or two orders of magnitude higher than others) include higher values of both lead in sculpin (23 mg/kg) and whitefish from Vangorda Creek during 1992.

2.6.4.5 Existing Metals in Fish Tissue

The 2002 sampling program for metals in fish tissue revealed no trend for arsenic. Cadmium concentrations were greatest at the reference site and V8 The 2002 sampling program following a control/impact sampling layout. Five samples from each site were targeted to provide data for comparison between and within sites. Slimy sculpin and arctic grayling were targeted as they have previously been collected at each of the Rose, Vangorda and Blind sampling sites and they represent a bottom-feeding species (sculpin) that may show accumulation of any heavy metals present in sediment and benthic invertebrates as well as a species consumed by humans (grayling). Sculpins were analyzed as whole body samples while muscle and liver tissue were used from Arctic grayling (muscle to represent the tissue generally consumed by humans and liver to represent the tissue where some metals are known to concentrate). Fish collection for metals analysis was successful at:

- Rose Creek just below the tailings facility (site R2b);
- The freshwater supply reservoir (site RES);
- Upper north fork above mine activity as a reference site for the Faro Mine Site (site N5);
- Lower Vangorda Creek (site V8); and
- Lower Blind Creek as reference site for the Vangorda Mine Site (site BC).

At each site (noted on Figure 24) the capture of between five and ten fish was targeted in order to have sufficient fish tissue to make up five samples weighing 5 grams (as required by the lab for low detection) of liver and muscle tissue. In some cases the fish were too small to provide the required amount of tissue and tissue from two or more fish was composited. Due to very low catch success at some sites, five to ten samples per site were not achieved in all cases. Table 39 outlines the results of key metals (arsenic, cadmium, copper, lead, zinc and mercury) of interest in fish tissue. Details are provided in the 2002 aquatic studies technical memorandum (GLL 2002c).

There is no increasing trend in metals in fish tissue within waters draining the Faro and Vangorda Plateau mine sites No trend is evident in arsenic concentration between sites. Whole body sculpin contained greater concentrations of arsenic than Arctic grayling muscle and liver (by an order of magnitude). This difference could be attributed to the differences of tissue types in concentrating metals. Cadmium levels were noticeably highest in all Blind Creek (reference site) Arctic grayling liver samples and one V8 sample. Levels in both slimy sculpin and Arctic grayling muscle were greatest at V8.

Table 39. Selected Metal Concentrations in Fish Tissue Collected during 2002

Tissue type						Sli	my Sculpir	1 whole body						
Sample ID	N5-1	N5-2	N5-3	N5- 4	N5-7	N5 average	RES MT- :	RES MT- 3,4	RES MT- 1,2,6	RES average	BC- 9	BC-8,10	BC average	V8-1
Arsenic	0.12	0.2	0.23	0,17	0.21	0.186	0.12	0.4	0,16	0.23	0.16	0.12	0.14	0.11
Cadmium	0.02	0.029	0.03	0.022	0.021	0.0244	0.024	0.037	0.028	0.030	0.147	0.086	0.1165	0.453
Copper	0.56	0.71	0,78	0.6	0.68	0.666	1.41	1,26	0.87	1.18	1.35	0.65	1	0.73
Lead	0.03	0.04	0.05	0.05	0.03	0.04	0.16	1.32	0.37	0.62	0.04	0,03	0.035	0.27
Mercury	0.023	0.025	0.031	0.02	0.028	0.0254	0.056	0.018	0.021	0.032	0.038	0.031	0.0345	0.046
Zinc	33.5	32.6	29.2	26.2	19.4	28.18	36.3	41.4	34.4	37.37	19	27.6	23.3	71.4

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Tissue type									Arctic	Grayling M	uscle									
Sample ID	RES 2-18	RES 2-19	RES 2-20	RES 2-21	RES 1-1	RES average	R2b-3	R2b-4	R2b average	BC-1	BC-2	BC-3	BC-4	BC-6	BC average	V8-17	V8-18	V8-20	V8-22	V8 average
Arsenic	0.03	0,02	0.03	0.03	0.03	0,028	0.05	0.04	0.045	0.03	0.05	0.03	0.03	0.05	0.038	0.03	0.03	0.03	0.06	0.0375
Cadmium	< 0.005	<0,005	<0.005	<0.005	< 0.005	<0,005	0.007	0.013	0.01	0.02	0.008	0.008	0.009	0.01	0.011	1.35	0.018	0.013	0.022	0.3508
Copper	0,73	0.53	0.51	0.62	0.69	0.616	0.76	0.69	0.725	0.32	0.4	0.24	0.23	0.32	0.302	3.07	0.5	0.53	0.5	1.15
Lead	0.13	0.04	0.1	0.09	0.02	0.076	0.07	0.08	0.075	< 0.02	<0.02	<0.02	<0.02	< 0.02	< 0.02	0.09	0.03	0.02	0.04	0.045
Mercury	0.053	0,058	0.055	0.064	0.034	0.0528	0.025	0.02	0.0225	0.03	0.018	0.024	0.02	0.02	0.0224	0.094	0.027	0.019	0.021	0.0403
Zinc	11.1	10.3	8.7	9	15.9	11	15.7	13.5	14.6	8.7	14.7	11.9	8.1	12,3	11.14	28.9	17.7	21.8	28.7	24.28

Tissue type						Arctic Gray	ling Liver					
Sample ID	RES 2-18,20	RES 2-22,24	RES 2-19,21	RES 1-1,2; 2-23	RES average	R2b-3,4	BC-1,3	BC-2,4,6,7	BC average	V8-17 to 23	V8-18 to 22	V8 average
Arsenic	0.04	0.05	0.04	0.04	0.043	0.05	0.04	0.03	0.035	0.02	0.03	0.03
Cadmium	0.156	0.071	0.237	0.132	0.149	1.25	1,22	1.48	1.35	0.039	1.62	0.83
Copper	2.08	2.04	2.57	1.87	2.14	5.32	2.21	3.4	2.81	0.3	3.39	1.85
Lead	0.23	0.18	0,08	0,06	0.138	0.18	<0.02	<0,02	<0.02	0.02	0.04	<0.02
Mercury	0.131	0.069	0.083	0.078	0.0903	0.054	0.05	0.051	0.0505	0.032	0.061	0.0465
Zinc	25.9	20.8	21.5	23.1	22.83	28.8	22.8	27.2	25.0	9.7	30.1	19.9

collected August 7 to 10, 2002 Metals results expressed as milligrams per wet kilogram. < = Less than the detection limit indicated. averages calculated using 1/2 the detection limit where values are less than detection

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Copper levels are generally greatest in Arctic grayling liver but the data does not indicate a spatial trend. Lead levels are greatest in sculpin and grayling liver samples from the FWSD Reservoir and sculpin from V8. Sculpin samples from the FWSD Reservoir exhibit higher levels of lead and copper than sculpin from N5, however the copper levels are similar to sculpin from the Blind Creek reference site.). Results from one of the four Arctic grayling muscle samples from Vangorda Creek (V8) are 10 times the levels of copper and lead results in grayling muscle samples from Blind Creek.

Mercury levels are similar in fish tissue types at all sites with slight elevations (much less than an order of magnitude) apparent in grayling liver as compared to sculpin and grayling muscle. Health Canada has set a consumption guideline at 0.5 mg/kg mercury per day in fish tissue. The highest mercury value in the sample set is 0.131 mg/kg wet weight, the result of two composite livers collected from Arctic grayling in the freshwater reservoir. The highest sample value is approximately 26% of the consumption guideline. Based on this data set, four or more fish from the sampling sites could be consumed by one person each day without risks associated with mercury.

Zinc levels are within the same range in all tissue types from the various sampling locations, with the level in the one V8 sculpin sample slightly elevated (much less than an order of magnitude). In summary, the results do not indicate a trend of increased levels of metals in sculpin or Arctic grayling within waters draining the Faro and Vangorda Plateau mine sites relative to the reference sites (N5 and BC) or the FWSD Reservoir.

2.7 TERRESTRIAL RESOURCES

2.7.1 TERRESTRIAL STUDY AREA

Definition of the terrestrial resources regional study Terrestrial resources include vegetation, wildlife habitat and wildlife environmental components. A wildlife study area is usually delineated by the extent of the wildlife population under study. These data are not available for all local species; there are no population distribution data available for moose, stone sheep or grizzly bears. The terrestrial resources regional study area is bounded by the Pelly River to the south, Mount Mye to the north, with Rose Mountain to the west and Sheep Mountain to the east (Figure 4), which captures the local Fannin sheep population. Vegetation and wildlife studies completed within the study area are included in Table 40.



Study Topic	Location	Study Date	Reference
Terrain and vegetation mapping	Anvil Range Mine	1976	Montreal Engineering Company
(1:10,000)	Complex		Ltd., 1976
Regional ecosystem mapping	Yukon Plateau area	2002	AEM, 2002
(1:250,000)	containing Anvil Mine		
	Complex and Town of Faro		
Wildlife habitat mapping	Sheep Mountain (42.7	1990-1998	Staniforth (YTG), 1998
(1:20,000)	Km ²)		
Wildlife Habitat	Includes Faro area	1999	YTG Renewable Resources
Metals in vegetation	Anvil Range Mine	2002	CE Jones & Associates Ltd., 2003
	Complex		
Wildlife	Vangorda Mine Site	1971	Montreal Engineering Co. 1971
Sheep population inventory	Sheep Mountain, Mount	1975	Studds, 1975
	Mye, Rose Mountain		
Sheep population inventory	Sheep Mountain, Mount	1976	Montreal Engineering Company
	Mye, Rose Mountain		Ltd., 1976
Sheep migration	Mt. Mye	1981	McCleod, 1981
Sheep migration	Vangorda Mine Site	1987	Curragh Resources Inc. 1987
Sheep impact assessment	Vangorda Mine Site	1988	Horesji, 1988
Sheep winter and summer	Faro area (Sheep	1980, 1987	YTG Renewable Resources –
range inventories, including	Mountain, Mount Mye,	1988, 1989	Hoeffs, Horejsi, Lortie,
habitat and forage	Rose Mountain)	1990, 1991	Schweinsburg
Moose Survey	Faro area	Dec 1997	YTG Renewable Resources -
			Ward, 1997
Moose Survey	Faro area and area adjacent	Nov 1998	YTG Renewable Resources -
	to GMS 4-45	and	Ward, 1998 and 1999
		Dec 1999	
Caribou Census	Faro and surrounding area	1991	Kuzyk at al, 1997

 Table 40.
 Wildlife and Vegetation Studies Completed

2.7.2 SOILS / TERRAIN

Significant surficial material in the study area consists of bedrock, glacial till, and glaciofluvial deposits The landforms and surficial deposits of the Vangorda Plateau have been shaped and are attributable to the last ice age which is estimated to have existed in the Yukon between 35,000 and 10,000 years ago. The southern Yukon was covered by at least four Cordilleran (i.e. mountain) ice sheets. These glaciations, from oldest to the youngest, are named the Nansen, the Kalza, the Reid and the McConnell. (Bond 2001). The landforms of the Faro area are for the most part attributed to the youngest of the Yukon glaciations, the McConnell.

Significant surficial material in the study area consists of bedrock and associated colluvium, glacial till, and glaciofluvial outwash sands and gravels (Figure 10). Glaciolacustarine, modern alluvial and organic deposits, are found sporadically but are not discussed in detail herein. The following discussion of surficial materials is derived from the *Quaternary geology and till geochemistry of the Anvil district, central Yukon Territory* (Bond 2001):



Bedrock – bedrock and/or frost shattered bedrock (felsenmeer) is frequently found at surface in the alpine areas of the Anvil Range. Elsewhere, mountain slopes are covered in thin veneer of colluvium (materials derived from slope movement processes) derived from the local bedrock. Glacial deposits are relatively absent above 1,500 m, although meltwater channels were identified as high as 1,700 m. Solifluction is common above the tree line.

Morainal Deposits (Till) – glacial till is poorly sorted deposits of clay, silt, sand, gravel and angular boulders which is deposited directly from glacial ice. A thick blanket of till is found covering the Vangorda Plateau. In some locations where pre-glacial valley existed, the till deposits can be over 100 m thick (e.g. Grum valley). Generally till deposits thin to a veneer (<1 m) along the valley walls and are generally absent above 1,500 m. Till also commonly underlies glaciofluvial deposits in areas of former meltwater drainage. The area surrounding the Grum and Vangorda Deposits is characterized by a thick till blanket overlying bedrock.

Glaciofluvial Deposits – during the retreat of the glaciers, melting water derived from the decaying ice transported and deposited sand and gravel in the valley bottoms and associated lateral meltwater channels. These deposits are typically stratified to crudely stratified deposits varying from sand with some silt to cobble gravels. These materials are found as significant valley fills as in the Rose Creek valley, as kame terraces at the mouth of alpine valleys or as glacial terraces and complexes associated with the Vangorda Creek valley and the Tintina Trench. Glaciofluvial deposits host the Rose Creek aquifer which underlies the Faro Mine tailings facility. The Faro townsite is located on a major glaciofluvial (and glaciolacustarine) terrace with a well developed stagnant ice (i.e. hummocky terrain) glacial fluvial complex to the northwest of the townsite. The valley bottom glaciofluvial deposits are frequently covered by silts, sands and gravel derived from contemporary stream.

The majority of the natural soil located in the Anvil Range Mining Complex consist of granular soils; *i.e.* locally derived tills, glacial outwash deposits and fluvial deposits. The region is within an area of discontinuous permafrost.

2.7.3 VEGETATION

2.7.3.1 Historical Vegetation Disturbance

Permanent clearing of vegetation occurred over the course of mine development Over the course of mine site development, permanent clearing of vegetation was required. Roughly 1,460 hectares of vegetation was removed for the development of the Faro and Vangorda Plateau mine sites and the haul road. Portions of the following vegetation communities were included in the clearing: subalpine transition, floodplain forest (riparian zones), and upland forest. Vegetation was also cleared for the purposes of developing access roads in the vicinity of the mine complex, including the main mine access road between the Town of Faro and the Faro Mine site, the Blind Creek access road to the Vangorda site, and the various accesses on the mine sites themselves. Most of these access roads extend through upland forest and subalpine transition



communities, according to the MEC Ltd. 1976 1:10,000 mapping (Figure 25). Vegetation removal was also required for the network of exploratory cutlines to the north and northeast of the Faro mine site through out the subalpine transition vegetation community. The development of the Fresh Water Supply dam caused eventual flooding of 51 ha plus earth fill of 5 ha of what was likely floodplain forest (riparian zones).

Indirect impacts to vegetation likely also took place during development and operation of the mine sites. For example, soil compaction due to heavy machinery can potentially impact adjacent root zones, local drainage changes can potentially impact the composition of local plant populations, contaminated seepage zones have potential to affect plant growth and health and plant species composition, and dusting from the mine site can potentially cause elevated metal concentrations in vegetation.

2.7.3.2 Existing Vegetation Communities

Six vegetation zones were identified within the study area The regional study area is located within the Yukon Plateau (North) Ecoregion, in the Boreal Cordillera Ecozone (ESWG 1995). The region lies within the zone of discontinuous, widespread permafrost. Depressional areas consist of peat bogs, fens and local palsas. Lowlands frequently contain hummocks and sedge tussocks. Upland areas commonly include scree slopes and steep south-facing slopes with vegetation dominated by grasses. Treeline occurs at 1350 to 1500 mASL.

Six vegetation zones were mapped within the study area at a scale of 1:10,000 based on the field studies and mapping undertaken by Montreal Engineering Company (MEC) Ltd. in 1976 (Figure 25). The vegetation zones include flood plain forest, upland forest, bog forest, alpine tundra, subalpine transition, and alluvial plain shrub. The structure and species composition of these vegetation zones are outlined below.

Flood Plain Forest

The flood plain forest zone represents the most developed forest stands in the study area The flood plain forest zone in the study area is restricted to the alluvial landforms along the Pelly River and the lower reaches of Blind Creek, and represents the most developed forest stands in the study area. White spruce (*Picea glauca*) forests occur where flooding is less common and subalpine fir (*Abies lasiocarpa*) stands occur in frequently flooded areas. Lodgepole pine (*Pinus contorta*), balsam poplar (*Populus balsamifera*), trembling aspen (*Populus tremloides*) and paper birch (*Betula papyrifera*) also occur in the flood plain forest zone. Dense shrub stands, consisting primarily of willow (*Salix* spa.) and balsam poplar, are common in riparian zones where active deposition is occurring. Feathermoss layers are extensive within the older stands of white spruce.



Upland Forest

The upland forest zone is dominated by either white spruce, lodgepole pine, or subalpine fir

Upland forests are found on the morainal landforms above the Pelly River and the upper Vangorda Creek area. Much of this forest was burned in a 1969 fire. Upland forest is also found on the glaciofluvial landforms along Rose Creek. The upland forest zone is dominated by stands of either white spruce, lodgepole pine, or subalpine fir. A well developed layer of tall and medium shrubs includes trembling aspen, shrub birch (Betula glandulosa), Scouler's willow (Salix scouleriana), and other willow species. The dwarf shrub strata of the upland forest consists of dwarf dogwood (Cornus canadensis), crowberry (Empetrum nigrum), Labrador tea (Ledum groenlandicum), blueberry (Vaccinium uliginosum), low-bush cranberry (Vaccinium vitis-idaea), prickly rose (Rosa acicularis), arctic willow (Salix arctica) and net-veined willow (Salix reticulata). Herb development is not extensive in the upland forest zone. Herb species in this zone include fireweed (Epilobium angustifolium), arctic lupine (Lupinus arcticus), arrow-leafed coltsfoot (Patentees sagittatus), and sedges (Carex spp.). The moss layer, particularly feathermoss, is extensive in the closed-canopy portions of the upland forest. Lichens include spotted dog lichen (Peltigera aphthosa), coral lichen (Stereocaulon paschale) and Cladonia spp.

Bog Forest

The bog forest zone is located adjacent to the Pelly River

The alpine tundra

above the treeline

vegetation zone occurs

The bog forest is limited to the organic landforms adjacent to the Pelly River. It is characterized by peat accumulation and stunted black spruce (*Picea mariana*). Black spruce is commonly the only tree species found in the bog forest. Shrub species include shrub birch, northern Labrador tea (*Ledum decumbens*) and cloudberry (*Rubus chamaemorous*). The herb layer is poorly developed in the bog forest zone. It consists mainly of sedges. A characteristic feature of the bog forest is the extensive layers of moss, usually *Sphagnum* spp. It is these moss layers that accumulate into peat. Bog forests are commonly underlain by permafrost.

Alpine Tundra

The alpine tundra vegetation zone occurs above the treeline, primarily on the upper slopes of Mt. Mye and Rose Mountain. Smaller communities of alpine tundra vegetation are found in areas such as Sheep Mountain (the mountain just north of the Blind Creek Bridge). Alpine tundra consists of vegetation communities dominated by dwarf shrubs and lichens. Shrubs include dwarf birch (*Betula pumila*), mountain avens (*Dryas octopetala* and *Dryas integrifolia*), crowberry, low-bush cranberry, blueberry, arctic willow, snow-bed willow (*Salix polaris*) and other willow species. Lichens, predominantly *Cetraria spp.*, are prevalent in well-drained rocky sites. A variety of herb species occur in the alpine tundra zone, including arctic lupine, Langsdorf's lousewort (*Pedicularis langsdorffii*), alpine harebell (*Campanula lasiocarpa*), black-tipped groundsel (*Senecio lugens*), wormwood (*Artemisia sp.*) grass (*Arctagrostis latifolia*) and sedges.



transition zone occurs

in steep mountain

slopes with shallow

The subalpine

soil

Subalpine Transition

The subalpine transition, associated with colluvial landforms, occurs on the steep upper mountain slopes between the upland forest and the alpine tundra. It is also found at lower elevations where there are steep slopes and shallow soil. The mid-slopes of Mt. Mye and Rose Mountain (below the treeline), as well as the uplands adjacent to Rose Creek alluvial plain, are included in this zone. Well developed forests of white spruce and feathermoss occur at lower elevations in the subalpine transition zone. Tall and medium shrubs in these lower elevation forests include shrub birch and Scouler's willow, and the dwarf shrub layer consists of arctic willow, crowberry, Labrador tea and blueberry. The herb layer, not well developed at lower elevations, is limited to sedges and shade-tolerant species such as arctic lupine and bluebell (*Mertensia paniculata*).

At higher elevations in the subalpine transition zone, vegetation is dominated by tall and medium shrub strata containing such as species as trembling aspen, shrub birch, Scouler's willow and other willow species. Alpine fir, lodgepole pine, white spruce and black spruce are also found in the upper subalpine transition zone. Dwarf shrubs include crowberry, Labrador tea, blueberry, net-veined willow and kinnikinick (*Arctostaphylos uva-ursi*). The herb layer at higher elevations in the subalpine transition zone is much more developed. It includes fireweed, arrow-leafed coltsfoot, Labrador lousewort (*Pedicularis labradorica*), dwarf dogwood, one-sided wintergreen (*Pyrola secunda*), rayless alpine butterweed (*Senecio pauciflorus*), aster (*Aster sp.*), running clubmoss (*Lycopodium clavatum*), grass (*Arctagrostis latifolia*), and sedges. Lichens in the subalpine transition zone include spotted dog lichen and *Cladonia* spp.

Alluvial Plain Shrub

The alluvial plain shrub zone includes the upper reaches of the Vangorda Creek valley and the south fork of Rose Creek and its tributaries The upper reaches of the Vangorda Creek valley and the south fork of Rose Creek and its tributaries are included in the alluvial plain shrub vegetation zone. Shrub birch, shrubby cinquefoil (*Potentilla fruiticosa*), Scouler's willow and other willow species dominate the vegetation communities in the alluvial plain shrub zone. Scattered stands of white spruce and alpine fir also occur. Dwarf shrubs consist of crowberry, Labrador tea, low-bush cranberry, dwarf dogwood, dwarf blueberry (*Vaccinium caespitosum*) and arctic willow. Herbs species include arrow-leafed senecio (*Senecio triangularis*), tall Jacob's ladder (*Polemonium acutiflorum*), sweet coltsfoot (*Petasites hyperboreus*), alpine harebell, wormwood, arctic lupine, clubmoss, common horsetail (*Equisetum arvense*), grass (*Arctagrostis* sp.) and sedges. Feathermoss may form extensive mats in the alluvial plain shrub zone. Lichens, not well represented in this zone, include *Cladonia alpina* and other *Cladonia* species.

Additional mapping was conducted in 2002 by AEM

Additional mapping has been completed within the regional study area since the Montreal Engineering study (MEC Ltd. 1976). Staniforth (1998) described vegetation communities on Sheep Mountain to 1:20,000 scale. AEM (2002) described regional ecosystem types within the Yukon Plateau - North ecoregion at a 1:250,000 scale (Figure 26) within the regional study area.



The ecosystem mapping coverage describes the land base by ecozone (boreal, subalpine or alpine), landscape position (upland or lowland) and landscape type (depressional, riparian or terraced). Within the regional study area, the boreal zone contains forested, low elevation valley bottoms and low-lying terrain. Most waterbodies and wetlands are associated with this zone. The subalpine zone refers to the zone between the relatively closed-canopy forests in the boreal zone and the dwarf shrub, herb and non-vegetated rock areas in the alpine zone. The subalpine zone represents a broad gradient between low and high elevation conditions. The subalpine zone is dominated by tall shrub vegetation with scattered spruce and fir forests at its lower limits, grading into lower stature shrub and herb communities at upper elevations. The alpine zone is defined by treeless conditions with rock, low shrub and herb communities being characteristic features.

The available mapping can provide information on the types of habitat and foods that may be available to wildlife within the regional study area. However, it has limitations to its application as an empirical tool for wildlife habitat evaluation and assessment of impacts.

2.7.3.3 Metals in Vegetation

Study Objectives

A field program was conducted to determine if soils and plants near the mine have elevated elemental concentrations in comparison to background levels

Four components of the sampling program

In 2002, C.E. Jones and Associates Ltd. designed and implemented a field program to determine if soils and plants in the vicinity of the Anvil Range Mine Complex have elevated elemental concentrations in comparison to reference levels from the Faro area (C.E. Jones and Associates Ltd. 2003). The study was intended primarily as a preliminary investigation to determine whether any identifiable airborne contamination of soils and vegetation has occurred as a result of mine development and operation. The sampling design of this study was based on the premise that the probable primary mine-site sources for airborne contaminants were the Rose Creek Tailings Facility, with contaminant delivery to off-site areas through dusting. However, it should be emphasized that there are additional potential dust-borne contaminant sources, including the mill/crusher site, concentrate load-out facility and open pits.

This study included reconnaissance-level sampling on areas adjacent or within both the Faro and Vangorda Plateau Mine sites, as well as more intensive sampling centred on the Faro (Rose Creek) tailings impoundments, and reference sampling. This study area is shown in Figure 27. The field component of the study was conducted on August 11-17, 2002. The sampling program included four primary components:

1. Reference sampling (shown as black diamonds in Figure 27). Included nine (9) sample points to the southeast of the mine complex, from which 45 vegetation samples and 18 soil samples were collected.



Composite foliar

- 2. Rose Creek Tailings Transect sampling (shown as purple triangles in Figure 27). Included 33 sample points centred on the Rose Creek intermediate tailings impoundment, from which 140 vegetation samples and 68 soil samples were collected.
- 3. Additional Mine Area sampling (shown as black stars in Figure 27). Included 17 sample points on the Faro and Vangorda mine sites, from which 57 vegetation samples and 8 soil samples were collected.

At each sampling point, composite foliar samples were collected from scrub birch (Betula glandulosa), grey-leaved willow (Salix glauca), Altai fescue samples were collected (Festuca altaica), and green reindeer lichen (Cladina mitis). On tailings at each sampling point transects, reference, and selected mine-affected sample points the following additional samples were collected: a root sample of grey-leaved willow; a surface soil sample (0-2 cm depth from soil surface); and a sub-surface soil sample (5-10 cm depth from soil surface).

Overview Results

Study results show soil and vegetation concentrations elevated above background levels for arsenic, silver, cadmium, chromium, copper, mercury, nickel, lead and zinc. Lead and zinc had the largest magnitudes of elevation (over two orders of magnitude greater than maximum background concentrations for soil and lichen) and had elevated levels furthest from the mine site, in comparison to other analyzed elements. Examination of collected data indicates that the probable origin of these elevated concentrations is airborne dust contamination from mine site sources. The spatial distribution of elevated elemental concentrations shows that metals transport and deposition has been concentrated from northwest to north of the mine complex and Rose Creek drainage. Elemental concentrations in surface soil and lichen samples on transects to the southeast to west-southwest of the tailings impoundments are substantially lower than those across the valley, and elevated concentrations are clustered closer to contaminant sources, indicating that there has been less airborne contamination in these directions. However, even on these transects, soil and lichen lead (and frequently zinc) levels on the furthest points from the mine site (approximately 2-3 km) remain well above the study background concentrations. In synthesis, the spatial distribution data indicate that elevated elemental levels (particularly lead and zinc) resulting from airborne contamination occur in a zone that extends at minimum 2-3 km in all directions from potential mine-site contaminant dust sources, and that is concentrated and extended to the northwest to north of the tailings impoundments and mill complex. This finding of elevated soils and vegetation metals levels is not unexpected, given that mining and milling operations were conducted on a large scale at the Anvil Range site for almost 30 years, and that other studies of airborne contamination from lead-zinc mining/milling activities have documented similar off-site impacts.



It should be emphasized that while this study clearly indicates that mine development and operations at the Anvil Range mine complex have resulted in metals contamination of mine-area soils and vegetation, further work would be required to refine study conclusions, such as definition of the full areal extent of contamination. Data collected in this study do not allow determination or speculation on the specific sources of documented contamination. Therefore, results should be generally interpreted as being indicative of the occurrence of mine-site contamination of off-site (non-mine or undisturbed) areas, but not of the specific source(s) of this contamination. Likewise, the temporal nature of contamination cannot be determined, and it is unknown whether all dust contamination has been historic (due to active mining operations), or whether there are remaining contaminant sources still contributing to off-site metals additions.

Detailed Results and Discussion

Particular emphasis is placed on lead and zinc in this discussion Although metals analyses were conducted on a suite of metals, summary results here focus on lead and zinc as they are the primary metals associated with the deposits and those that were mined. In general, other analyzed metals (including silver, arsenic, cadmium copper, mercury and nickel) show similar trends.

With the exception of selenium (possibly marginally elevated), all elements in soil samples collected in the Swim reference sampling location are within published normal ranges (see Table 41). Analytical results for vegetation samples taken in the Swim Lake reference sampling site are presented in Table 41, and compared to cited levels for normal background elemental concentrations. The majority of reported results for elemental concentrations in vegetation at the Swim Lake reference area are within published normal ranges.

		Lichen (n=6)	Willow Foliage (n=7)	Willow Root (n=7)	Birch (n=7)	Cited Normal Background Concentrations
Silver	Range	_	0.01 - 0.03	0.01 - 0.05	0.01 - 0.02	0.03 - 0.5 ^a
SILVEL	Mean	0.01	0.01	0.02	0.01	
Arsenic	Range		-	-	-	0.009 - 1.5ª
Aiseine	Mean	1	1	1	1	······································
Cadmium	Range	0.02 - 0.13	1.16 - 6.13	0.61 - 5.72	0.02 - 0.15	0.03 - 0.5 ^b
Caumum	Mean	0.04	2.73	2.04	0.10	
Chromium	Range	0.14 - 0.27	0.05 - 0.22	0.05 - 0.99	0.06 - 0.18	0.02 - 0.2 ^a
Chronnum	Mean	0.21	0.12	0.35	0.12	
Conner	Range	0.60 - 1.04	2.56 - 6.00	3.39 - 8.79	3.92 - 6.13	$2 - 30^{b}$
Copper	Mean	0.89	3.38	5.39	4.76	
Mercury	Range	0.01 - 0.02	-	0.01 - 0.04	0.01 - 0.03	0.01 - 0.4 ^b
wercury	Mean	0.01	0.01	0.02	0.02	
Nickel	Range	0.1 - 0.4	0.2 - 2.9	0.1 - 1.5	0.1 - 1.8	0.1 – 4 ^b
INICKEI	Mean	0.2	1.1	0.7	0.6	
Lead	Range	0.7 - 1.6	0.2 - 0.5	0.3 - 2.2	0.3 - 0.8	$0.1 - 10^{a}$
Lead	Mean	1.2	0.3	1.2	0.4	
Selenium	Range	- 1	1 - 2	-	1 - 2	0.002 - 2.9 ^a
	Mean	1	1	1	1	Carrier a
Zinc	Range	15 - 24	27 - 243	76 – 167	115 - 390	15 – 150 ^b
	Mean	19	154	122	242	

 Table 41. Reference Vegetation Elemental Concentrations (mg/kg)

^a Kabata-Pendias, 2001 ^b Jones *et al.*, unpublished

Data from surface soil sampling show elevated elemental concentrations on the tailings transects in comparison to background data Data from surface soil sampling show higher elemental concentrations from the Faro Mine Site transects in comparison to the Swim Lake reference data. For all analyzed elements, mean concentrations and observed maxima are higher for the Faro Mine Site transect area than for the reference sampling area. Greater concentrations of lead and zinc (as compared to the reference data) are more widespread, and extend further from the intermediate tailings impoundment than other measured elements. Elemental concentrations in sub-surface soil samples from the Faro Site transect area were generally more similar to the Swim Lake reference concentrations and, with the exceptions of lead and zinc, were within published normal ranges.

Statistical analysis of vegetation sampling results versus background data shows no significant differences between sites Results of vegetation sampling on the Faro Mine Site transects are presented in Table 42. Statistical analysis of these data versus the Swim Lake reference data for vascular plants (willow and birch) shows no significant differences between sites, with the exception of nickel in birch foliage. Comparison of transect elemental concentration means for vascular plants versus published normal levels (also means) indicates that the majority of elements in these samples were within normal ranges.



Locations where lead or zinc levels exceed published normal concentrations for willow and birch were generally confined to the transects to the north and east of the Faro Mine Site, and/or directly adjacent to the mine site, or along the downstream Rose Creek drainage transect (note that all transect data for shrub species exceed the appropriate Swim lake maxima). To demonstrate this finding, concentration ranges of zinc in willow foliage in the transect samples are shown in Figure 28.

Lichen are valuable bioindicators of contaminants

The majority of elements from lichen samples are one order of magnitude higher on the tailings transect samples than background levels

The spatial distribution of elevated metals concentrations in lichen samples on the tailings is similar to that in surface soil samples Lichen are susceptible to accumulation of airborne contaminants over time, and are valuable bioindicators of contamination (Conti and Cecchetti, 2001). Results presented in Table 42 for elemental concentrations in lichen samples on the Faro Mine Site transect area show higher concentrations for all elements, in comparison to the Swim Lake reference samples. The majority of elements are approximately one order of magnitude higher in samples from the transects than reference levels. Lead concentrations in the transects samples were approximately two orders of magnitude higher than lead in reference samples. Statistical comparison of Faro Mine Site transect elemental concentrations in lichen versus the Swim Lake reference data indicates that cadmium, chromium, nickel, lead, and zinc concentrations are significantly higher than reference levels.

As would be expected, the spatial distribution of metal concentrations in lichen samples from the Faro Mine Site transects in comparison to Swim Lake reference site concentrations is similar to that in surface soil samples. The highest concentrations were located either at sample locations adjacent to the mine site, north of the tailings impoundments (transects 4 and 5) and downstream on the Rose Creek drainage (transect 3). This is illustrated in Figure 29, which show ranges of lichen lead concentrations on the transects radiating from the Rose Creek Tailings Facility.

Table 42. T	Fransect Vegetation	Elemental Concentra	tions (mg/kg)
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		Lichen (n=24)	Willow Foliage (n=31)	Willow Root (n=29)	Birch (n=31)	Grass (n=13)	Cited Normal Background Concentrations
Cilver	Range	0.01 - 1.83	0.01 - 0.20	0.01 - 1.24	0.01 - 0.08	0.01 - 0.34	0.03 - 0.5 ^a
Silver	Mean	0.36	0.04	0.17	0.02	0.05	
· ·	Range	1 - 24	1 – 2	1 - 28	-	-	0.009 - 1.5 ^a
Arsenic	Mean	3	1	2	1	1	
0.1	Range	0.02 - 1.39	0.31 - 15.73	0.12 - 8.86	0.02 - 0.69	0.02 - 0.43	0.03 - 0.5 ^b
Cadmium	Mean	0.37	2.82	1.81	0.12	0.12	
Chromium	Range	0.29 - 4.60	0.05 - 3.69	0.19 - 20.48	0.06 - 3.56	0.01 - 2.11	0.02 - 0.2 ^a
	Mean	1.26	0.40	3.77	0.29	0.40	
	Range	1.51 - 35.40	2.07 - 8.54	2.07 - 101.17	3.19 - 6.86	1.99 - 4.30	$2 - 30^{b}$
Copper	Mean	8.37	4.56	14.45	5.05	2.61	
Mercury -	Range	0.01 - 0.51	0.01 - 0.03	0.01 - 0.51	0.01 - 0.05	0.01 - 0.04	0.01 - 0.4 ^b
	Mean	0.09	0.02	0.06	0.02	0.03	

		Lichen (n=24)	Willow Foliage (n=31)	Willow Root (n=29)	Birch (n=31)	Grass (n=13)	Cited Normal Background Concentrations
Mislari	Range	0.4 - 4.6	0.4 - 12.2	0.3 - 19.9	0.6 - 3.9	0.4 - 2.7	0.1 – 4 ^b
Nickel	Mean	1.2	2.9	3.9	1.8	1.4	
T J	Range	16.7 - 747.7	0.5 - 34.6	1.3 - 566.4	0.9 - 61.7	0.8 - 30.0	$0.1 - 10^{a}$
Lead	Mean	168.5	4.7	72.6	10.4	6.8	
C-1	Range	1 - 5	1-3	1 - 3	1-3	-	0.002 - 2.9 ^a
Selenium	Mean	1	1	1	1	1	·····
Zinc	Range	35 - 1043	52 - 828	58 - 802	107 - 656	11 - 143	15 – 150 ^b
	Mean	232	231	252	301	78	

^a Kabata-Pendias, 2001 ^b Jones *et al.*, unpublished

Bulk surface soil samples from the Vangorda Mine site indicate that elemental levels are comparable to background levels. Elevated concentrations for several elements are shown from the Faro Mine site

Results of lab analyses of vegetation samples show elevated elemental concentrations at potentially mine affected sampling points In addition to the transects, surface soils samples (0-10 cm) were collected at two sample points on the Vangorda Mine Site (sites Van 7 and 8), and three points on near the Faro Mine Site (Faro 4, 5 and 7; see Figure 27). Results from the Van 7 sample (overburden capping near the Vangorda/Grum treatment plant) and Van 8 (undisturbed ground near the Vangorda/Grum treatment plant site) indicate that elemental levels are generally comparable to Swim Lake reference levels. Results from the samples taken at the Faro Mine Site (adjacent to the older tailings impoundments [Faro 4 and 7] or the concentrate load-out facility [Faro 5]) show higher concentrations (than reference) for several elements. Arsenic, copper, mercury, lead, and zinc concentrations in these samples exceed Swim Lake reference data and published normal ranges.

Results of laboratory analyses of **foliar vegetation samples** taken from these mine site areas are presented in Table 43. These results show that silver, cadmium, chromium, copper, mercury, lead, nickel and zinc concentrations in vegetation at these points are generally greater than Swim Lake reference concentrations for at least one vegetation species, and are within the reference range for other vegetation species samples. Lead and zinc are consistently greater than reference and published normals, with maximum concentrations approximately two orders of magnitude higher than those at Swim Lake for lead and one order higher for zinc.

		Lichen (n=6)*	Willow Foliage (n=12)	Birch (n=12)	Grass/Legume (n=12)	Published Normal Background Concentrations
0.1	Range	0.01 - 0.61	0.01 - 0.22	0.01 - 0.12	0.01 - 0.09	0.03 - 0.5 ^a
Silver	Mean	0.14	0.08	0.03	0.03	
A	Range	1 - 6	1 - 11	1-6	1-3	0.009 - 1.5ª
Arsenic	Mean	2	2	1	1	
C- J	Range	0.02 - 0.53	1.13 - 12.66	0.02 - 0.73	0.02 - 0.32	0.03 - 0.5 ^b
Cadmium	Mean	0.20	1.97	0.23	f0.14	
ā .	Range	0.97 - 3.07	0.18 - 1.27	0.16 - 0.71	0.18 - 0.80	0.02 - 0.2 ^a
Chromium	Mean	1.92	0.52	0.31	0.41	
C	Range	2.08 - 16.57	2.65 - 10.94	3.92 - 10.01	2.08 - 13.12	2 - 30 ^b
Copper	Mean	5.82	6.23	5.76	5.12	
N. f	Range	0.01 - 0.04	0.01 - 0.07	0.01 - 0.13	0.01 - 0.06	0.01 - 0.4 ^b
Mercury	Mean	0.02	0.02	0.03	0.02	
Nickel	Range	0.6 - 2.6	0.7 - 7.5	0.9 - 3.6	0.6 - 4.2	0.1 – 4 ^b
INICKEI	Mean	1.5	3.4	2.0	1.9	
Teed	Range	12.2 - 411.3	1.1 - 115.0	1.0 - 126.5	0.4 - 85.5	$0.1 - 10^{a}$
Lead	Mean	96.5	25.8	28.2	19.2	
Selenium	Range	1 - 2		1 3	1 - 2	0.002 - 2.9 ^a
	Mean	1	1	1	1	
Zinc	Range	38 - 414	43 - 2350	126 - 1120	10 - 1040	15 – 150 ^b
	Mean	120	607	478	173	

Table 43. Mine-Area Vegetation Elemental Concentrations (mg/kg)

^aKabata-Pendias, 2001

^b Jones *et al.*, unpublished

The highest and most consistently elevated elemental concentrations occur at points Faro 1,2,4,5,6 and at Vangorda 2 and 3 Soils and vegetation data from individual sample points within the footprint of the mine (additional mine-area sample sites) show increased concentrations of metals (Faro 1, 2, 4, 5, 6 and 7 and Van 2 and 3). In some cases, sites had no living moss or lichen layer, and there was visual evidence of phytotoxicity (chlorosis).

It is worth noting that analytical data from the vegetation samples collected on revegetated till-capped sites (Van 6 and 7) showed only marginal or no elevation in elemental concentrations in comparison to reference data and published normals. This finding is supported by soils data showing concentrations similar to reference on one of these sites.



2.7.4 WILDLIFE

2.7.4.1 Fannin Sheep

Population Status and Characteristics

The stone sheep found within the regional study area are distinctly coloured, and have been termed Fannin sheep Stone sheep (*Ovis dalli stonei*) are known to occur within the RSA. The stone sheep that occur in this area are a colour morph distinct from other stone sheep. They have been termed Fannin sheep and characteristically paler than stone sheep elsewhere within their range. Dark markings on Fannin sheep are normally confined to the saddle, tail and lower legs. Fannin sheep have not been classified as a subspecies separate from other stone sheep.

Stone sheep are valued as a food source by resident hunters and members of the Ross River Dene First Nation. Stone sheep, in particular the Fannin colour morph are highly valued by resident and non-resident hunters as trophy animals and are of significant economic value to outfitters. Stone sheep, especially Fannins, have high non-consumptive value for wildlife viewing and generate significant levels of tourism in the Yukon in general and in Faro specifically.

Historical Data (pre-1998)

Table 44 summarizes the population surveys conducted within the regional study area between 1980 and 1998. The number of sheep counted within each area varies greatly depending on a number of factors including: survey date; technique and weather conditions. Since many of the surveys summarized above were not conducted for the sole purpose of population inventory, few are consistent in technique and date of survey. Monthly variations in the number of sheep observed in any one area are influenced by the timing of migration. Sheep migrate between their summer and winter ranges between mid-September and mid-October; nursery herds migrating earlier than rams (Schweinsburg 1990a). Therefore, sheep counts during September and October on Mount Mye and Sheep Mountain are low. This would likely also be the case between May and June (since spring migration occurs between mid-May and late June).

It is believed that the sheep population on Sheep Mountain has remained relatively stable between 1980 and 1990 (Schweinsburg 1990a) at between 60 and 80 individuals (YTG 1987). Variations in the number of sheep counted is thought be more a factor of survey conditions than changes in population status (YTG 1987). Observed recruitment levels (indicated by proportion of lambs/yearling in the population) are considered to be indicative of a growing population (Schweinsburg 1990a). There are no data available for the period between 1990 and 1998.

Population surveys indicate the sheep population on Sheep Mountain has remained relatively stable between 1980 and 1990

Season/ Month	Location	Ewes	Lambs/ Yearlings	Rams	Total	Source
Spring	Mount Mye	35		15	50	Studds, 1975
August	Mount Mye		22	-	22	MEC Ltd., 1976
August	Mount Mye	43	17	2	61	McLeod, 1981
July	Mount Mye	35	18	24	77	Hoeffs, 1988
September	Mount Mye				13	Horejsi, 1988
August	Mount Mye	53	15	19	87	Hoeffs, 1989
Winter	Sheep Mountain				60 - 80	YTG, 1980
Winter	Sheep Mountain	35	6	14	55	YTG, 1987
September	Sheep Mountain				37	Horejsi, 1988
April	Sheep Mountain	36	22	13	71	Lortie, 1988
April	Sheep Mountain	28	21	23	72	Schweinsburg, 1989
October	Sheep Mountain	34	14	5	53	Hoeffs, 1989
April	Sheep Mountain	40	18	24	76	Schweinsburg, 1990a
Fall	Sheep Mountain	37	18	11	66	Schweinsburg, 1990b
July	Rose Mountain	19	_	9	28	McLeod, 1981
September	Rose Mountain				14	Horejsi, 1988

Table 44.	Summary of Sheep Counts within the Regional Study Area between 1980 and 1988
	(adapted from Schweinsburg 1990a).

The following summary comments are noted from this data:

- There is no evidence to suggest a historical population decline or a significant change in the population characteristics of stone sheep within the regional study area; the population appears to have remained relatively stable prior to 1998 (Schweinsburg 1990a). The establishment of no hunting areas within much of the known range of these animals within the regional study area (Game Management Subzones (GMS) 4-46, 4-47 and 4-51, noted on Figure 4) undoubtedly contributed to the stability of this population;
- Sheep remain vulnerable to poachers within the regional study area, especially on the winter range where they are seasonally concentrated and in exposed terrain; and
- There is the potential for uptake of metals by stone sheep, however risks are unknown.

Existing (1998-2002) Data

Data from 1998-2002 suggests a stable sheep population Table 45 summarizes the population surveys conducted within the regional study area between 1998 and 2002. The observed ratio of lambs to nursery sheep in GMS 4-41 (33:100) and on Rose Mountain (38:100) indicates a stable population (J. Carey *et al.* unpub. report). The ratio of rams to nursery sheep in 4-41 (60:100) is higher than would be expected for a hunted population (J. Carey *et al.* unpub. report). Rose Mountain is known as a nursery area; the absence of rams in this survey is therefore not unexpected since rams move to Mount Mye during summer (J. Carey *et al.* unpub. report). Numbers of stone sheep observed on Rose Mountain between 1981 and 2002 (Table 45) are considered to be stable (J.



Carey *et al.* unpub. report). The observed increase in the number of nursery sheep on Rose Mountain between 1981 and 2002, is believed to be due to animal movements at the time of the survey and not only the result of increased recruitment (J. Carey *et al.* unpub. report).

 Table 45.
 Summary of Sheep Counts within the Regional Study Area between 1998 and 2002 (Carey et al. unpublished data).

Season/ Month	Location	Nursery Sheep (ewes & yearlings)	Lambs	Rams	Total Sheep	Source
July	Mount Mye	28	7	37	72	Hoeffs 1999
June	GMS 4-41	94	31	58	183	Carey <i>et al.</i> unpub. data from 2002
June	Rose Mountain	45	17	11	73	Carey et al. unpub. data from 2002

Wintering areas have been found on the Pelly River Bluff and other areas of winter range are suspected to exist It is not certain that sheep counts conducted on Sheep Mountain are indicative of the entire population of sheep that inhabit the regional study area. Although sheep that winter on Sheep Mountain can be found on either Sheep Mountain, Mt. Mye, Rose Mountain or on the mine site during summer, there appears to be a group of sheep independent of the Mount Mye/Sheep Mountain group that summer in areas around Blind and Swim Lakes and winter on windswept slopes near to their summer range. Wintering areas have also been found on the Pelly River Bluff (2.5km east of Faro) and it is suspected that areas northeast of Faro on Vangorda Creek may provide additional winter range (Schweinsburg 1990a). Given this variation in range use it is difficult to be certain that sheep counts conducted over the years on Mount Mye, Sheep Mountain or Rose Mountain are representative of one sheep population. Although surveys conducted on Sheep Mountain during the winter may act as an indicator of population status of the larger population, sheep movement to other winter ranges could affect this sampling technique. There are currently no data available on the distribution and extent of the population of stone sheep within the regional study area.

Habitat/Range Use

Three winter habitat units were identified at Sheep Mountain The southern slopes of Sheep Mountain have been identified as an area of sheep winter range (MEC Ltd. 1976; YTG 1980; McLeod 1981; YTG 1987; Schweinsburg 1990a). Schweinsburg (1990a) determined through telemetry and field observations that nursery sheep (ewes, lambs and yearlings) spent early winter on the upper slopes of Sheep Mountain while rams spent this time on the western edge of Sheep Mountain. Later these sheep are found on the lower slopes of Sheep Mountain to feed on sage (*Artemesia frigida*) and later on new herbaceous growth and aspen (*Populus tremuloides*) leaves (Schweinsburg 1990a). Additional wintering areas include: the windswept slopes near Blind and Swim Lakes (Schweinsburg 1990a), Pelly River Bluff, 2.5km east of Faro (Schweinsburg 1990a) and potentially areas north-east of Faro on Vangorda Creek (McLeod 1981; Schweinsburg 1990a).



Habitat mapping of Sheep Mountain classified three habitat units significant to sheep during winter (Staniforth 1998):

- Sage-Graminoid community occurs on the open windswept south-facing slopes and is considered to be the most important winter habitat as it would be the relatively snow-free during winter;
- Rose/Forb community is found mainly at the edges of south-facing aspen groves, in low-lying gullies and high snow accumulation areas; and
- Grass-Forb community occurs at the edge of the aspen groves but on the more northerly aspects.

Rocky outcrops occur in association with all three of the important winter range communities outlined above. Rocky outcrops increase the habitat quality of these areas by providing escape terrain. The three vegetation communities (including rocky outcrops) were therefore grouped into one habitat type: Rock/Grass/Forb. This unit covered a total of 4.9 km² or 11% of the Sheep Mountain Study Area (Staniforth 1998).

The habitat unit used during lambing is likely similar to that used during early winter Initial studies indicated that lambing areas on Sheep Mountain were found downslope of the early winter range (Studds and Hoeffs 1975). Schweinsburg (1990a) has since determined that ewes move from the lower slopes of Sheep Mountain in late winter to lamb at higher elevations. There is also some indication that ewes may lamb on Mount Mye (Schweinsburg 1989). Lambing areas were not identified during the habitat mapping study conducted on Sheep Mountain (Staniforth 1998). Through interpretation of habitat descriptions made by Schweinsburg (1990a), the habitat unit used during lambing is likely similar to that used during early winter, i.e., Rock/Grass/Forb.

Sheep generally dispersed more widely over their summer range than the winter range. Therefore a larger area has been identified as summer range and includes Mount Mye (MEC Ltd. 1976; McLeod 1981; Hoeffs 1988; Hoeffs 1989; Schweinsburg 1990a); Rose Mountain (McLeod 1981); Blind Creek and Swim Lakes area (Schweinsburg 1990a); Sheep Mountain and the Anvil Mine Complex (Schweinsburg 1989, 1990a; 1990b). Both Mount Mye and Rose Mountain are composed of upland land-types within the alpine, subalpine and boreal zones (AEM 2002). Sheep Mountain is composed of upland and lowland-riparian land types within the boreal zone (AEM 2002). The area around Blind and Swim Lakes is comprised of upland land types in the boreal zone (AEM 2002). The area around the Anvil Mine Complex is comprised of upland land types in the boreal zone (AEM 2002). The majority of Sheep Mountain, the western slopes above Blind Creek and the Vangorda – Grum deposits were burned during a fire in 1969 (Fire History Database).

Spring migration occurs between mid-May and the end of June (McLeod 1981; Schweinsburg 1990a). Fall migration occurs between mid-September and mid-October. Nursery herds migrate earlier in mid-September and rams later in early October (Schweinsburg 1990b). A number of migration routes have been identified and are indicated on Figure 30:

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A large area has been identified as summer range



Various sheep migration routes have been identified within the regional study area

- Migration route E (after McLeod 1981) was identified as the main migration route between Mount Mye and Sheep Mountain during spring and fall (MEC Ltd. 1976; McLeod 1981; Horejsi 1988; Schweinsburg 1990b). From Sheep Mountain, this route goes to the confluence of Shrimp Lake and Vangorda Creek, crosses the Haul Road 1 km west of Vangorda Creek and then continues to the base of Mount Mye. This route therefore passes between the Vangorda and Grum deposits.
- Migration route F (after McLeod 1981) was also identified as a significant migration route between Sheep Mountain and Mt. Mye during spring and fall (MEC Ltd. 1976; McLeod 1981; Schweinsburg 1990b). From Sheep Mountain, this route goes to the confluence of Shrimp Lake and Vangorda Creek, it then follows a small road, crosses the airstrip to the site of the proposed Vangorda Pit and then continues to Mt. Mye via the west side of Vangorda Creek.
- Migration route D (after McLeod 1981) was also identified as a significant migration route between Sheep Mountain and Mt. Mye during spring and fall (McLeod 1981; Horejsi 1988; Schweinsburg 1990b). From Mount Mye, this route goes south from Mount Mye and crosses the haul road 1 km east of the Grum Camp. The route then follows down to the confluence of Shrimp Lake and Vangorda Creek on to Sheep Mountain.
- McLeod (1981) also identified one addition migration route (route A) which follows west from Sheep Mountain along the ridge to Rose Mountain.

Rams have been observed rutting on Sheep Mountain (Schweinsburg 1990a) presumably during fall/early winter.

2.7.4.2 Moose

Population Status and Characteristics

Moose (*Alces alces*) occur throughout the regional study area. The subalpine plateau of Game Management Subzone ("GMS") 4-45 is recognized to have one of the highest seasonal densities of moose in the Yukon (Ward 1999) and is acknowledged as a significant rutting and post-rutting area of territorial significance (Ward 1997). Moose are highly valued as a food source by members of the Ross River Dene First Nation, Faro residents and non-resident hunters. Moose have economic value for outfitters and are highly valued as a food source in the food source for grizzly bears in early spring when other food sources are limited.

Historical (pre-1998) Data

A summary of the number of moose hunted within one outfitter's territory within the Faro region between 1963 and 1974 shows that the number of guided moose hunts increased by an order of four following the establishment of the Town of Faro and the Mine development (MEC Ltd. 1976). Prior to 1969, 3.8 moose were successfully hunted by non-resident hunters per year, after 1969, 15.5 moose were taken on average per year.

Deloitte

& Touche



In 1998, there was no evidence to suggest that the moose population had declined; however, the bull:cow ratio within area GMS 4-45 reached the lowest acceptable level for moose Survey results indicate that moose density within GMS 4-45 has not changed significantly between 1997 and 1998 (Table 46). However, the low bull to cow ratios observed in 1997 (30:100) and 1998 (45:100) are cause for concern (Ward 1997; Ward 1998). The bull:cow ratio has reached the lowest acceptable level for moose; where this sex ratio has been observed elsewhere in the territory, e.g., Haines Junction and south of Whitehorse, it has been followed by a population decline. Below this level there is a possibility that there are insufficient numbers of bulls to breed every female. True harvest levels (i.e., including some unreported mortalities) have reached the sustainable harvest limit for this population, i.e., 20-25 moose taken in GMS 4-45 each year (Ward 1997). The ratio of calves to cows is not high in 1997 (35:100) or 1998 (26:100) but is considered sufficient to maintain a stable population (Ward 1997; R. Ward, pers. comm.).

Deloitte

& Touche

Table 46. Summary of Moose Surveys Conducted within GMS 4-45 near Faro and Anvil Mine (1997 – 1998)

	Within GMS 4-45		
	1997	1998	
Survey Timing	Dec $8^{th} - 13^{th}$	Nov 23 rd – 28 th	
Area Surveyed (km ²)	967	1034	
Moose Density/1000km ²	586	483	
Bull: Cow	30:100	45:100	
Calf: Cow	35:100	26:100	

The following comments are of note regarding moose data during the pre-1998 period:

- There is currently no evidence to suggest that the population of moose within the regional study area has declined. However, the bull:cow ratio observed in GMS 4-45 has reached the lowest acceptable level for moose (Ward 1999). Where this sex ratio has been observed elsewhere in the territory, e.g., Haines Junction and south of Whitehorse, it has been followed by a population decline. Below this level there is a possibility that there are insufficient numbers of bulls to breed every female.
- True harvest levels (i.e., including some unreported mortalities) have already reached the sustainable harvest limit for this population, i.e., 20-25 moose taken in GMS 4-45 each year (Ward 1997) and these areas have remained open to the hunting of bulls.
- Potential for habitat displacement and extent are unknown.
- There is the potential for uptake of metals by moose. However, the risk is unknown. Available data suggest that concentrations of metals in moose tissues within the regional study area are not noticeably higher than elsewhere in Yukon (P. Roach, pers. comm., 7th October 2002). However it was recognized that sample size was low, n = 4 (P. Roach, pers. comm., 7th October 2002).



Existing (1998-2002) Data

Mature bulls likely travel from outside the study area to congregate during the rut

The density of moose observed in 1999 within GMS4-45 (Table 47) is roughly seven times higher than the Yukon average and indicates the importance of this area for post-rutting moose (Ward 1999). This seasonally high moose density indicates that mature bulls likely travel from outside of this area to congregate during the rut. There is evidence from telemetry studies conducted elsewhere (Liard River) that moose may disperse during the summer up to 80 km from their winter concentrations (J. Adamczewski, pers. comm., September 2002).

Table 47. Summary of Moose Surveys Conducted within GMS 4-45 near Faro and Anvil Mine (1999)

	Within GMS 4-45
	1999
Survey Timing	Dec $13^{th} - 19^{th}$
Area Surveyed (km ²)	218
Moose Density/1000km ²	1358
Bull: Cow	30:100
Calf: Cow	18:100

It is likely that harvest levels have been increased due to increased hunter access associated with mine developments The low bull:cow ratio observed in 1999 (30:100) is confounded by survey timing and conditions and cannot be compared to previous years. However, the low bull to cow ratios observed in 1997 (30:100) and 1998 (45:100) remain a cause for concern (R. Ward, pers. comm). There has been a voluntary harvest restriction in place in GMS 4-45 since 1999 but the effectiveness of this measure is unknown and suspected to be negligible (R. Ward, pers. comm.). It is believed that increased hunter access associated with mine developments, has increased harvest levels and has consequently impacted the moose population in the Faro area (Ward 1999).

The ratio of calves to cows is low in 1999 but may have been affected by survey technique and conditions. The proportion of calves within moose populations fluctuates naturally from year to year such that the ratio must be compared over a longer time period (R. Ward, pers. comm.).

Habitat/Range Use

The floodplain of the Pelly River is suspected to provide significant winter and summer habitat for moose (MEC Ltd. 1976). Areas within the 1969 burn and areas of alluvial plain shrub are suspected to be significant summer habitat for moose (MEC Ltd. 1976). In 1999 YTG delineated an area of high moose abundance during the rutting and post-rutting season within GMS 4-45 (Ward 1999). Within an area of 218 km² moose density was observed to be roughly seven times higher than the Yukon average. The area corresponds to the subalpine plateau of GMS 4-45 (Ward 1999). There is no data available on the current calving, summer and winter habitat use and movement patterns of moose within the regional study area.



2.7.4.3 Woodland Caribou

The Tay River herd of caribou is found within the regional study area Woodland caribou (*Rangifer tarandus caribou*) herds are defined as a group of caribou that share a common winter range that is geographically distinct from neighbouring herds (Edmonds 1988; Farnell *et al.* 1996). Caribou within the immediate vicinity of Anvil Range Mine are considered to be members of the Tay River woodland caribou herd (Kuzyk and Farnell 1997). Woodland caribou from the Redstone Herd appear to overlap at the northeastern extent of the Tay River Herd annual range, i.e., near Mac Pass (Kuzyk and Farnell 1997). This area of overlap is outside the regional study area and does not overlap with the winter range of the Tay River Herd. For the purposes of this project, data will be presented only on the Tay River Herd.

Woodland caribou are listed as a special species of concern and are found mostly along the Tay River and the South Macmillan River within the regional study area Woodland caribou within the northern mountain ecotype found in the vicinity of the Anvil Range Mine are listed as a species of special concern by the Committee on the Status of Endangered Species in Canada (COSEWIC, May 2002). This designation is reserved for a population that is particularly sensitive to human activities or natural events but is currently not endangered or threatened (COSEWIC). Woodland caribou are valued as a food source by Yukon residents, non-resident hunters and members of the Ross River Dene First Nation and have economic value for outfitters. Woodland caribou calves are a valued food source for grizzly bears in early spring when other food sources are limited.

Historical (pre-1998) Data

A population survey of the Tay River Herd was conducted between 23rd and 27th March 1991 (Table 48). A total of 3,758 caribou (± 571) were estimated to occur within the 1,266 km² survey area (Kuzyk and Farnell 1997). Caribou were found mostly along the Tay River and the South Macmillan River.

 Table 48.
 Summary of Caribou Survey Data and Population Estimate for the Tay River Herd (after Kuzyk and Farnell 1997)

Strata	Units Surveyed	Area Surveyed (km ²)	Total Caribou	Expanded Population Estimate*	Corrected Population Estimate**
Primary	31	845	3,091	3,091	
Secondary	15	421	53	185	
Total	46	1,266	3,144	3,276	3,758

* Population extrapolated from density estimates of caribou within surveyed secondary units to un-surveyed secondary units.

** Calculated using a sightability correction factor of 1.14.

The fall composition studies of the Tay River Herd indicate that the herd is stable; there were approximately 30 calves for every 100 cows and >35 bulls for every 100 cows (Kuzyk and Farnell 1997). The caribou harvest between 1990 and 1994 is considered sustainable at approximately 1% of the population of the Tay River Herd (Kuzyk and Farnell 1997). Between 35 and 43 caribou are harvested by licensed hunters during fall (residents and non-residents).



The population of woodland caribou appears relatively stable from 1991-1998

No data on the current population status of the Tay River herd is available

Range use varies according to season (i.e. calving, postcalving, or rutting) The following comments can be made based on data from this period:

- There is no evidence to suggest a historical population decline or a significant change in population characteristics of woodland caribou within the regional study area; the population appears to have remained relatively stable prior to 1998 (Kuzyk and Farnell 1997).
- Potential for habitat displacement, extent unknown.
- There is potential for uptake of metals by woodland caribou. However the risk is unknown.

Existing (1998-2002) Data

There are no data available on the current population status and characteristics of the Tay River Herd. The population estimate obtained during the study conducted by Kuzyk and Farnell (1997) can be used as a benchmark for management purposes (Kuzyk and Farnell 1997). It has been suggested that a repeat census be conducted to monitor this population and determine the current population abundance and composition of the Tay River Herd (Kuzyk and Farnell 1997; R. Farnell, pers. comm. 9th September 2002).

Habitat/Range Use

The calving and post-calving areas of the Tay River Herd have been documented south of the upper Stewart River and north of the Pelly River (Kuzyk and Farnell 1997). Calving and post-calving areas include areas in the vicinity of the Anvil Range Mine in alpine areas within GMSs 4-41 and 4-43, Figure 4 (Kuzyk and Farnell 1997). Caribou from the Tay River Herd are documented to be widely distributed during the rut especially to the north and east of the Anvil Range Mine. Rutting areas include areas in the vicinity of the Anvil Range Mine within GMSs 4-41, 4-43 and 4-45. In early winter, caribou descend from alpine areas into the lowland areas of the forested river drainages north of Faro. At this time of year, the herd is in close proximity to the Anvil Range Mine and has been observed in GMSs 4-41, 4-45, 4-46 and 4-47. In late winter, caribou are confined to the valley bottoms of the forested river drainages north of Faro. At this time of year, the herd is in closest proximity to the Anvil Range Mine and has been observed in GMSs 4-41, 4-45, 4-46 and 4-47. In 1991 caribou were observed within 10 km of the Town of Faro during late winter (Kuzyk and Farnell 1997).

2.7.4.4 Grizzly Bear

Population Status and Characteristics

Grizzly bears are listed as a special species of concern Grizzly bears occur throughout the regional study area. Grizzly bears (*Ursus arctos*) are listed as a species of special concern by the Committee on the Status of Endangered Species in Canada (COSEWIC, May 2002). This designation is reserved for a population that is particularly sensitive to human activities or natural events but is currently not endangered or threatened (COSEWIC).



Grizzly bears are vulnerable to the impacts of human activities for many reasons, including their specialist habitat requirements, large home range sizes, displacement from areas of human use; vulnerability to mortality due to food conditioning and low fecundity rates. For the reasons described above and the broad ecological amplitude grizzly bears possess as omnivorous animals, grizzly bears are considered indicators of ecosystem health. Grizzly bears are valued by resident and non-resident hunters as trophy animals and in some cases for food and have economic value for outfitters. Grizzly bears have high non-consumptive value and generate significant levels of tourism in the Yukon.

Historical (pre-1998)

There have been no telemetry studies or population estimates conducted on the grizzly bears within the regional study area and therefore no empirical data are available to assess population status and characteristics. There is indication that the grizzly bear population within the regional study area has experienced some stress (MEC Ltd. 1976; Yukon Biological Submission Forms, YTG). The level of grizzly bear harvest in the area increased markedly following the establishment of the Town of Faro and the Anvil Mine (MEC Ltd. 1976). A summary of the number of grizzly bears hunted within one outfitter's territory within the Faro region between 1963 and 1974 shows that the number of guided grizzly bear hunts increased by an order of three following the establishment of the town of Faro and the Mine development. Prior to 1969, 2.3 grizzly bears were successfully hunted by non-resident hunters per year, after 1969, 7.2 grizzly bears were taken on average per year. A total of 76 grizzly bear mortalities (47 males and 29 females) have been reported within the regional study area between 1980 and 1997 (Yukon Biological Submission Forms, YTG). This translates to an annual harvest of 4.22 grizzly bears / year or 0.95 grizzly bears / year / 1000 km². Highest mortality rates were observed in GMS 4-44 (3.38 grizzly bears / year / 1000 km²) and GMS 4-51 (4.21 grizzly bears / year / 1000 km²). GMS 4-44 is accessible from trails originating from the Anvil Range Mine and from the town of Faro. GMS 4-51 contains the town of Faro, portions of the Anvil Range Mine and many access roads and trails. The observed mortality rates are considered to be an underestimate of true mortality (K. Meister, pers. comm., September 2002). In the absence of empirical data on grizzly bear population status and characteristics and/or on home range size and the extent of home range overlap, the sustainability of the observed mortality rates cannot be empirically determined.

The following summary comments can be noted from data during this time period:

- There are no empirical data available to assess population status and characteristics of grizzly bears within the regional study area.
- There is evidence from the literature and records of mortality to suggest that grizzly bears within the regional study area may have experienced a decline. The supporting literature defines a strong correlation between the persistence of grizzly bears, the presence of roads/trails and the behaviour of humans on these roads/trails, i.e., hunting pressure. There is an extensive network of roads and trails leading from the mine complex into previously inaccessible

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There is indication that the grizzly bear population has experienced some stress from increased hunting but no empirical data exists

Comments noted from

data during the

historical period



or less accessible areas within the study area and there is indication that hunting pressure within these areas has been high. There have also been an unknown number of grizzly bears killed in control actions within the study area.

- There is the potential that mine development has removed valuable feeding habitat and/or displaced grizzly bears from valuable feeding habitat. The extent and significance of this remains unknown in the absence of a comprehensive ecosystem map of the area.
- There is the potential for uptake of metals by grizzly bears. Grizzly bears are vulnerable to the bioaccumulation of contaminants in their tissues due to their position in the aquatic food chain, i.e., salmon eaters and the terrestrial food chain i.e., predators. Grizzly bears are also vulnerable to contamination due to their hyperphagic feeding habits, e.g., consuming up to 40 kg (fresh weight) of berries in a day (Welch *et al.* 1997).

2.7.4.5 Existing (1998-2002) Data

There is indication that the grizzly bear population has experienced stress historically and that hunter success has since declined There have been no telemetry studies or population estimates conducted on the grizzly bears in the area of Faro and the Anvil Range Mine and therefore there are no empirical data available to assess population status and characteristics. There is indication that the grizzly bear population within the regional study area has experienced stress historically (MEC Ltd. 1976; Yukon Biological Submission Forms, YTG) and that hunter success has since declined. A total of 12 grizzly bear mortalities (9 males and 3 females) have been reported within the regional study area between 1998 and 2002 (Yukon Biological Submission Forms, YTG). This translates to an annual harvest of 3.00 grizzly bears / year or 0.67 grizzly bears / year / 1000 km². Hunter success has most noticeably declined within those GMSs where grizzly bears experienced highest mortality rates historically; there have been no grizzly bears harvested or controlled within GMS 4-44 or 4-51 since 1998 (Yukon Biological Submission Forms, YTG). In the absence of empirical data on grizzly bear population status and characteristics and/or on home range size and the extent of home range overlap, the sustainability of the observed mortality rates cannot be empirically determined.



Habitat Use

Habitat use patterns of grizzly bears in the area were not determined in previous studies. However, seasonal food habits and habitat use patterns can be inferred from the results of studies of grizzly bears in ecologically similar areas The habitat use patterns of grizzly bears in the Anvil Range Mine area were not determined during previous studies. However, grizzly bear seasonal food habits and habitat use patterns can be inferred from the results of studies of grizzly bears in ecologically similar areas (Pearson 1976; McCann in prep). These data were interpreted to provide a summary of likely food habits and habitat use patterns for the grizzly bears within the regional study area.

During spring prior to vegetation green-up, grizzly bears in the regional study area are likely to feed on the roots of *Hedysarum spp.*, in disturbed, snow free areas at lower elevations; winter weakened ungulates, particularly moose, in lowland riparian areas such as the Pelly River floodplain and overwintered berries, such as *Artcostaphylus sp.* and *Empetrum sp.* on south facing, windswept subalpine slopes. Later in the spring when new vegetation growth has appeared, grizzly bears will feed on grasses, sedges, horsetails and forbs as well as on willow catkins and ungulate calves (particularly moose and potentially caribou). Late spring habitats will include valley bottom riparian areas and seepage slopes.

During summer grizzly bears will likely feed on the berries of *Shepherdia* canadensis and Vaccinium spp.. These berries are particularly abundant in areas burned by wildfire. The wildfire that burned a significant portion of the area around the Anvil Mine in 1969 may be on the cusp of becoming less valuable for bears. The abundance of berries in areas burned by wildfires tends to be highest 15 - 35 years post fire, depending upon growing conditions. Berry abundance will vary with habitat type and site characteristics within the burn. Berry abundance can also be high under relatively open, floodplain forests. Some grizzly bears (especially females) may continue feeding on herbaceous vegetation at higher elevations in the subalpine during summer. Some bears will also hunt for rodents, particularly ground squirrels (*Spermophilus sp.*) in subalpine meadows.

Grizzly bears will continue to feed on the berries of *Shepherdia canadensis* and *Vaccinium spp.* in burns and some in floodplain forests during fall. *Empetrum sp.* and *Artcostaphylus sp.* will also become more significant during this season and bears will find these berries on dry, south facing, subalpine upland slopes. Some bears may also feed on the roots *Hedysarum spp.* wherever this plant occurs. The distribution of *Hedysarum spp.* is fairly ubiquitous and access to roots is less limited by snow and ground conditions at this time of year. Grizzly bears that occupy home ranges that contain Blind Creek and Tay River will likely feed on spawning chinook salmon (*Oncorhynchus tshawytscha*) on the floodplains of these valley bottoms. Some bears may stay active late in the fall and feed on rut weakened ungulates, particularly moose, where these animals are found, i.e., the subalpine areas of GMS 4-45.

Grizzly bears will spend winter hibernating in dens at higher elevation in the subalpine and alpine areas. Dens may be found on steep slopes of any aspect (although there is some evidence to suggest that the excavation of dens at



northerly latitudes on north facing slopes may be impeded by ground conditions, Pearson 1975). Dens tend to be excavated in soil and may or may not be associated with the root systems of trees or shrubs. On rare occasion grizzly bears may hibernate in caves.

2.7.4.6 Black Bear

Population Status and Characteristics

Black bears occur throughout the study area and are vulnerable to harvesting Black bears (*Ursus americanus*) occur throughout the regional study area. Black bears are valued by resident and non-resident hunters as trophy animals and in some cases for food and have economic value for outfitters. Black bears have high non-consumptive value and generate significant levels of tourism in the Yukon. Black bears are vulnerable to illegal harvesting for gall bladders, as part of the international and domestic trade in bear parts.

Historical (pre-1998) Data

There is indication that the black bear population has experienced some stress from increased hunting but no empirical data exists

There have been no telemetry studies or population estimates conducted on black bears within the regional study area and therefore no empirical data available to assess population status and characteristics. There is indication that the black bear population within the regional study area has experienced some stress (MEC Ltd. 1976; Yukon Biological Submission Forms, YTG). The level of black bear harvest in the area increased markedly following the establishment of the town of Faro and the Anvil Mine (MEC Ltd. 1976). A summary of the number of black bears hunted within one outfitter's territory within the Faro region between 1963 and 1974 shows that the number of guided black bear hunts increased by an order of six following the establishment of the town of Faro and the Mine development.

Prior to 1969, 0.3 black bears were successfully hunted by non-resident hunters per year, after 1969, 1.8 black bears were taken on average per year. A total of 93 black bear mortalities (74 males and 19 females) have been reported within the regional study area between 1980 and 1997 (Yukon Biological Submission Forms, YTG). This translates to an annual harvest of 5.17 black bears / year or 1.16 black bears / year / 1000 km². Highest mortality rates were observed in GMS 4-47 (4.23 black bears / year / 1000 km²) and GMS 4-43 (3.26 black bears / year / 1000 km²). GMS 4-47 contains an extensive network of roads and trails and is in close proximity to the town of Faro and the Robert Campbell Highway. Mostly resident hunters hunt this area (Yukon Biological Submission Forms, YTG). GMS 4-43 does not contain surveyed roads or trails but is immediately accessible from the Pelly River. Mostly non-resident hunters hunt this area (Yukon Biological Submission Forms, YTG). The observed mortality rates are considered to be an underestimate of true mortality (K. Meister, pers. comm., September 2002). In the absence of empirical data on black bear population status and characteristics and/or on home range size and the extent of home range overlap, the sustainability of the observed mortality rates cannot be empirically determined.

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Comments on the historical data The following summary comments can be made from data based on this time period:

- There is no empirical data available to assess population status and characteristics of black bears within the regional study area.
- There is the potential for overharvesting of black bears within the regional study area. Mortality associated with hunting and control actions has been high within the regional study area.
- There is the potential that mine development has removed valuable feeding habitat and/or displaced black bears from valuable feeding habitat. The extent and significance of this remains unknown in the absence of a comprehensive ecosystem map of the area.
- There is the potential for uptake of metals by black bears. Black bears are vulnerable to the bioaccumulation of contaminants in their tissues due to their position in the aquatic food chain, i.e., salmon eaters and the terrestrial food chain i.e., predators. Black bears are also vulnerable to contamination due to their hyperphagic feeding habits.

Existing (1998-2002) Data

There have been no telemetry studies or population estimates conducted on the black bears in the area of Faro and the Anvil Range Mine and therefore there are no empirical data available to assess population status and characteristics. There is indication that the black bear population within the regional study area has experienced some stress historically (MEC Ltd. 1976; Yukon Biological Submission Forms, YTG). Current mortality levels within the study area remain high; a total of 23 black bear mortalities (17 males and 6 females) have been reported within the regional study area between 1998 and 2002 (Yukon Biological Submission Forms, YTG). This translates to an annual harvest of 5.75 black bears / year or 1.29 black bears / year / 1000km². Mortality rates remain highest in GMS 4-47 (4.16 black bears / year / 1000km²). Harvest rates have declined in GMS 4-43 from 3.26 to 1.47 black bears / year / 1000km². In the absence of empirical data on black bear population status and characteristics and/or on home range size and the extent of home range overlap, the sustainability of the observed mortality rates cannot be empirically determined.

Habitat Use

The habitat use patterns of black bears in the Anvil Range Mine area were not determined during previous studies. There are little data available on black bear seasonal food habits and habitat use patterns areas ecologically similar to the regional study area. Food habits and habitat use patterns were therefore inferred from general food habits and habitat use patterns of black bears based on the occurrence of potential bear foods and habitat within the regional study area.

During the spring, black bears will likely feed on grasses, sedges, horsetails, forbs, the catkins of willow (*Salix spp.*) and balsam poplar (*Populus balsamifera*)

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There is no empirical data available to assess the population status and characteristics but current mortality rates within the study area remain high

Since habitat use patterns of black bears were not determined in previous studies, food habits and habitat use patterns are based on the occurrence of potential bear foods and habitats within the regional study area



in valley bottom riparian areas and on seepage slopes. During the summer, black bears will likely feed on a diversity of berry species including *Vaccinium uliginosum, Vaccinium vitis-idaea, Shepherdia canadensis* and potentially *Rosa acicularis* typically in lower elevation forested areas. Black bears will likely continue to feed on these berry species into the fall but may also feed on *Empetrum nigrum, Arctostaphylos spp.*, and *Vaccinium caespitosum* at higher elevation forested areas. Black bears may also feed on grasses and sedges at this time of the year. Black bears that occupy home ranges that contain Blind Creek and Tay River may also feed on spawning chinook salmon (*Oncorhynchus tshawytscha*) on the floodplains of these valleys. Black bears will spend winter hibernating in dens at mid to high elevations in subalpine forests. Dens tend to be excavated under the root systems of trees.

2.7.4.7 Raptors

Bald eagles are known to occur and peregrine falcons may occur within the study area. Peregrine Falcons are listed as a threatened species in the Yukon There have been no empirical studies conducted on raptors within the regional study area (D.Mossop, pers. comm., 2nd October 2002). Bald eagle (*Haliaeetus leucocephalus*) is known to occur and peregrine falcon (*Falco peregrine anatum*) may occur within the regional study area (D.Mossop, pers. comm., 2nd October 2002). Peregrine falcon are listed as threatened in Yukon (COSEWIC, May 2000). This designation is reserved for a population that is likely to become endangered if limiting factors are not reversed (COSEWIC). Short-eared owl (*Asio fammeus*) likely occur within the regional study area. This species is listed as a species of special concern by the Committee on the Status of Endangered Species in Canada (COSEWIC, April 1994). This designation is reserved for a population that is particularly sensitive to human activities or natural events but is currently not endangered or threatened (COSEWIC).

There is no empirical data available to assess population status and characteristics of bald eagles, peregrine falcons and short-eared owls within the regional study area. Contamination: bald eagles are vulnerable to the bioaccumulation of contaminants in their tissues due to their position in the aquatic food chain, i.e., fish eaters (D. Mossop, pers. comm., 2nd October 2002).

2.7.4.8 Furbearers and Small Mammals

Red fox, marten, lynx, least weasel, ermine, mink, snow shoe hare, and wolf likely occur within the regional study area. Wolverine is listed as a species of special concern There have been no empirical studies conducted on furbearers within the regional study area. Red fox (*Vulpes vulpes*), marten (*Martes americana*), lynx (*Lynx canadensiis*), ermine (*Mustela erminea*), least weasel (*Mustela nivalis*), mink (*Mustela vison*), snow-shoe hare (*Lepus americanus*), wolf (*Canis lupus*) likely occur within the regional study area. Wolverine is listed as a species of special concern by the Committee on the Status of Endangered Species in Canada (COSEWIC, April 1989). This designation is reserved for a population that is particularly sensitive to human activities or natural events but is currently not endangered or threatened (COSEWIC). Members of the Ross River Dene First Nation are known to trap marten, wolverine, lynx and wolves within the regional study area (K. Meister pers. comm., September 2002).



There are no empirical data available to assess population status or health of furbearers within the regional study area. There have been no empirical studies conducted on small mammals within the regional study area (C. Hubert, pers. comm. 13th September 2002).

2.7.4.9 Amphibians and Reptiles

No empirical data on amphibians exists for the regional study area There have been no empirical studies conducted on amphibians or reptiles within the regional study area (J. Adamczewski pers. comm., September 2002). Wood frog (*Rana sylvatica*) is likely the only amphibian to occur within the regional study area. Wood frogs can be found as far north as Old Crow YT and can inhabit forests, meadows, muskegs and alpine areas (YTG Renewable Resources & Environment Canada). Reptiles are not documented to occur within the regional study area. There are no empirical data available to assess population status and characteristics of amphibians within the regional study area.

2.8 SOCIO-ECONOMICS

2.8.1 SOCIO-ECONOMIC STUDY AREA

Potential socio-economic impacts caused by the project are assessed when they arise from a change in the environment caused by the project. This indirect consideration of socio-economic impacts does not, however, preclude the consideration of potential direct socio-economic impacts of the project.

Definition of socioeconomic study area. The RSA for socio-economic conditions is broadly defined as the Anvil Range area, with the Pelly River and Campbell Highway the southern boundaries, the Ross River the eastern boundary and the Tay River the western and northern boundaries (Figure 5). Thus, it includes anthropogenic features including the mine sites, the Faro townsite area and various roads on the north side of the Pelly River. The area includes the lands within the Rose, Anvil and Vangorda watersheds and parts of the Blind Creek watershed. A broadly defined study area was necessary as the resources upon which socio-economic conditions are based (i.e. caribou, sheep, moose) can be widely scattered across the landscape.

2.8.2 GENERAL SOCIO-ECONOMIC CONDITIONS

The RSA is a significant area of use for residents from the Town of Faro, the community of Ross River and other Yukon communities. Residents from as far away as Whitehorse travel to the region to hunt and fish. In addition, the Town of Faro is taking action in "selling" the region as a target market for Yukoners and travelers from neighboring jurisdictions (e.g. Alaska and British Columbia) as well as international travelers, such as Germany.



Summary information regarding the Town of Faro is provided in the subsequent sections. Information regarding historical and current activities by the Ross River Dena people is described in Section 2.9 of this volume.

2.8.2.1 Town of Faro

History

The Town of Faro has experienced significant population shifts from the time of its construction in 1968 when Anvil Mining Corporation established a community for employees of its lead-zinc- Faro Mine. Faro was developed as a mining town to house workers and provide services for the Faro Mine.

Town infrastructure was installed to service a population of approximately 3,000. In 1981, the population reached a peak of around 2,800 residents. In 1991, Faro's population was approximately 1,500.

Since the mine shut down, the population of Faro decreased significantly The Faro Mine shut down in 1998 and since then Faro's population has declined significantly. According to Statistics Canada, in 2001, the population of Faro was 313; these statistics also reveal 469 private dwellings. The statistics for December 2002 show the population increased to 375 (Yukon Bureau of Statistics) and is projected to grow to approximately 475 by the summer of 2004 (interview with Town Councilor, Michelle Vainio).

Infrastructure

Faro community infrastructure includes:

- the Municipal Hall;
- Municipal Works Yard;
- Del Van Gorder School;
- Faro campus of the Yukon College;
- Faro Nursing Station;
- Union Hall;
- Government of Yukon (YTG) Health and Social Services;
- Recreational Centre (with a full range of facilities);
- Indoor ice arena;
- Community library;
- Royal Canadian Mounted Police (RCMP) detachment;
- Canada Post (full-service post office);
- Retail mall;
- Two churches;
- Hotel and restaurant;
- Service station; and
- Airport (4,000 foot gravel runway with lights).



2004-2008 "Vision"

An official community plan for Faro has been drafted and encourages a more sustained sense of growth and direction

The elected Council for the Town of Faro has initiated a number of steps for the continued viability of the community. Much of the vision is based on the strength of the local businesses and attractiveness of the community as a recreational center of significance (hiking, hunting and fishing values), as well as a tourism destination.

The current draft of the Official Community Plan (OCP), 2003-2008 (anticipated to go to public hearing in April before being accepted by Town Council and forwarded to the Yukon Minister responsible), reveals an aggressive development and diversification plan relying on the continued inflow of population, and general interest in the region. The draft OCP describes the existing economy as an amalgam of the following activities:

- Small business sector (the mainstay of the Faro economy);
- Home based businesses (B&Bs, arts and crafts etc);
- Mine care and maintenance and reclamation opportunities;
- Government employment (local, territorial and federal);
- Wilderness tourism (fishing, recreational and guided hunting, canoeing, cross country skiing, hiking etc.)
- Cultural events (e.g. Farrago Music Festival and Ice Worm Squirm Winter Carnival);
- Robert Campbell Highway tourism; and
- Home base for those working away.

There is also an increasing population of retired people moving to Faro for the modest housing prices and lifestyle, and their activities provide economic stimulus to the local economy. The relationship between the Town's efforts and the Ross River Dena Council also figures prominently in the draft Plan.

Generally, the draft OCP "vision" for the economy over the next five years revolves around policies and actions in the following seven areas:

- Faro mine reclamation activities (priorities around health and safety and maximum community employment);
- Wilderness tourism (based on proximity to viewing opportunities, and natural "infrastructure");
- Retirement community (based on quality life style, low crime rate, affordable housing, excellent services);
- Artistic community (encourage more immigration to Faro of talent from other parts of Yukon and beyond);
- Government decentralization (movement of appropriate government operations to Faro given "level playing field");



- Home-based business (increase zoning flexibility to accommodate activities); and
- Mining history tourism (to capitalize on the existing knowledge base of residents).

Although the current mine site figures prominently in this draft OCP "vision" for the community and its economy, the Town is moving to a more sustained sense of direction, less dependent on the "boom-bust" cycles it has experienced during its history.

2.8.3 GENERAL LAND/RESOURCE USE

Hunting and fishing are popular activities in the area. The regional study area encompasses parts of, or all of five, hunting sub-zones in the Yukon's Zone 4 (noted on Figure 4). Although one of the five is closed completely to hunting (sub-zone 4-51 in and around the Town of Faro), the other four allow hunting of male moose and caribou, sheep (except sub-zone 4-46 just south of the Grum and Vangorda pits), spring and fall black bear, spring and fall grizzly bear, wolverine, wolf and coyote. This hunting capacity attracts both local hunters and hunters from elsewhere in the Yukon. The annual take is on average significant (e.g. in 2001 24 moose, 7 caribou and 2 sheep were taken from sub-zones 4-44, 45 and 46).

No land use plan has been established to date. Hunting is facilitated by continued access to Faro Mine lands for activities and for commuting to hunting areas (for instance, a ramp is provided over the main haul road. Although the Interim Receiver will maintain the right to close the mine site in part or in total for public health and safety reasons, there is presently no intention to restrict this current level of land access and use. Fishing is also a lifestyle choice of many of the local population, with the Rose Creek providing attractive fishing locations.

> To date, no Land Use Plan has been established for the regional study area as envisioned by Chapter 11 of the Yukon Land Claim Umbrella Final Agreement (there is no land claim in place as of the date of this EAR that provides for a Regional Land Use Plan for part or all of this regional study area).

> In addition, as per the official position of YTG, the Yukon Protected Areas Strategy is discontinued, and therefore no new protected areas will be established in the regional study area in the foreseeable future through this process. Furthermore, there are no land claims special management areas under consideration for the regional study area; at this point in time, negotiations are formally off among the Ross River Dena Council, and the governments of Canada and Yukon (Government of Yukon Land Claims Secretariat, pers. comm, 2003).

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2.9 TRADITIONAL USE

2.9.1 TRADITIONAL USE STUDY AREA

Traditional use, also referred to as the subsistence economy, refers to First Nations activities such as hunting, trapping, fishing, gathering of plant resources, and travel. Social activities such as gatherings, teaching of skills and cultural values, are also part of traditional use activities.

Anthropologist M. Weinstein, who documented the historic and current traditional use of Ross River Dena in the early 1990s, defined the subsistence economy as "food production (hunting, fishing and plant gathering); fur production; the use of natural materials as tools, for structural purposes; and non-food resources; the distribution and consumption of these resources; and the set of social relations, specific to native communities, through which the production, distribution and consumption of these resources are organized" (Weinstein, 1992).

Traditional land use practices are generally considered to be more than just food collecting or harvesting of resources that can be sold for money; they are critical activities that reflect the health of the community and its members.

Traditional land use practices are more than just food collecting or harvesting The regional geographical area for traditional use is broadly defined as the Anvil Range area, with the Pelly River and Campbell Highway the southern boundaries, the Ross River the eastern boundary and the Tay River the western and northern boundaries (Figure 5). Thus, it includes anthropogenic features including the mine sites, the Faro townsite area and various roads on the north side of the Pelly River. The area includes the lands within the Rose, Anvil and Vangorda watersheds and parts of the Blind Creek and Tay Creek watersheds. A broadly defined study area was necessary as the resources upon which traditional land use is based (i.e. caribou, sheep, moose) can be widely scattered across the landscape.

2.9.2 HISTORIC AND EXISTING TRADITIONAL USE DATA

2.9.2.1 Overview

While the following summary of traditional use data for the study area includes historic as well as current (1998-2002) data, the bulk of the discussion refers to the time before the mine was developed and the period of mine operation.

The sources for information on traditional use in the study areas are:

- Data from the Council for Yukon Indians (CYI) Resource Atlas for map sheet 105K (Tay River) assembled in the 1970s for land claims purposes;
- An anthropology thesis (McDonnell, 1975) that discusses the traditional land use activities of the Ross River people;

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- A retrospective study completed by anthropologist Martin Weinstein (1992) that is a detailed reconstruction of traditional land use in the mine area and changes to the traditional land use that occurred as a result of the mine;
- Aboriginal language toponyms (place names) for features on map sheet 105K (Tay River);
- A series of interviews conducted by anthropologist Sheila Greer with selected elders of the Ross River Dena community in December of 1999 to confirm if the findings of the Weinstein study were still considered valid and to record any additional information regarding land use (Greer 2000).
- A series of interviews conducted in the week of March 24th, 2003 as part of the current Water License EA by RRDC researchers Doris Dreyer and George Smith. Anthropologist Sheila Greer assisted with the first two days of these interview sessions. During these sessions, permission to release the information pertinent to the E.A. process with a wider audience was granted. Although transcripts of the interview sessions were not provided, a summary report titled "Ross River Dena Traditional Use Study for the Faro Mine Water License Application (2004 to 2008)" was prepared and provided by Ms. Dreyer and Mr. Smith. The discussion of current traditional use activities that follows herein is based on the Dreyer/Smith summary report as well as on Ms. Greer's personal notes. Further details regarding the interview process are given in Section 1.2.3 of this volume.

2.9.2.2 Historical Use Data

The oldest data set with any level of locational detail is the Council for Yukon Indians Resource Atlas material (Table 49). It includes details on two gravesite locations, and four cabin sites in the regional study area. All are situated outside the "local study area" or mine footprint area. Those within the regional study area are noted in the table and on Figure 5.

The Council for Yukon Indians data set cannot be taken as complete or necessarily locationally accurate; it was assembled to demonstrate occupancy and was not intended for land or resource management purposes. Cabin locations, for example, do not represent the geographic limit of land use activities. Rather they functioned as strategically located base camps from which land use activities would have taken place across the land.

Table 49. Coun	cil for Yukon	Indians Land	Use Data	(1970s)
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#	Location	Description
G-1	Pelly River, at Blind Creek area, within RSA	Gravesite, there are 6 to 7 people resting here
G-2	Pelly River, below Rose Mountain, within RSA	Gravesite, there are several people resting here
C-1	Cabin, mouth of Tenas Creek, on Pelly River	Arthur John, fishing and trapping
C-2	Cabin, Pelly River, below Rose Mountain, within RSA	Sid Atkinson, old trapping cabin
C-3	Cabin, Pelly River, below Rose Mountain, within RSA	Rose cabin, built by a white man
C-4	Cabin, Pelly River, at Van Gorder Creek, within RSA	Arthur John, trapping

C-5	Cabin, Pelly River, at Blind Creek, within RSA	Hoole McLeod and Jack Sterriah
C-6	Cabin, Pelly River, at Grew Creek	Jack Ladue, located on Blind Creek
C-7	Cabin, Blind Lake	Arthur John
C-8	Cabin, Blind Lake area	4 cabins, located on the mountain creek, the people used to hunt sheep from these cabins
C-9	Cabin, Orchay Lake	"Old Jules" very old site
C-10	Cabin, lake on Orchay system	Trapping
Source: CY	I Resource Atlas, files RRDC Land Claims Office	

The Weinstein study is the most detailed source on historic traditional use activities in the study area. The McDonnell anthropology thesis (1975) helps outsiders understand organizational principles of social groups, the importance of food and resource sharing within the society and how and why family groups moved throughout the course of a year. However, it does not feature detailed spatial data on traditional land use data, showing the areas used, which families were using these areas, when they were using them and for what purposes. Nor does it consider in any detail how land use patterns changed for the Ross River people with the opening of the Faro Mine.

The 1992 Weinstein study is the most detailed available source on historic traditional use activities in the study area, as it includes both data and analysis of land use activities. In the Weinstein study, land use at different periods is mapped to build a composite picture of changes to use of the area during the second half of the 20th century. Due to a lack of other information sources, recall information was the main way by which land use data were gathered. Many members of the Ross River Dena ("RRD") community, representing a range of ages, completed extensive questionnaires on individual land use patterns during the 1980s and early 1990s. Detailed maps of land use activities and patterns for 1990 were assembled. The study also incorporated in-depth map data collected during an earlier land use and occupancy study of the Ross River Dena traditional use area (Dimitrov *et al.*, 1984).

Locational data on cabins, salmon fishing camps, and main trails, some of which fall within the RSA, that were used prior to mine development are summarized in Tables 50, 51 and 52 (Weinstein 1992).

 Table 50.
 Cabins - Pre Mine Development

Location	Description		
Mouth of Blind Creek, on the	Associated with Blind Creek salmon fishery; cabins belonging to Jack Sterriah		
Pelly River, within the RSA	and Old Man Jules; latter now decayed.		
Present Faro Bridge Site, on the	At the time of Faro fire, 3 cabins, belonging to Joe Ladue, Joe Etzel, Arthur John		
Pelly River, within the RSA	burned. After fire, cabins rebuilt by Lydia Glada, Gordon Etzel and Arthur John.		
Fish Hook, near mouth of Anvil	Home base for the Ladue family; cabins belonging to Arthur John, Peter Ladue,		
Creek on the Pelly River, within	Jack Ladue and Joe Ladue.		
the RSA			
Swim Lake	There had been a complex of 3 cabins at Swim Lake, but they were destroyed		
	during a fire. Mid-century, tent camps in area.		
Blind Lake	Cabin belonging to Joe Ladue.		



Location	Description		
Tay Lake	Three cabins, belonging to Jack Ollie, Arthur John and Jack Sterriah.		
Poison Lake	Two cabins, belonging to Jack Sterriah and Long Hair John.		
Lake Near Tenas Creek	Cabin belonging to Duck Johnnie.		
Near Tenas Creek	Cabin belonging to Old Johnnie.		
Northeast slope of Mount Mye, within the RSA	Cabins belonging to Long Hair John and Jack Sterriah.		
West slopes of Dzel Jede; (mountain north of Mt. Mye, spelled Ktl Jhet by Weinstein)	Cabins belonging to Joe Ladue and Pat Pelly.		
Laforce Lake	Cabin belonging to Jack Ollie.		
Source: Weinstein 1992			

Table 51. Fish Camps - Pre Mine Development

Location	Description		
Blind Creek, within the RSA	Salmon fishing; used extensively by Hoole McLeod and family, Joe Ladue and family, Sid Atkinson and family, Oldman Jules and family, Arthur John and family, Jack Ladue and family, Jack Sterriah and family, Alec Shorty and family, Jack Ollie and family, and Skumballah Jack.		
Faro Bridge Site, within the RSA	Salmon fishing.		
Old Rose Creek, within the RSA	Salmon fishing.		
Source: Weinstein 1992			

Table 52. Trails - Pre Mine Development



Several key sources drew the Ross River people to the area, including salmon fishing, sheep, caribou, moose, and furbearers. Several families were directly affected by the development

Mine development resulted in some disturbances to the Ross River people

Trapping at a decreased level has continued in the study area According to Weinstein (1992), prior to the development of the Faro mine, the Anvil Range and Mount Mye area was one of two focal land use areas for the Ross River people. Several key resources were drawing the Ross River people to the area. These included the salmon fishery at tributaries of the Pelly River; sheep, which were found at various places around Mount Mye; caribou, which were also found in the Anvil Range and Mount Mye area; moose, which was found across the study area; and fur-bearers, the trapping of which tended to be focused on the valley bottom areas of the Pelly River and Blind, Anvil and Rose Creeks. The families who traditionally used the area directly affected by the development were the families of Selkirk Billy, Aklack, Billy Atkinson, Long Hair John, Gumbala, Nahlier, Pat Johnnie, Sue Bill, Joe Ladue, Hoole McLeod, Jack Sterriah, Old Man Jules and Jack Ollie's wife (Weinstein 1992: 88).

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Weinstein noted that although the Ross River people persisted with traditional use activities in the Faro area, the intensity of use changed as harvesters encountered the impacts of mine development. These included problems of restricted access with security gates and fencing and firearms use prohibitions; declines in local animal populations which resulted from disturbance, habitat loss and degradation, and increased competition from recreational hunters and fishers; fears of health risks from consumption of wild meat exposed to toxic substances; and increased amounts of disturbance. Disturbance ranged from simple curiosity of Faro residents, for whom the activities of Ross River Dena on the land were interesting anachronisms, to the malicious destruction of trapping sets, poaching of furs, theft of gear and vandalism of cabins (Weinstein 1992).

The Weinstein study noted that the geographic focus of traditional land use by the Ross River people changed significantly with the development of the Faro mine. It was reported that most individuals whose family lands were located in the mine and town development areas shifted their primary harvest effort to other accessible western areas of the band's territory (Weinstein 1992). This geographic shift meant that other parts of the traditional territory of the Ross River people became more heavily used.

The Weinstein study indicated trapping as one traditional use activity that has continued in the study area since mine development. It was noted that fewer individuals were participating in this activity, however.

Aboriginal language place names are another key source for information on traditional land use activities. Place names, or toponyms as they are also called, document key land use activities and often encode historical data. Important resource locales are also usually named (Cruikshank, 1990; Hanks and Winters, 1983). Toponymic data for map sheet 105K have been published (Kaska Tribal Council, 1997; Moore, 1999), and are reproduced on Figure 5. This list of names is an indication of the Ross River peoples' intimate relationship with the study area, and is suggested to be most useful for providing insight into the land use patterns of the Ross River people prior to the development and operation of the Faro mine complex.



Another data set for information on traditional use activities in the study are the 1999 interview sessions conducted by Greer with Ross River Elders. This work was a post-impact assessment, overview level rather than detailed, of the Faro and Ketza mines. The sessions recorded additional information on land use patterns for the period prior to mine development, as well as during the interval of mine operation.

The information shared by the individuals interviewed in 1999 concurred with the Weinstein conclusions. These are, that the presence of the mine resulted in community members shifting their harvesting activities out of the mine site area, and that trapping was one activity that continued to take place during the period of mine operation. Reference was also made in the 1999 interviews to hunting activities in the general study area during the period since the mine was developed. These activities were mentioned in reference to concerns individuals shared about the health of the environment, as it was noted that diseased animals have been harvested here since the mine began operating.

Current Use Data

The 2003 interviews with members of the RRD community documented details on the current (1998-2002 or post mine-shut down) traditional use activities in the general study area, as well as additional information on historic land use activities. The sessions also documented traditional knowledge data on the region's environment, which is presented elsewhere in this report. The summary presented here focuses on the current land use activities and is shared with the permission of the land users who provided the information on their activities. Maps depicting the locations of current traditional land use activities, e.g., berry harvesting sites, moose harvesting locales, trap set locations, trails, etc. were not made available in the Dreyer/Smith summary report.

A considerable number of RRD community adult members are reported to be carrying out traditional use activities in either the regional or local study areas. The number of land users, even an approximate number, cannot be specified from the available information, however. Individuals from all parts of the Ross River Dena traditional territory, not just members of certain families, are reported to now be using the study area. Users include Elders as well as younger community members.

Available information does not suggest that sheep hunting, a traditional use activity that was common prior to mine development, is presently taking place in the regional study area. At least some RRD community members are aware of their right to hunt sheep and of the presence of a healthy, abundant stone sheep population, and they indicated they desired sheep meat. These same individuals reported that they do not carry out this activity because they do not want to have the larger (non-native) community think negatively of Dena people. It was noted that with the development of the Blind Creek sheep wildlife viewing area, this species has been (re)defined by the non-native community as a local tourist attraction. For the RRD community members who talked about this issue, sheep

Members from all parts of the Ross River Dena community are reported to be using the mine area for traditional use activities since the mine closed.



are a source of country food and a species with which their people have had a long and intimate relationship. They reported that they believe they are being watched as they hunt sheep in the regional study area, and that they as individuals and as a community would be viewed negatively if they took this species.

Available information suggests that sheep, caribou, gophers and marmots are not being taken in the area

It is uncertain where trapping and berry & plant collecting activities are taking place

One Ross River Dena family fishes in the mine area; most avoid it because of environmental concerns

Good moose habitat is reported in the mine site area. Moose hunting appears to be the predominant traditional use activity current taking place in the study area Available information suggests that caribou hunting, a common activity in the RSA prior to mine development, is no longer taking place here for the simple reason that there are no caribou here. This animal, represented by the large subspecies that was resident in the Mount Mye area, is reported to have moved out when mine development began.

Hunting of gophers (ground squirrels) and groundhogs (marmots) took place in the mine site area prior to mine development. These animals used to be snared in the high country in the late summer/fall, and were then dried and cached for later retrieval. Despite its importance in prior times, the information that is available suggests that the harvesting of gophers and groundhogs is not currently taking place in the study area. This is because the two species, like caribou, moved out of the area when the mine was developed and they have not returned.

A couple of RRD community members are reported to be trapping in the RSA. No harvest statistics are available (species and numbers taken), however, nor are the locations of their lines and trap-sets known.

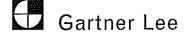
Available information suggests that some berry and plant collecting is taking place presently in the RSA, but the location of these activities is unknown. The specific locational data that is available suggests that berry collecting may be restricted to the most southern parts of the RSA, around the town of Faro, the Campbell Highway and the Pelly River.

One Ross River Dena family is reported as fishing in the mine site area. Others noted that they do not fish in the mine area because of concerns over the quality of the water and hence the fish. Fish continue to be taken at other locales in the RSA. Drinking water is reported to be collected at various creeks in the RSA, but information on the location of the creeks where water is collected has not been made available.

Moose hunting, including spotting or searching for the species, is believed to be the predominant traditional use activity in the study area. No details (number, age, sex) are available on the moose taken, nor on the ratio of successful to unsuccessful hunting events. This activity is reported to be taking place at all times of year.

At least some of the individuals interviewed reported that the plateau area where the mine site complex is situated is good moose habit, noting as well, that moose have been appearing in increasing numbers here since the mine shut down. These same individuals reported that moose hunting is taking place along the south flank of the Anvil Range, and further west, up Rose (North Fork), Faro and Next

> Anvil Range Mine Complex (Interim Receiver) 2004 to 2008 Water Licence Renewal Environmental Assessment Report Volume II of III: Existing Environment Page 2-114



Creeks, as well as in the Mount Mye area, that is north, south and east, of the Grum and Vangorda Pits.

Various historic aboriginal trails once crisscrossed the RSA (Table 5.5), with a couple running right through or across the LSA. The Vangorda and Grum Pits and the undeveloped Grizzly ore body for example, are situated right where the trail that ran from the Blind Creek valley up to the hunting country of Mount Mye was located. Some current land users reported that the landscape within the LSA has changed so much that they are no longer able to recognize the old trails that they walked on as youths, or even segments of the old trails, should they even still exist. The network of old trails in the RSA has been completely destroyed and they no longer form the basis of travel through the area.

The loss of the trail system with the development of the mine, coupled with the introduction of a road and access route network is believed to have had considerable impact on the pattern of land use activities in the local study area. Road accessibility is suggested to be an important variable when community members select the mine area for hunting. Available information suggests that individuals drive as far as they can on the mine road system i.e., until a gate or road block is encountered and then proceed further either on foot, or by snow machine or ATV. Difficulty in use of the latter equipment, however, was noted by RRD community Elders and request has been made to allow Elders to drive their vehicles beyond control gates for hunting purposes.

The importance of road accessibility to hunting in this area reflects how land use patterns have changed since the mine was developed. Prior to mine development, extended multi-day hunting trips out on the land, using the traditional trails to access preferred hunting areas, were the norm in this part, as it was in all other parts, of the Ross River Dena traditional territory. Available information suggests that many of the hunting trips now taken in the mine site area are day trips, where an individual or a small group of hunters travel into the mine site area, from a home base that is located elsewhere, such as Ross River. Hunting trips of longer duration, lasting up to two weeks, are noted as occurring, but the location of these trips is not known. At least some RRD community members noted, however, that overnight hunting trips in the study area are less desirable given the extent of disturbance and the area's heavy use by non-natives.

To conclude, available information suggests that while the range of traditional use activities that are currently taking place in the study area is certainly reduced from pre-mine times, the frequency of traditional use activities appears to have increased from that which took place during the years of mine operation and even since the 1999 interviews were conducted. Details are lacking, however, on specifically where the traditional use activities of trapping, berry and plant collecting, and water collecting are taking place within the regional study area. Moose hunting, is believed to be the predominant current traditional use activity, and moose hunting appears to be taking place in the local (mine footprint) and regional study areas. Fishing within the local study area (mine footprint) appears

The loss of the aboriginal trail system coupled with the introduction of roads and access routes has changed the way in which hunting takes place in this part of Ross River Dena traditional territory

Traditional use activities are believed to have increased in the mine area since operation ceased; they are expected to further increase as environmental conditions improve



to be an activity of limited appeal within the RRD community, being carried out by only one family.

2.10 HERITAGE RESOURCES

2.10.1 HERITAGE STUDY AREAS

In considering the potential for impacts to heritage resources both a local (mine footprint) and a RSA approach are employed. The LSA, the area of project activities, includes the footprint of the mine pits, tailings piles, diversion ditches and flumes, waste dumps, landfill sites and access roads. This study area is used when considering the potential for direct impacts to heritage resources, that is, disturbance or destruction of the resource.

The RSA for traditional use is broadly defined as the Anvil Range area, with the Pelly River and Campbell Highway the southern boundaries, the Ross River the eastern boundary and the Tay River the western and northern boundaries (Figure 5). Thus, it includes anthropogenic features including the mine sites, the Faro townsite area and various roads on the north side of the Pelly River. The area includes the lands within the Rose, Anvil and Vangorda watersheds and parts of the Blind Creek watershed. A broadly defined study area was necessary as the resources upon which traditional land use is based (i.e. caribou, sheep, moose) can be widely scattered across the landscape.

The RSA is employed when considering the potential for indirect impacts to heritage resources. It incorporates the Anvil Range and all of the Vangorda and Rose Creek Watersheds, and small parts of the Blind Creek and Tay Creek watersheds. The RSA thus includes the following anthropogenic features: the mine sites, the Faro townsite area and the various roads on the north side of the Pelly River.

Indirect impacts refer to the pilfering of moveable heritage resources (artifacts) from heritage sites through illegal collecting, or the unintentional destruction or vandalism of sites in the region, through increased human presence in the general project area. Another example of an indirect impact might be destruction of grave fences at gravesites located off the project property.

The potential for direct impacts to heritage resources is considered to be higher than the potential for indirect impacts, and therefore the potential for the former are examined more closely in an environmental assessment. Consideration of direct impacts to Heritage Resources is limited to the local study area, whereas for consideration of indirect impacts the regional study area is being used. This differential treatment is justified because the scale of proposed project activities is limited in nature i.e., care and maintenance, rather than extensive new development. Indirect impacts such as artifact pilfering and structure vandalism are more typical with a larger development projects in pristine or undisturbed



contexts. Similarly, the extent of human presence in the local and regional study areas in the period between when the mine was first developed to when it closed in 1998 is much larger by many orders of magnitude that which is expected to take place during the period of project operation. A larger population using the area would mean a greater chance of indirect impacts, and the anticipated small population means significantly less chance of indirect impacts.

2.10.2 CHARACTERIZATION/DEFINITION OF HERITAGE RESOURCES

The term heritage resource is used most often to refer to material remains that relate to human history. Of present concern are locale-specific resources, or heritage sites, where heritage structures or moveable heritage resources (artifacts) or structures are found. Natural landscape features, such as legend places and named places that are of historic or cultural significance can also be considered heritage resources or sites, even though they do not have material remains. This might be the case if such locales have heritage value to a group, such as the First Nations, who have traditionally lived in the area.

Archaeological sites are the most commonly recognized type of locale-specific heritage resource in Yukon. They are an important part of the Territory's record of human history since they are the material remains that represent the precontact (or prehistoric) way of life of the ancestors of the Territory's First Nations. Some prehistoric sites include above ground structures such as caches and hunting blinds.

Historic sites, featuring buildings or above-ground structures, as well as buried archaeological deposits, are another type of commonly recognized heritage site in the Territory. The upper cut-off or most recent date for historic sites varies; the Yukon Heritage Branch currently uses a date of ca. 1950.

In the Yukon, while paleontological finds are also considered Heritage Resources, impacts to paleontological sites are not considered as part of project development impact assessment studies. Nonetheless, it is worth noting that while there are no known paleontological sites in the RSA, a significant paleontological find area is located just outside of Ross River.

While the Ross River Dena Council are not signatory to the Yukon Umbrella Land Claim Agreement, this Constitutional document formally recognizes First Nations' interests in the Territory's heritage resources. First Nations own all heritage resources on Settlement Lands and all ethnographic moveable heritage resources that are found in their respective Traditional Territories that are directly related to the culture and history of Yukon First Nations people.



2.10.3 HISTORIC AND EXISTING DATA ON HERITAGE RESOURCES

For heritage resources, historic and current data are one and the same.

Information on heritage resources prior to, during and following the facility operation within the regional study area has been collected from the following sources:

- The Canadian Heritage Inventory Network database, which is the register for archaeological sites maintained by the Canadian Museum of Civilization (available at the Yukon Heritage Branch);
- The Yukon Historic Sites Inventory database, which is maintained by the Yukon Heritage Branch; and
- Existing sources on the history and traditional land use patterns of the Ross River people, including interviews with selected elders of the Ross River Dena community in Ross River conducted by S. Greer in December of 1999, and the more recent interviews conducted in 2003.

Review of the data in the Canadian Heritage Inventory Network shows that there are no registered archaeological sites within the RSA. Archaeological sites have been identified only a short distance outside the RSA boundary as well as around the Ross River settlement and elsewhere along the Campbell Highway.

There are no historic sites registered in the Yukon Historic Sites Inventory database. Review of the site files shows six historic sites, listed in Table 53, identified just outside the RSA boundary (also noted on Figure 5).

YHSI #	Name/Label	Location	Description/Comment*
105K/03/001	Pelly River Cabin Remains	Pelly River at Blind Creek	Believed to be associated with nearby Sawmill
105K/03/002	Pelly River Sawmill Remains	Pelly River at Blind Creek	Heavy timber frames
105K/03/003	Blind Creek Cabin & Dog Houses	Pelly River at Blind Creek	Abandoned; may have belonged to either Joe Ladue or Jack Sterriah
105K/03/004	Sawmill Buildings	Pelly River at Blind Creek	Equipment shed, 2 residence buildings
105K/03/005	Pelly River Foundation	Pelly River at Blind Creek	Related to lumbering, milling activities
105K/03/006	Blind Creek Grave Site	Pelly River at Blind Creek	5 standing grave fences, and "as many as 25 grave mounds"

Table 53. Registered Historic Sites Located Just Outside Study Area

Source: Yukon Heritage Branch, Historic Sites Office. * Note: little or no oral history research regarding these sites has been completed.

A significant collection of aboriginal language toponyms has been assembled by the Kaska Tribal Council (1997). The named landscape features within the regional study area are shown on Figure 5. There is no information in the available sources to indicate if any natural landscape features in the study area might be considered heritage resources by the Ross River people.

Deloitte & Touche

More detailed examination of the existing heritage resource data sources and related documentation shows, however, that:

- No archaeological or historic site inventory work has ever been completed in either the local (mine footprint) or regional study areas. That is, no information was collected on heritage resources in the mine area prior to development.
- Traditional Use data, recorded in interviews with selected Ross River Elders in 1999, as well as that which appears in earlier sources, and in the Dreyer/Smith summary report on the 2003 interviews, suggests that the RSA should have heritage site potential, since prior to the mine development it was a key land use area of the Ross River people. This means it was likely used in earlier times as well, and archaeological evidence of such prior use can be expected.
- A collection of Kaska language toponyms (place names) exists for the RSA, which suggests that there may be natural landscape features or specific locales in the RSA that might be considered heritage resources by the Ross River people.
- Two Ross River Dena gravesites are located in the regional study area. One of these gravesites (the Blind Creek graves) has been registered as a historic or heritage site (105K/03/006), but the second gravesite, located at Rose Creek along the Pelly River (see Table 5.1 in Traditional Use section) is not registered in any government heritage site database (either historic sites or archaeological sites database). Both gravesites are located outside the local study area.

In summary, it is reasonable to conclude that the lack of registered heritage sites in the LSA and RSA can be attributed to the lack of field research and inventory work, rather than the non-existence of heritage resources of interest. The presence of known archaeological and historic sites just outside the RSA is further support for the potential existence of heritage sites within the RSA or within the LSA. There could well be heritage sites within the Local Study area that have not yet been documented.

2.11 VALUED ECOSYSTEM AND CULTURAL COMPONENTS

2.11.1 RATIONALE

Definition of VECC

The detection of environmental effects from a project is complicated by the number of environmental components, vegetation and wildlife species, as well s the natural changes within locations of component study areas. CEAA recognizes that it is not possible, nor particularly useful, to measure effects on all possible receptors (at the component or species level); rather, it is advantageous to focus a limited number of locally significant and measurable receptors that will serve as surrogates for the environmental components as a whole. The same can be said for the social context.

Gartner Lee



This process involved the selection of a few Valued Ecosystem and Cultural Components (VECCs) for each environmental and social component (such as aquatic resources and traditional use). VECCs can be defined as features of the regional environmental and social setting selected to be a focus of an environmental assessment because of their ecological, social and economic value and their potential vulnerability to effects of the project. VECCs can then be used as a focus of the environmental assessment, as is done in Volume III – Effects Assessment.

In addition, for each VECC, indicators have been identified that can be used to measure changes in that VECC. Detailed descriptions of the selected VECCs and indicators are provided below.

2.11.2 Integration of Traditional Knowledge

Traditional knowledge is acquired by indigenous people over time through direct experience with the environment, and is considered equal to scientific knowledge in EA As defined under CEAA, Traditional Knowledge is the knowledge base acquired over hundreds of years by indigenous peoples through direct experience and contact with the environment. It takes several forms:

- An intimate and detailed knowledge of the environment including plants, animals and natural phenomena;
- The development and use of appropriate technologies and methods for hunting, fishing agriculture and forestry; and
- A holistic world view that parallels the scientific discipline of ecology.

Traditional knowledge carries the same weight in environmental assessment as scientific knowledge.

For this project, the descriptions of information for traditional land use and heritage resources (areas where traditional knowledge is essential) both identified information gaps that limited the ability to fully describe the conditions. Nonetheless, the information that is available on these topic areas is sufficient to allow for the assessment of the proposed project activities because of the limited scope of the activities (i.e. care and maintenance only).

The gathering and integration of traditional knowledge specific to this project is described in Section 1.2.3 of this volume. The consultation that took place during the environmental assessment process and the integration of the results of the consultation into the Project Description are described in Section 3 of Volume III.



2.11.3 VECCS AND INDICATORS

The selected VECCs and indicators are identified in Table 54. The indicators were selected based on the following selection criteria:

- presence in the regional study area;
- ecological importance;
- existing monitoring where a baseline is available;
- degree of exposure to stressors produced by the project;
- sensitivity to stressors produced by the project;
- socio-economic importance;
- traditional use importance; and
- heritage importance.

VECC indicators were selected as a means of measuring change in the VECC. These were selected based on the existence of data at established locations and the ability to detect measurable changes.

In total, 14 VECCs and 26 indicators were developed (as noted on Table 54). These are used in Volume III, Environmental Effects to determine where project activities will interact with the environmental and social components and to determine what effect, if any, these interactions will result in on the indicator and VECC.



Table 54. Valued Ecosystem and Cultural Components Defined for the Environmental Assessment

Component	VECC	Indicator							
Air Quality	air quality in the airshed	maintain air quality within territorial objectives (CCME CWS objective for							
		particulate)							
Water Resources	stream flow in the receiving environment	maintain pit elevations within desired range							
	stream flow in the receiving environment	maintain site water flow patterns							
	stream flow in the receiving environment	maintain water flow patterns off site							
	surface water quality in the receiving environment	zinc, sulphate and pH in Rose Creek at R2/X14							
	surface water quality in the receiving environment	zinc, sulphate and pH in Vangorda Creek at V8							
	groundwater flow in the receiving environment	maintain pit and pond surface water elevations within desired range							
	groundwater flow in the receiving environment	construction of new facilities or alterations to existing facilities that would result in							
		changes to groundwater recharge or discharge areas							
	groundwater quality in the receiving environment	subsurface zinc, sulphate and pH measured at site X16							
	groundwater quality in the receiving environment	subsurface zinc, sulphate and pH measured along the North Fork of Rose Creek							
	groundwater quality in the receiving environment	subsurface zinc, sulphate and pH measured below the Vangorda rock dump							
	groundwater quality in the receiving environment	subsurface zinc, sulphate and pH measured below the Grum rock dump							
Aquatic Resources	fish habitat	metals in sediment in Rose Creek (R2 to R5) compared to reference levels and CCME							
	fish habitat	metals in sediment in Vangorda Creek (V5, V27, V8) compared to reference levels and CCME							
	fish habitat	benthic invertebrate community structure (abundance and richness) in Rose Creek (R2 to R5) compared to reference communities							
	fish habitat	benthic invertebrate community structure (abundance and richness) in Vangorda Creek (V5, V27, V8) compared to reference communities							
	fish population health	metals in fish tissue (Arctic grayling liver and muscle, slimy sculpin whole body)							
	fish population health	fish presence and abundance							
Terrestrial Resources	wildlife habitat integrity	metals in vegetation							
	wildlife habitat integrity	vegetation community (structure, diversity)							
	wildlife population health	wildlife presence and abundance							
Socio-economics	commercial, subsistence and recreational use	Continued use opportunities							
Traditional Use	Aboriginal fishery	Continued fish harvesting opportunities							
	wildlife harvesting	Continued wildlife harvesting opportunities							
	plant harvesting	Continued plant harvesting opportunities							
Heritage Resources	heritage sites	No disturbance of heritage sites							

3 SITE CHARACTERIZATION

3.1 OVERVIEW OF SITE CHARACTERIZATION

A characterization of the environmental effects of the previous mining activities is not a direct input into the assessment of effects related to the proposed care and maintenance activities. However, such a characterization of historical effects does provide context for understanding the general conditions at the mine sites.

A comprehensive site characterization that describes the historical trends in environmental data and the impacts that the mine has had in the environment was compiled and submitted as Volume 2 of the May 2002 Project Description. Some information from that report is brought forward here for ease of reference, but readers are referred to that report for a more comprehensive description of the historical environmental impacts related to previous (i.e. pre-1998) mining activities.

Additionally, a summary of information that was gathered in 2002 regarding the rock piles around the mine site is summarized herein, with readers referred to the original report (SRK 2003) for more comprehensive descriptions.

3.2 SOIL QUALITY

3.2.1 PHASE 1 ESA METHODOLOGY

Soil samples were collected and analyzed to assess potential contaminants of concern at the site A Phase 1 Environmental Site Assessment was conducted in the fall of 1999 (GLL 2001) that included the collection and analysis of 58 surficial soil samples from various locations on the Faro and Vangorda Plateau Mine sites (noted on Figures 31 and 32). On the basis of known industrial activities that have occurred at the site, the potential chemicals of concern and their sources were identified as follows:

- 1. *Petroleum Hydrocarbons* from diesel fuel, gasoline, hydraulic and lubricating oils from the storage, use and disposal of fuels and oils;
- 2. Mill and Laboratory Chemicals from cyanide, xanthates, glycols and others;
- 3. *Heavy Metals* from mining, milling and processing of mineralized rock as well as naturally occurring concentrations due to natural geochemistry; and
- 4. *Transformer and Capacitor Fluids* potentially contributed from the former presence of PCB-containing electrical equipment.

Soil samples were collected as surface grab samples. The majority of the soil samples were analyzed to determine concentrations of extractable petroleum hydrocarbons (EPHs) and heavy metals (lead and zinc) with selected soil samples analyzed to determine concentrations of non-halogenated volatiles (BTEX compounds and VPH) polycyclic aromatic hydrocarbons (PAHs), metals and PCBs. One soil sample, collected beneath an area of treated timber storage, was analyzed to determine the concentration of chlorinated phenols and PAHs.



Samples were submitted for chemical analysis to provide confirmation for contaminant observations during the site inspection.

3.2.2 PHASE 1 ESA RESULTS

3.2.2.1 Petroleum Hydrocarbons

Details of elevated petroleum As indicated on Tables 55 and 56, elevated concentrations of petroleum hydrocarbons were noted in soil samples collected at the following locations:

- hydrocarbon concentration locations
- 1. *Faro mill site*: volatile petroleum hydrocarbon (VPH) and xylene from one sample of the berm, which are indicative of gasoline contamination;
- 2. The Emergency Diesel Generator and Fuel Supply: LEPH from one surface soil sample collected downslope of a historical fuel spill and two surface soil samples collected near the pumphouse and fuelling nozzle for the primary fuel tank, also evidence of small scale spills;
- 3. *Faro Lube Building*: LEPH concentrations in all of four samples and HEPH in one sample, with the source likely being diesel and heavy oils;
- 4. *Diesel Storage Tanks for Lube Shack Fuel Pump*: Samples LEPH in samples collected from the west side of the gravel berm and at the NE corner of the bermed area;
- 5. *Historic Fuel Storage Near the Core Shacks and at Scrap Area to NW of Faro Pit*: LEPH in samples collected directly adjacent to the tank pads and dispensing area;
- 6. *Waste Oil Handling Area*: LEPH and HEPH in the sample collected at the shipping container;
- 7. Partially Buried Waste Oil Tank and Washbay Diesel Tank: LEPH in the sample taken at the front of the washbay;
- 8. *Reagent Mix Building*: HEPH in one sample taken in front of the loading doors for the building;
- 9. *Grum Ore Haul Maintenance Shop*: LEPH in samples from the weigh scale and the east exit of the area; and
- 10. *Grum Lube Shop and Diesel Storage Tanks*: LEPH in two of the soil samples collected in the near a former aboveground fuel tank location at the lube shop and downslope of the lube shop area in the direction of surface runoff.

3.2.2.2 Lead and Zinc

The highest concentrations of lead and zinc were found near the concentrate load-out on the Faro Mine site Lead and zinc concentrations were also determined in selected soil samples collected from various areas. Metal concentrations in soil samples were determined from the old tailings spill area downstream of the Rose Creek tailing facility. Generally, the concentrations of lead and zinc detected in the soil samples are indicative of metal contamination from historical mining and milling activities.

		Truc	k Laydown:	Area	Tempor	ary Drum S	torage	Waste Oil Handling Area		Tank Cradle	Tank & Pumphouse 4		Emergency Generator & 5									
CCME ^a	YCSR ^b		1			2			3													
		TLA 1	TLA 2	TLA 3	TDS 1A	TDS 2A	TDS 3A	WHA 2	WHA 3	TC 2	TPI	TP 2	EG 1	EG 2								
		0-0.1	0-0.1	0-0.1	0-0.1	0-0.1	0-0.1	0-0.1	0-0.1	0-0.1	0-0.1	0-0.1	0-0.1	0-0.1								
ns																						
-	2000	<200	<200	<200	<200	<200	<200	569	7940	<200	30500	<200	<200	5400								
-	5000	556	272	732	512	<200	<200	2810	9340	306	3480	<200	<200	1310								
									· · · · · · · · · · · · · · · · · · ·													
		Reagent	Mix Bldg.	Waste O	il & Wash B	ay Tanks	Lube	Bldg.	Gasolir	e Tank No	ear Guar	dhouse	1									
CCME	VCCD	(6		7	-		8														
CCME	CCME	CCIME	CCIME	CCIME	CCIL	CCIME	CCIL	CCIME	ICSR	RMB 1	RMB 2	WOT 1	WOT 2	WOT 3	LB 1	LB 2	GT 1A	GT 1B	GT 2A	GT 3A	1	
			0-0.1	0-0.1	0-0.1	0-0.1	0-0.1	0-0.1	0-0.1	0-0.1	0-0.1	0-0.1	0-0.1	1								
ons													1									
-	2000	227	<200	<200	<200	4640	788	298	-	1340	-	-	1									
-	5000	5350	1200	251	920	310	3990	4100	-	<200	-	-	1									
es								••••••••••••••••••••••••••••••••••••••			·		1									
5	8	-	<0.04	-	-	-	-	-	0.08	-	0.14	0.97	1									
20	50	-	<0.05	-	-	-	-	-	4.89	-	0.09	0.89	1									
50	50	-	< 0.05	-	-	-	-	-	< 0.05	-	<0.05	<0.05	1									
20	50	-	0.09	-	-	-	-	-	95.4	-	0.51	7.84										
-	200	-	-	-	-	-	-	-	741	-	<100	<100	1									
	ns - - CCME ^a ns - - es 5 20 50	$ \frac{1}{100} = \frac{2000}{5000} $ $ \frac{1}{100} = \frac{2000}{5000} $ $ \frac{1}{100} = \frac{2000}{500} $ $ \frac{1}{100} = \frac{2000}{500} $ $ \frac{1}{100} = \frac{1}{100} $ $ \frac$	$\begin{array}{c ccmea} & \mathbf{YCSR}^{b} & \hline \\ \hline \\ \hline \\ TLA 1 \\ 0-0.1 \\ \hline \\ 0-0.1 \\ \hline \\ 0-0.1 \\ \hline \\ 0-0.1 \\ \hline \\ $	$\begin{array}{c c} CCME^{n} & YCSR^{b} & \hline 1 \\ \hline TLA 1 & TLA 2 \\ \hline 0-0.1 & 0-0.1 \\ \hline ns \\ \hline \\ - & 2000 & <200 & <200 \\ - & 5000 & 556 & 272 \\ \hline \\ \hline \\ CCME^{n} & YCSR^{b} & \hline \\ \hline \\ Reagent Mix Bldg. \\ \hline \\ \hline \\ 6 \\ \hline \\ RMB 1 & RMB 2 \\ \hline \\ 0-0.1 & 0-0.1 \\ \hline \\ \hline \\ \hline \\ RMB 1 & RMB 2 \\ \hline \\ \hline \\ 0-0.1 & 0-0.1 \\ \hline \\ $	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	CCME ^a YCSR ^b I ruck Laydown Area I emporary Drum storage Handling Area Cradle TLA 1 TLA 2 TLA 3 TDS 1A TDS 2A TDS 3A WHA 2 WHA 3 TC 2 0-0.1<	$\begin{array}{c ccmr} \mbox{YCSR}^{b} $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$								

Table 55. Extractable Petroleum Hydrocarbons and BTEX Compounds in Soil (ug/g)

Sample Location				Faro Lu		Tank F	arm	Coresha	ck Area	Tank Pad				
Location Number	CCME ^a	YCSR ^b		1	1		1	2	1:	3	14			
Sample ID	COME	ICSK	FLS 1	FLS 2	FLS 3	FLS 4	TF 1	TF 2	TF 3	TF 4	CA 1	CA 3	TAP 1	TAP 2
Sample Depth (m)			0-0.1	0-0.1	0-0.1	0-0.1	0-0.1	0-0.1	0-0.1	0-0.1	0-0.I	0-0.1	0-0.1	0-0.1
Extractable Hydrocarbons														
EPH (C10-19)	-	2000	2300	3690	10000	3480	9340	<200	<200	26200	12400	2540	404	1870
EPH (C19-32)	-	5000	1070	1490	4670	6790	1420	463	<200	737	3570	2310	<200	254
Non-halogenated Volatiles														
Benzene	5	8	-	-	0.01	-	-	-	-	•	-	-	-	-
Ethylbenzene	20	50	-	-	<0.01	-	-	-	-	+	-	-	-	-
Styrene	50	50		-	<0.01	-	-	-	-	-	-	-	-	-
Toluene	0.8	30	-	-	0.04	-	-	-	-	-	-	-	-	-
Total Xylenes	20	50	-	-	0.09	-	-	-	-		-	-	-	-
VPH	-	200	-	-		-	-	-	-	-	-	-	-	-

"<" = less than the analytical detection limit Notes:

^a CCME. 1999. Canadian Soil Quality Guidelines for Protection of Environmental Quality and Human Health ^a Government of Yukon. 1997. Contaminated Sites Regulation. Generic and Matrix Numerical Soil Standards

Exceeds the Yukon CSR standards for industrial land use Bold

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Table 55. Extractable Petroleum Hydrocarbons and BTEX Compounds in Soil (ug/g)

Sample Location			Grum Ore	haul Mainten:		ninistration rea	Lu	be Shop &	Old Shop & Grun Portal				
	CCME ^a	YCSR ^b		15		1	16		1	18			
Sample ID			OMS 2	OMS 3	OMS 4	GAA 2	GAA 3	GLS 1	GLS 2	GLS 3	GLS 5	OS 1	OS 4
Sample Depth (m)			0-0.1	0-0.1	0-0.1	0-0.1	0-0.1	0-0.1	0-0.1	0-0.1	0-0.1	0-0.1	0-0.1
Extractable Hydrocarbons						_							
EPH (C10-19)	-	2000	1980	7980	4150	-	<200	248	<200	3550	9280	<200	<200
EPH (C19-32)	-	5000	2870	4070	2250	-	<200	<200	<200	376	444	<200	<200
Non-halogenated Vola													
Benzene	5	8	-	-	-	< 0.04	< 0.04	-	-	-	-	-	-
Ethylbenzene	20	50	-	-	-	< 0.05	<0.05	-	-	-	-	-	-
Styrene	50	50	-	-	-	< 0.05	<0.05	-	-	-	-	-	-
Toluene	0.8	30	-	-	-	<0.05	< 0.05	-	-	-	-	-	-
Total Xylenes	20	50	-	-	-	< 0.05	< 0.05	-	-	-	-	- 1	-
VPH	-	200	-	-	-	<100	<100	-	-	-	-	-	-

Notes:

"<" = less than the analytical detection limit

⁴ CCME. 1999. Canadian Soil Quality Guidelines for Protection of Environmental Quality and Human Health

^a Government of Yukon. 1997. Contaminated Sites Regulation. Generic and Matrix Numerical Soil Standards

Bold Exceeds the Yukon Exceeds CCME Industrial Guidelines

Sample Location	CCME ^a Industrial	YCSR ^b Industrial		& Grum rtal	Faro Lube Shack	Orehaul Maintenance Shop		
Location Number	Guideline	Standard	1	8	11	15		
Sample ID			OS 3	OS 4	FLS 3	OMS 1		
Physical Tests								
рН			7.94	7.87	-	-		
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	-	-	0.01	-	<0.8	-		
Acenaphthylene	-	-	0.01	-	<0.2			
Anthracene	-	-	0.03	-	0.3	-		
Benz(a)anthracene	10	10	0.01	-	<0.1	**		
Benzo(a)pyrene	0.7	10	<0.01	-	0.02			
Benzo(b & k)fluoranthene	10	10	0.01	-	<0.01			
Dibenz(a,h)anthracene	10	10	< 0.01	-	<0.01	-		
Benzo(g,h,i)perylene	-	-	< 0.01	-	<0.01	-		
Benzo(k)fluoranthene	-	10	0.12	-	<0.1	_		
Chrysene	-	-	< 0.01	-	< 0.01	-		
Fluoranthene	-	-	0.17	-	0.1			
Fluorene	-	-	0.05	-	1.2	-		
Indeno(12,3)pyrene	10	10	< 0.01	-	< 0.01	-		
Naphthalene	22	50	< 0.01	-	<0.8	-		
Phenanthrene	50	50	1.15	-	2.2	-		
Pyrene	100	100	0.55	-	0.8	-		
Total Polychlorinated Biphenyls	33	15	-	-	-	<0.05		
Chlorinated Phenolics								
2,3,4-Trichlorophenol	5	5	<0.02	-	-	-		
2,3,5-Trichlorophenol	5	5	<0.02	-	-	_		
2,4,5-Trichlorophenol	5	5	<0.02	-	-	~		
2,4,6-Trichlorophenol	5	5	<0.02	-	-	-		
2,3,4,5-Tetrachlorophenol	5	5	0.08	-	-	-		
2,3,4,6-Tetrachlorophenol	5	5	0.2	-	-	-		
2,3,5,6-Tetrachlorophenol	5	5	0.08	-	-	-		
Pentachlorophenol	7.6	50	24.5	-	-	-		

Table 56. PAHs, PCBs and Chlorinated Phenols in Soil (ug/g)

Notes: "<" = denotes less than the analytical detection limit

^a CCME. 1999. Canadian Soil Quality Guidelines for Protection of Environmental Quality and Human Health.

^b Government of Yukon. 1997. Contaminated Sites Regulation. Generic and Matrix Numerical Soil Standards

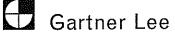
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Bold Sample exceeds CCME Industrial Guideline

Bold Sample exceeds Yukon CSR Industrial Standard

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As noted on Table 57 soil samples collected at the Faro Mine site contain higher concentrations of lead and zinc than samples collected at the Grum mine site due, likely to the presence of milling operations and the longer operating history. The highest concentrations of lead and particularly zinc were found in soil samples collected near the concentrate load-out on the Faro Mine site. The major source of metal contamination in surface soils within the Faro mill area was attributed to the presence of concentrate storage areas and vehicle tracking within the mine and mill site areas.

3.2.2.3 Summary

The following summary regarding surficial soil quality are repeated from GLL 2001:

In terms of surficial soil quality, several localized areas of concern were identified

- 1. Petroleum hydrocarbon contamination appears to be localized within the source areas for storage and dispensing of fuel and oil products;
- 2. Concentrations of LEPH were greatest at several fuel and oil storage and dispensing areas at the Faro and Vangorda Plateau Mine sites. PAHs and BTEX compounds were not present at elevated concentrations;
- 3. Levels of petroleum hydrocarbon contamination in soils are higher at the Faro Mine site than at the Vangorda Plateau, likely due to the longer history of mine operations; and
- 4. High concentrations of residual oils in surface soils were noted at the Faro Pit Lube Shop and Grum Lube Shop, which may be migrating from the source area via surface runoff.

The concentrate load-out area represents an area of concern with respect to the presence of residual concentrate and the associated elevated metal concentrations in surficial soils.

3.3 CONTAMINANT LOADING

3.3.1 METHODOLOGY

Contaminant loadings were calculated using 'predicted' and 'observed' loadings A preliminary contaminant loading study was completed in 2002 for sulphate and total zinc in Rose Creek (GLL 2002b). The results of water balances for the North Fork of Rose Creek, Rose Creek at X14 and Vangorda Creek were combined with measured and extrapolated concentrations of sulphate and zinc to provide calculated loadings for each of the time steps defined in the water balances. Total zinc was used for this study (rather than dissolved zinc) because the record of analysis for total zinc is much more extensive.

Loadings for the three areas were calculated in two ways:

• A "predicted" loading was calculated as the sum of the individual source terms; and

Sample Location	CCME ^a Industrial	YCSR ^b Industrial			se Creek ity Spill	Lmer	gency T sposal A		Truck Laydown Area		Temporary Drum Storage Area	Emergency Generator	Reagent Mix Bldg.	Lube Bldg.
Location Number	Guideline						20		1		2	5	6	8
Sample ID	Guidenne	Standard	RC#1	RC#2	RCB#3	TD#1	TD#2	TD#3	TLA 1	TLA 3	TDS 3A	EG 2	RMB 2	LB 1
Sample Depth (m)											0.1-0.2m	201	IGHD 2	
Physical Tests pH			3.06	3.67	5.52	8.09	2.16	3.21						
Total Metals		·	5.00	- 5.07		0.09	2.10	J.21			6.23		·····	
Antimony	40	40	<20	<20	<20	<20	<40	<20			26			
Arsenic	12	60	53	18	16	16	346	16	l		53			
Barium	2000	2000	146	669	362	178	4	373			34			
Beryllium	8	8	1.2	0.8	0.8	0.7	<1	<0.5		·	0.6			I
Cadmium	22	8-650 °	<0.5	<0.5	1.2	1.9	2.1	0.9			14.1			
Chromium	87	60	55	36	56	40	8	12			23			
Cobalt	300	300	11	10	14	10	103	4			10			
Copper	91	250	95	36	38	52	864	64			195			
Lead	600	2000	723	98	60	1240	209	553	3530	2110	9550	164	492	2210
Mercury	50	10	0.553	0.094	0.052	0.95	8.23	0.252			5.87		172	2210
Molybdenum	40	40	<4	<4	4	<4	<8	<4			<4		······	
Nickel	50	500	35	25	50	29	<10	8			22			
Selenium	10	10	<2	<2	<2	<2	<2	<2			<2			
Silver	40	20	<2	<2	<2	<2	16	<2			12			
Tin	300	300	<10	<10	<10	<10	<20	<10			<10			
Vanadium	130	-	64	46	75	37	20	27			34			
Zinc	360	600	433	108	198	1280	2670	568	4760	2730	10500	4590	16600	3250

Table 57. Metal Concentrations in Soil (ug/g)

Notes: "<" = denotes less than the analytical detection limit

" CCME. 1999. Canadian Soil Quality Guidelines for Protection of Environmental Quality and Human Health.

^{h.} Government of Yukon. 1997. Contaminated Sites Regulation. Generic and Matrix Numerical Soil Standards.

^c Standard varies with soil pH

Bold Sample exceeds CCME Industrial Guideline

Bold Sample exceeds Yukon CSR Industrial Standard

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Sample Location	CCME ^a Industrial	YCSR ^b Industrial	Waste Oil & Wash Bay Tanks	Gasoline Tank Near Guardhouse	Faro Lube Shack 11		Oil Tank Farm 12	Coreshack Area	Orehaul Maintenance Shop	Grum Lube Shop & Diesel Tanks 17		Old Shop & Grum Portal 18
Location Number	Guideline	Standard	7	10				13	15			
Sample ID	Guideline	Stanuaru	WOT 2	GT 3B	FLS 1	FLS 4	TF 2	CA 3	OMS 4	GLS 1	GLS 2	OS 4
Sample Depth (m)				0.2-0.3								
Physical Tests pH												7.87
Total Metals												7.01
Antimony	40	40										<20
Arsenic	12	60								ł		52
Barium	2000	2000										224
Beryllium	8	8							· · · · · · · · · · · · · · · · · · ·		1	0.5
Cadmium	22	8-650 °										1.4
Chromium	87	60								·		44
Cobalt	300	300										16
Copper	91	250										47
Lead	600	2000	81	4800	1140	2370	805	1220	636	547	152	257
Mercury	50	10										0.264
Molybdenum	40	40										<4
Nickel	50	500								[48
Selenium	10	10										<2
Silver	40	20										<2
Tin	300	300								~~~~		<10
Vanadium	130	-										35
Zinc	360	600	223	4150	1890	10100	2340	1150	1220	825	174	570

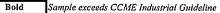
Table 57. Metal Concentrations in Soil (ug/g)

Notes: "<" = denotes less than the analytical detection limit

^a CCME. 1999. Canadian Soil Quality Guidelines for Protection of Environmental Quality and Human Health.

^h Government of Yukon. 1997. Contaminated Sites Regulation. Generic and Matrix Numerical Soil Standards.

^{c.} Standard varies with soil pH



Bold Sample exceeds Yukon CSR Industrial Standard



• An "observed" loading was calculated from sulphate and zinc concentrations and extrapolated flows at the downstream monitoring location for each area: location X2 for the North Fork of Rose Creek, location X14 for Rose Creek and location V8 for Vangorda Creek.

The predicted and observed loadings were compared as a means of assessing the ability of the model to adequately predict the actual loadings.

3.3.2 ROSE CREEK METAL CONCENTRATIONS

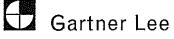
The following notes apply to the concentrations used for the North Fork of Rose Creek:

- 1. Concentrations for location R7 were applied to runoff areas unaffected by mine developments such as runoff from the south side of the North Fork valley;
- 2. Concentrations from database station FAROCR were applied to flow from the Faro Creek Diversion;
- 3. Concentrations for groundwater wells BH12, BH13 and BH14 were applied to flow from the Northeast Rock Dump. The shallow groundwater flow was used because this has been regularly collected (twice per year) whereas some intermittent freshet surface flows have been sampled in recent years but this data are sparse and irregular;
- 4. Concentrations for groundwater wells BH1, BH2 and BH4 were applied to seepage from the Zone II Pit;
- 5. Concentrations for groundwater wells P96-6, S1, S2 and S3 were applied to runoff from the Intermediate Rock Dump; and
- 6. Concentrations for database station X2 were applied to the combined flow at location X2.

For the time steps incorporated into this study, three sulphate concentrations and two zinc concentrations were extrapolated from neighbouring data to "patch" the record in places where no data was available.

The following notes apply to the concentrations used for Rose Creek:

- 1. Flow from the North Fork of Rose Creek was treated as a single source using the measured concentrations at location X2 (i.e. corresponding to the "observed" loadings per section 4.2);
- 2. Concentrations for location R7 were applied to runoff areas unaffected by mine contaminants such as runoff from the South Fork of Rose Creek, the North Wall Interceptor Ditch and runoff from the south side of the Rose Creek Diversion Canal;
- Concentrations for location X5 were applied to surface release from the Cross Valley Pond;
- 4. Concentrations for location X13 were applied to seepage at the toe of the Cross Valley Dam;





- 5. Groundwater concentrations in the aquifer as presented in the 2001 Tailings Investigation Study (GLL, 2002) were applied to groundwater discharge to surface between the Cross Valley Dam and location X14;
- 6. Surface runoff between the Cross Valley Dam and location X14 was provided as a separate line item to provide flexibility for future sensitivity analyses with respect to the 1975 tailing spill; concentrations for location R7 were applied to this flow in this study;
- 7. Concentrations for database station X14 were applied to the combined flow at location X14; and
- 8. One sulphate concentration for location X14 was increased slightly because the data set excluded samples during a period of release of higher sulphate water from the Cross Valley Pond.

3.3.3 ROSE CREEK LOADINGS

The loading calculations for the North Fork of Rose Creek provide the following observations:

- 1. The model predicts 111% of the observed sulphate loading at location X2, which is considered to be a good correlation for this stage of study;
- 2. The model predicts 77% of the observed zinc loading at location X2; however, the model predicts 90% of the observed loading when one poorly correlated time step (time step no. 10) is excluded, which is considered to be a good correlation for this stage of study;
- 3. The largest source sulphate loading (over the entire period of study) was natural runoff upstream of location R7 (43% of total) followed by the Faro Creek Diversion and the Intermediate Rock Dump (23% and 22%); and
- 4. Given item no. 2 above, the largest source of zinc loading (over the entire period of study) was natural runoff upstream of location R7 (52% of total) followed by the Faro Creek Diversion (31%).

The loading calculations for Rose Creek at location X14 provide the following observations:

- 1. The model predicts 61% of the observed sulphate loading and 68% of the observed zinc loading at location X14, which suggests an imprecise or unknown source term that requires further investigation;
- 2. The trends in loadings indicate summer peaks corresponding to periods of surface release from the Cross Valley Pond (X5);
- 3. The largest source of predicted sulphate loading (over the entire period of study) was surface release from the Cross Valley Pond (47%) followed by seepage from the Cross Valley Dam (29%); and
- 4. The largest source of predicted zinc loading (over the entire period of study) was the North Fork of Rose Creek (50%) followed by surface release from the Cross Valley Pond (32%).

The models for the North Fork of Rose Creek and Rose Creek predicted the largest sources of sulphate and zinc loadings

3.3.4 VANGORDA CREEK METAL CONCENTRATIONS

The following notes apply to the concentrations used for Vangorda Creek:

- Concentrations for location V1 were applied to runoff areas unaffected by mine contaminants such as the Vangorda Creek Diversion Flume and runoff from into Vangorda Creek below Shrimp Creek;
- Concentrations for location V25BSP were applied to flow from the Grum Interceptor Ditch;
- Concentrations for location V2 were applied to runoff from the majority of the Grum Rock Dump (approximating Grum Creek drainage area);
- Line items for seepage from the Vangorda Rock Dump and Little Creek Dam were incorporated into the study to allow flexibility in future sensitivity analyses and assumed concentrations were applied for this study;
- Concentrations for database location V4 were applied to flows from Shrimp Creek; and
- Concentrations for database stations V5 and V8 were applied to flow from the West Fork of Vangorda Creek and Lower Vangorda Creek, respectively.

One sulphate concentration for location V4 (Shrimp Creek) was extrapolated from other data for a time step where no data were available.

3.3.5 VANGORDA CREEK LOADINGS

The model for Vangorda Creek showed the largest source for sulphate and zinc loadings was the west fork of the Vangorda Creek The loading calculations for Vangorda Creek at location V8 provide the following observations:

- 1. The model predicts 73% of the observed sulphate loading at location V8, which is considered adequate for this stage of study but should be followed with further investigation;
- 2. The model predicts 74% of the observed zinc loading at location V8, which is considered adequate for this stage of study but should be followed with further investigation;
- 3. The largest source of sulphate loading (over the entire period of study) was the West Fork of Vangorda Creek (56%) followed by the Grum Rock Dump via Grum Creek (18%); and
- 4. The largest sources of zinc loading (over the entire period of study) were the West Fork of Vangorda Creek (25%) and the Grum Rock Dump via Grum Creek (23%) followed by the Vangorda Creek Diversion Channel (19%) and the Grum Interceptor Ditch (17%).



3.4 ROSE CREEK TAILINGS FACILITY

3.4.1 SUMMARY OF ACID GENERATING POTENTIAL

The Rose Creek Tailings Facility contains tailings demonstrating strong acid generating potential The Rose Creek Tailings Facility contains tailings with demonstrated strong acid generating potential (i.e. surface tailings with pH less than 1.5). Oxidation of the exposed tailings over the life of the mine has produced a store of soluble oxidation products, including sulphates, soluble metal salts and acidity. A large portion of the oxidation products appear to be stored in the tailings, due to the buffering of underlying unoxidized tailings.

A comprehensive hydrogeological and geochemical investigation of the tailings facility was conducted in 2001 (GLL 2002c) that included the collection of insitu samples of tailings and subsequent analysis by static and kinetic test procedures. The study included a comparison of the 2001 information to similar geochemical information that had been collected 11 to 15 years earlier (1986 to 1990) through several studies. A summary of the conclusions of the 2001 geochemical interpretation as repeated from GLL 2002c is as follows:

- A summary of the conclusions of the 2001 geochemical interpretations
- 1. Oxidation of tailings in the unsaturated zone has increased since the 1988-1990 studies as displayed primarily by lower paste pH to greater depths;
- 2. The water level within the tailings controls the extent of oxidation. This is an important consideration for reclamation since lowering the water elevation in the Intermediate Pond will lower the water level in the tailings upgradient of the pond;
- 3. Oxidation products (represented by sulphate and zinc) have reached the tailings/native soil interface at most locations. The sulphate "front" has migrated deeper than the zinc "front". This is interpreted to be due to attenuation of zinc enabled by neutral pH within the saturated zone of tailings;
- 4. Tailings in the southeast end of the Second Impoundment and unsaturated tailings in the northern area of the Original Impoundment are highly oxidized relative to other areas. This is considered to be due to the predominantly coarse particle size and well-drained, unsaturated conditions that have existed at times over the life of the operation; and
- 5. The southeast end of the Second Impoundment and the northern area of the Original Impoundment are calculated to be the source of approximately 75% of the sulphate load in the aquifer. These two areas occupy only approximately 20% of the total surface area of the tailings impoundments. This suggests that surface remediation of these areas may represent an efficient means of substantially reducing contaminant loading to the aquifer.



3.4.2 SUMMARY OF WATER QUALITY

3.4.2.1 Overview of Available Groundwater Quality Information

Eleven wells were installed within each of the impoundments as part of a hydrogeological and geochemical investigation of the tailings facility A series of groundwater wells were installed in 2001 as part of a comprehensive hydrogeological and geochemical investigation of the tailings facility: P01-01 to P01-11. These wells are located within each of the impoundments, at the toe of the Intermediate Dam and downgradient of the Cross Valley Dam. These monitoring wells complement the information collected from older wells that were installed in 1981 and 1996.

Three data sets are available for the complete set of 2001 and older monitoring wells: fall (September) 2001 (at the completion of the 2001 drilling activities), spring (June) 2002 and fall (September) 2002. The fall 2001, spring 2002 and fall 2002 data are tabularized and provided in Appendix D. A summary comparison of select parameters for the three recent data sets is also presented in Appendix D.

3.4.2.2 Summary of Observations

Summary observations of the 2001 and 2002 groundwater quality information The 2001 and 2002 groundwater quality information provides these summary observations:

1. Contaminants leached from the tailings are present at depth in the native aquifer beneath the tailings impoundments and, in some locations, contaminant concentrations increase with depth;

This is a somewhat unexpected observation and the precise mechanism for dispersion of contaminants to depth has not been identified given the verification by the hydrogeological model that contaminants would be generally expected to travel in the upper zone of the aquifer.

2. Tailings porewater migration within the aquifer does not transport zinc to downgradient areas in substantial concentrations that would allow zinc to be utilized as an indicator of the extent of porewater migration;

This is not unusual for groundwater migration from sulphidic materials due to chemical and physical mechanisms within the tailings and aquifer that can attenuate the mobility of zinc.

3. Based on observed concentrations of SO₄, porewater migration extends downgradient of the tailings deposit to the toe of the Cross Valley Dam and may have reached the furthest downgradient monitoring wells in the valley centre (locations X17 and X16); and

Additional investigation and sampling may be beneficial to more precisely determine the "background" level. The current conclusion is based on comparison to sampling upstream of the tailings impoundments.

4. A concentration gradient appears to exist across the width of the valley with greater concentrations of SO₄ observed along the north side. This gradient has been evident since around 1987 at location X18 (as compared to locations X16 and X17). Although the root cause is not clearly understood, the lateral gradient may extend upstream into the Intermediate





Impoundment where greater concentrations of SO_4 in tailings and in the shallow aquifer are observed on the north side of the valley (locations P01-06 and X21) than in the valley centre (location P01-05)

3.4.3 HYDROGEOLOGICAL MODEL

3.4.3.1 Approach

Tasks related to groundwater modelling A hydrogeological model for the Rose Creek Tailings facility was completed as part of the 2001 comprehensive hydrogeological investigation. The following four tasks related to groundwater modeling were completed:

- 1. Review of hydrogeologic data to be used in model development;
- 2. Development and calibration of the groundwater flow model;
- 3. Model analyses to demonstrate flow paths, travel times and contaminant loadings; and
- 4. Presentation.

3.4.3.2 Review of Hydrogeologic Data

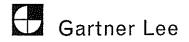
Key factors determining flow paths, travel time and contaminant loadings Several key factors determine flow paths, travel times and contaminant loadings. These include local stratigraphy, the hydraulic properties of the water-bearing units on-site (i.e. the various types of tailings, native soils, and upper bedrock), rates of recharge, and rates of groundwater discharge to the lower reaches of Rose Creek. A great deal of data was available from historical investigations and from the 2001 field investigation and was compiled into a Microsoft Access and ViewLog geologic database system. The data was analyzed to refine the understanding of the stratigraphy within the Rose Creek valley and estimates of aquifer properties that were needed for development of the groundwater flow model were derived.

3.4.3.3 Development and Calibration

A conceptual model was formulated including an evaluation of the key factors affecting groundwater flow

MODFLOW was used to transform the conceptual model into a detailed numerical model A conceptual model was formulated as an interpretation of the hydrogeological setting of the study area that included an evaluation of the key factors affecting groundwater flow. Model geometry, boundaries, and initial values for aquifer properties were determined based on the review of existing data and analysis of new information.

The conceptual model was transformed into a detailed numerical model for the Rose Creek valley utilizing the U.S. Geological Survey MODFLOW code ("MODFLOW"). MODFLOW is a three-dimensional, finite-difference code capable of simulating transient and steady-state flow in multi-layered, confined and unconfined, aquifer systems. The computer code is recognized worldwide and has been extensively tested and verified. The code is ideally suited to simulate the highly variable tailings and overburden materials in the study area.



An MS-Access database contains information from wells and test holes

Information from wells and test holes related to stratigraphy, formation properties, and observed water levels and water quality data are contained in an MS-Access database base linked to ViewLog for graphical display and analysis. Model development is made easier through special geostatistical analysis functions used to interpolate hydrogeologic data to the model grids.

A finite-difference grid was designed to represent the study area. Model layers A finite difference grid were used to represent the various hydrogeologic units (i.e. tailings, sand and was designed to gravel, basal till, upper bedrock). Estimates for soil and tailing properties and represent the study recharge and discharge rates were used in the initial model runs. Model calibration was conducted by adjusting the initial estimates of aquifer properties and recharge rates until a close match with observed water levels and flow directions was achieved. Sensitivity analyses were conducted to verify the accuracy of the calibration. The particle tracking model, MODPATH, was used to illustrate flow paths and the location of recharge and discharge zones.

3.4.3.4 Analyses

area

The model was run for various test cases and scenarios with the intent of characterizing the existing subsurface flow regime in the Rose Creek valley. Various scenarios of source terms for particle tracking were analyzed and several selected for presentation that were considered to most clearly characterize the system

3.4.3.5 Presentation

Modelling input data and results are presented in Gartner Lee 2003d.

The raw stratigraphic information used to develop the conceptual model, the parameters used to develop and calibrate the model and the results of model runs that characterize the existing subsurface flow regime are presented in Gartner Lee 2003d. Model input data is presented in tabular format, contour maps or cross sections, as appropriate. Model results, including modeled potentials, drawdowns, and groundwater flow paths under existing hydrogeologic conditions are presented along with an analysis of model results. Stratigraphic sections and borehole logs were provided from the database and presented with geophysical and groundwater quality data as an aid in interpretation of those data.

ROCK DUMPS 3.5

3.5.1 1996 STUDIES – FARO SITE

The geochemistry and ARD potential of the Faro Rock Dumps (see Volume I for a discussion of the dumps and detailed locations) was evaluated as part of the development of the 1996 closure plan (RGC 1996). The evaluation consisted of both a static and kinetic testing program. A summary of the geochemical information, as repeated from RGC 1996, is provided below.



The 5 main rock units identified in the Faro Main pits

Conclusions of the

static and kinetic well testing program The five main rock units identified in the Faro Main Pits and, thereby, in the rock dumps were as follows:

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- 1. Non-Calcareous Schists (Unit 1): includes schist and altered schist from Faro, phyllite from Vangorda Plateau, and carbonaceous phyllite and schist;
- 2. Sulphides (Unit 2): includes massive and disseminated sulphides and also ribbon banded graphic quartzite from Faro;
- 3. Calc-Silicate (Unit 3): includes calc-silicate found primarily at Faro but elsewhere in the district and calcareous phyllite from Vangorda Plateau but also elsewhere in the district;
- 4. Intrusives (Unit 4): includes both intrusives from Faro and meta-intrusives which can be massive or foliated; and
- 5. Overburden (Unit 5).

Based upon the results of the static and kinetic cell testing programs the following was concluded:

- 1. The Unit 1 rock type (i.e., non-calcareous schists) could be initially classified as a potentially weak acid generator. However, based on the results of the static and kinetic testing programs it is unclear if this rock type will become significantly acidic in the future. Further kinetic cell testing is required to determine the long-term pH drainage characteristics of this rock type. The testing also indicated that long-term metal leaching, primarily zinc, would occur from this material;
- 2. The Unit 2 rock type (i.e., sulphide and pyritic quartzite) could be characterized as a relatively strong acid generator with significant levels of associated metal production. Production of acid and various metals from this rock type was considered likely to be rapid due to the high levels of contained sulphur and the lack of any significant levels of neutralizing capacity;
- 3. The Unit 3 rock type (i.e., calc-silicate) could be classified as a relatively strong acid consumer with the potential for the long-term release of low levels of soluble zinc; and
- 4. The Unit 4 rock type (i.e., intrusives) could be classified as generally inert. No significant levels of acid producing or acid consuming minerals were present in the intrusives. In addition, no significant levels of leachable metals were present in this rock type.

Strong acid generation is only anticipated from approximately 10% of the total waste rock in the Faro Rock dumps In summary, strong acid generation is only anticipated from approximately 10% to the total waste rock in the Faro Rock Dumps (i.e., sulphides). The potential for weak acid generation from the schists is a possibility and could potentially increase the acid drainage problem at the site if it were to occur. Metal leaching, primarily zinc, is anticipated to occur at various rates from greater than 90% of the waste rock in the Faro Area.

From an ARD point of view the intrusives appear to be the best material available for construction at the site due to their minimal acid generating and metal leaching characteristics.

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3.5.2 1989 AND 1996 STUDIES - VANGORDA PLATEAU SITE

Two acid rock drainage assessment programs were conducted that characterized rock groups mined in the Grum and Vangorda Pits. The 1989 Initial Environmental Evaluation (IEE) report (Curragh 1989) that was prepared as part of the water licensing process included a geochemical characterization of sulphides and phyllites. The 1996 ICAP study (RGC 1996) included geochemical testing that was intended to complement the earlier work and fill in data gaps. The ICAP study included a summary presentation of the earlier test results that was used for this overview. Both studies included both static and kinetic testing.

The following are the primary observations provided in RGC 1996 regarding the available geochemical information:

Primary observations provided by RGC 1996 on available geochemical information.

- 1. Sulphides from both the Grum and Vangorda Rock Dumps are potentially acid generating and capable of releasing metals over a wide pH range including neutral pH;
- 2. Vangorda phyllites are slightly acid generating and capable of releasing metals over a wide pH range;
- 3. Test results for Vangorda Pit phyllites are not directly applicable to the Grum Rock Dump but a correction factor of 12.5% may be appropriate; and
- 4. Application of the suggested correction factor to Vangorda phyllite test results suggests that Grum phyllites might not be acid generating and might not release metals in significant quantities.

The Vangorda rock dump oxidized fines contain a relatively high acid production potential. The oxidized fines (Vangorda rock dump, see Volume I for discussion and location) is completely depleted of neutralization potential and contains a relatively high acid production potential, in a range similar to sulphides. The oxidized fines contain a ready store of soluble oxidation products and extraction testing confirmed that metals are readily leached from this material in high concentrations. Several metals were extracted from the oxidized fines in concentrations at least one order of magnitude higher than extracted from a sample of fresh (unoxidized) massive sulphide.

3.5.3 2002 STUDIES

A geochemical study of the Faro and Vangorda Plateau rock dumps was undertaken in 2002 to update the existing body of information and to assess how contaminant loadings from the dumps might change over time (SRK 2002). The 2002 work included:

- 1. data review;
- 2. two detailed surface seep sampling surveys (spring and fall);
- 3. surface mapping and test pitting on rock dumps;
- 4. drilling and sampling of boreholes with installation of downhole oxygen and temperature probes; and

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5. initiation of laboratory testing for acid rock drainage characterization (intended to be ongoing).

The following is the Executive Summary of the 2002 project report provided by SRK Consulting (pers. comm., S. Day):

"The Anvil Range Mining Complex, located in Faro, Yukon, ceased operations in January 1998 when Anvil Range Mining Corporation filed for creditor protection under the Companies' Creditor Arrangement Act. Deloitte & Touche Inc. was appointed Interim Receiver of Anvil Range Mining Corporation ("Interim Receiver") on April 21, 1998. The Interim Receiver has overseen the management of the property The Interim Receiver has overseen the management of the property under the terms of two water licenses since that time. SRK Consulting is evaluating various aspects of the site as part of closure planning for the complex. This report describes progress on the investigation of the geochemical stability of waste rock.

Mining in both areas of the complex (Faro Site and Vangorda Plateau) was dominantly by open pit. Both areas involved significant pre-stripping of overburden and rock, and ongoing waste rock stripping as mining proceeded. At both sites, several hundred million tonnes of waste rock were produced and placed in nearly 40 dumps, fill areas and stockpiles.

Waste rock in both areas comprises rock types with geochemical characteristics that range from already acid generating to potentially acid generating and acid consuming. Monitoring data indicates generally that seepage is non-acidic, with some exceptions, but often contains elevated concentrations of zinc and cadmium. The long-term trend in seepage chemistry is an important consideration for remedial planning. The objectives of this project are therefore to evaluate the current sources of contaminant loadings from the site and evaluate how these sources might change in the long term.

This report reviews the existing information (Phase 1) and the programs implemented in 2002 to collect additional information and samples for testing (Phase 2). The testing program (Phase 3) is currently underway.

A bibliography of more than 250 reports was compiled based on existing document lists at SRK Consulting, Deloitte & Touche Inc., Access Consulting Group (ACG) in Whitehorse, the Yukon Water Board and Indian and Northern Affairs Canada. These reports were ranked according to title and four individuals at SRK and ACG reviewed the 140 top-ranked documents. Review comments were compiled using a standard template. The documents were reviewed to evaluate the adequacy of the existing geochemical database, operational procedures for managing waste rock, the inventory of rock in the waste rock dump and the loading of acidity from various sources. The main conclusions of the review were: (1) the extensive water quality database is not easily accessed due to the version of software used to manage the data; (2) the rock geochemical database is useful but more testing will be needed to link the data to field



conditions; (3) no documents describing operational procedures are in the public domain; and (4) a detailed inventory of rock types for the Faro waste rock dumps has been completed, but the degree to which different rock types were mixed is not well known.

Field work completed in 2002 included two seepage surveys (June and September), surface waste rock mapping of several waste rock dumps in both mining areas, excavation of 100 test pits and trenches (including five along the Vangorda Plateau Haul Road), drilling and instrumentation of seven holes in waste rock and collection of bulk water samples from the pit lakes.

The seepage surveys showed that a wide range of water chemistry exists in the Faro area with water chemistry broadly correlated to surface waste rock type. Seepage chemistry at the Grum and Vangorda waste rock dumps showed that zinc and sulphate concentrations are probably increasing.

Surface mapping identified sulphide-rich waste rock placed outside areas designated for this type of rock. Field leach tests showed that any rock mixture can be acidic. Sulphide pockets in the Faro waste rock may be present at scales up to 10 of metres. During mapping, three warm air vents were found in the Faro site waste rock.

Test pits and trenches documented the degree of local mixing of waste rock and evaluated the current weathering condition in near-surface materials. Only a few test pits in the Faro area encountered pockets of sulphide rock that were not apparent on surface. In the Grum area, sulphide rock was found in several test pits outside the designated sulphide area and in the uppermost lift of the waste rock dump and few samples had low pH. At Vangorda Pit, test pits indicated that several materials had low pH. A few test pits along the Vangorda Plateau Haul Road identified sulphide rock mixed in with the non-acid generating rock fill. This indicated that rock used for road construction may be a source of acidity and metal leaching.

Sulphide waste rock was confirmed at the location of sulphide rock cells in the Intermediate Dump (Faro) and Grum Dump by drilling. In addition, sulphide waste rock was also encountered in the Intermediate Dump outside the area designed for sulphide waste rock.

The laboratory testing program is based on the information gaps identified by the review and the needs for eventual revision of the site wide water quality predictions and assessment of remedial measures. It is likely that the static testing will be completed by early to mid-January. Kinetic testing, which will follow the static testing, will continue well into 2003."

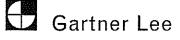


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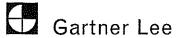
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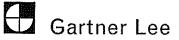


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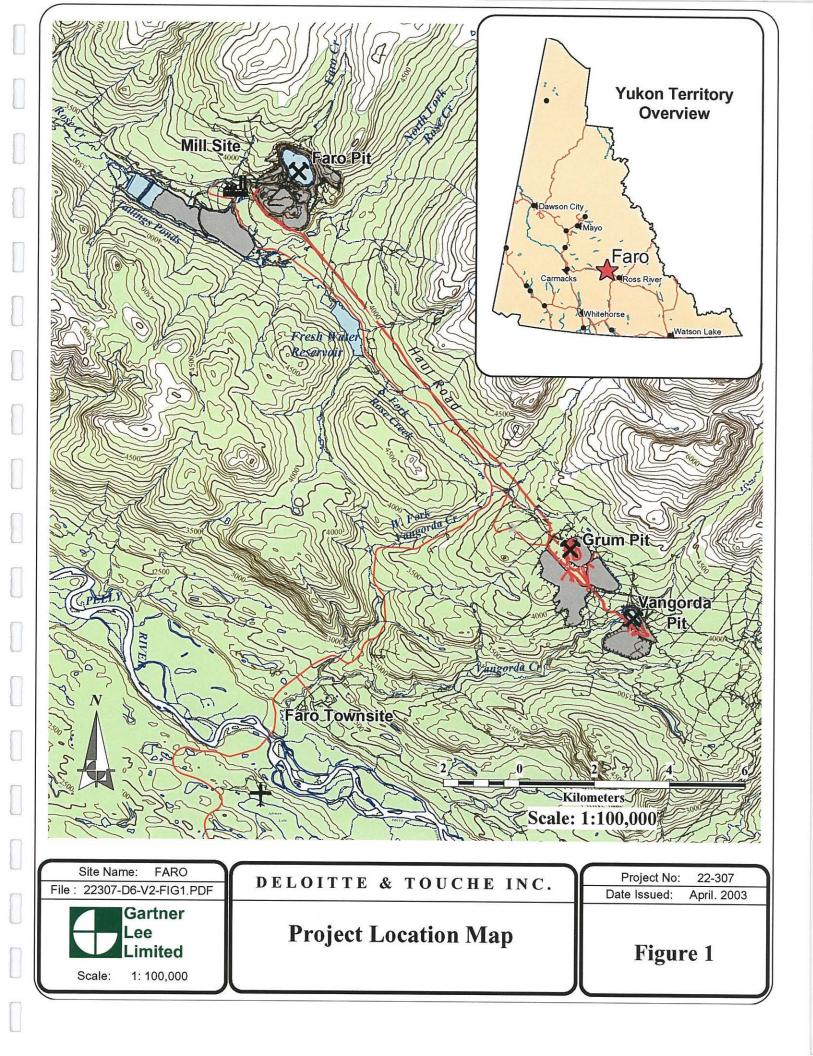
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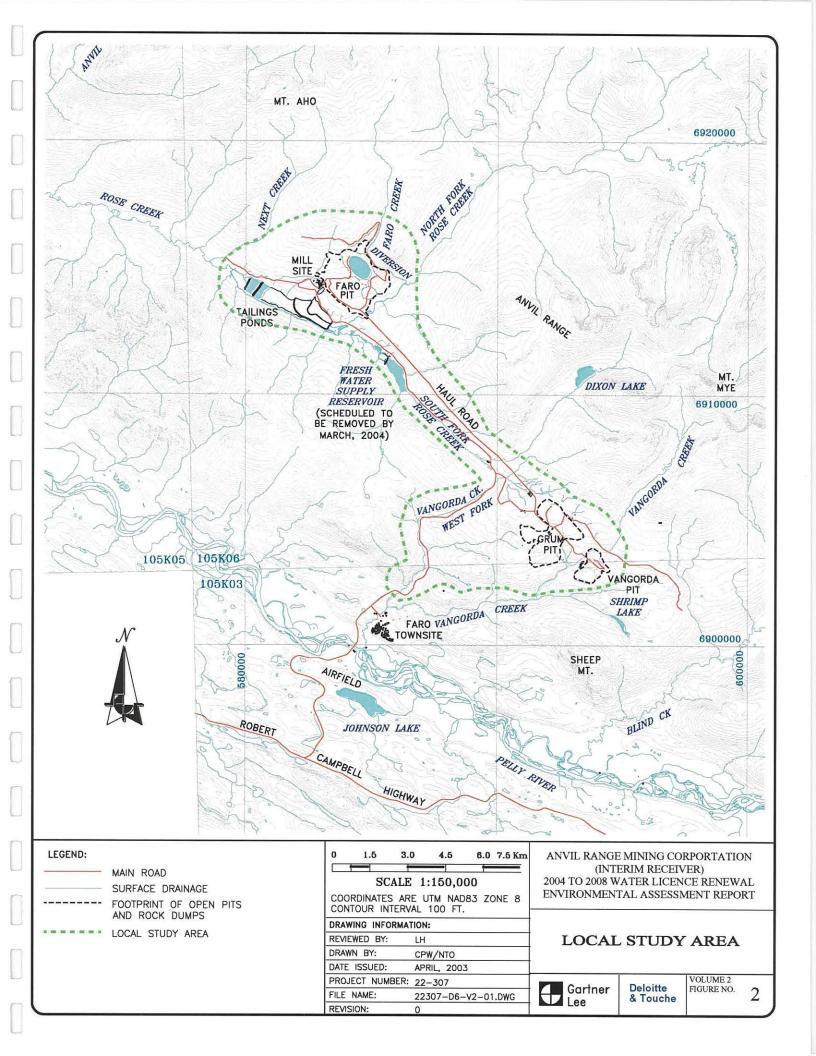




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Figures





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<u>SITE</u>	WATER	SEDIMENT	BENTHIC INVERTEBRATES
R1	\checkmark		\checkmark
R2/X14	\checkmark	\checkmark	\checkmark
R3	\checkmark		\checkmark
R4	\checkmark	\checkmark	\checkmark
R5	\checkmark		
R6	\checkmark	\checkmark	\checkmark
R7	\checkmark		\checkmark
V1	\checkmark	\checkmark	\checkmark
V2	\checkmark		
V4	\checkmark		
V5	\checkmark	\checkmark	\checkmark
V6A	\checkmark		
V8	\checkmark	\checkmark	\checkmark
V27	\checkmark	\checkmark	\checkmark
V25BSP	N		
VGMAIN	V		
W10	\checkmark		
FC	N,		
X2	V	,	
X5	V		
X13	V	-	
4394		V	
4395		V	
4396		V	
4397		\checkmark	
4398			
4399		\checkmark	

LEGEND:

MAIN ROAD

ROSE CREEK WATERSHED

COORDINATES ARE UTM NAD83 ZONE 8 CONTOUR INTERVAL 100 FT.

VANGORDA WATERSHED

LOCAL STUDY AREA

SURFACE DRAINAGE

----- FOOTPRINT OF OPEN PITS AND ROCK DUMPS

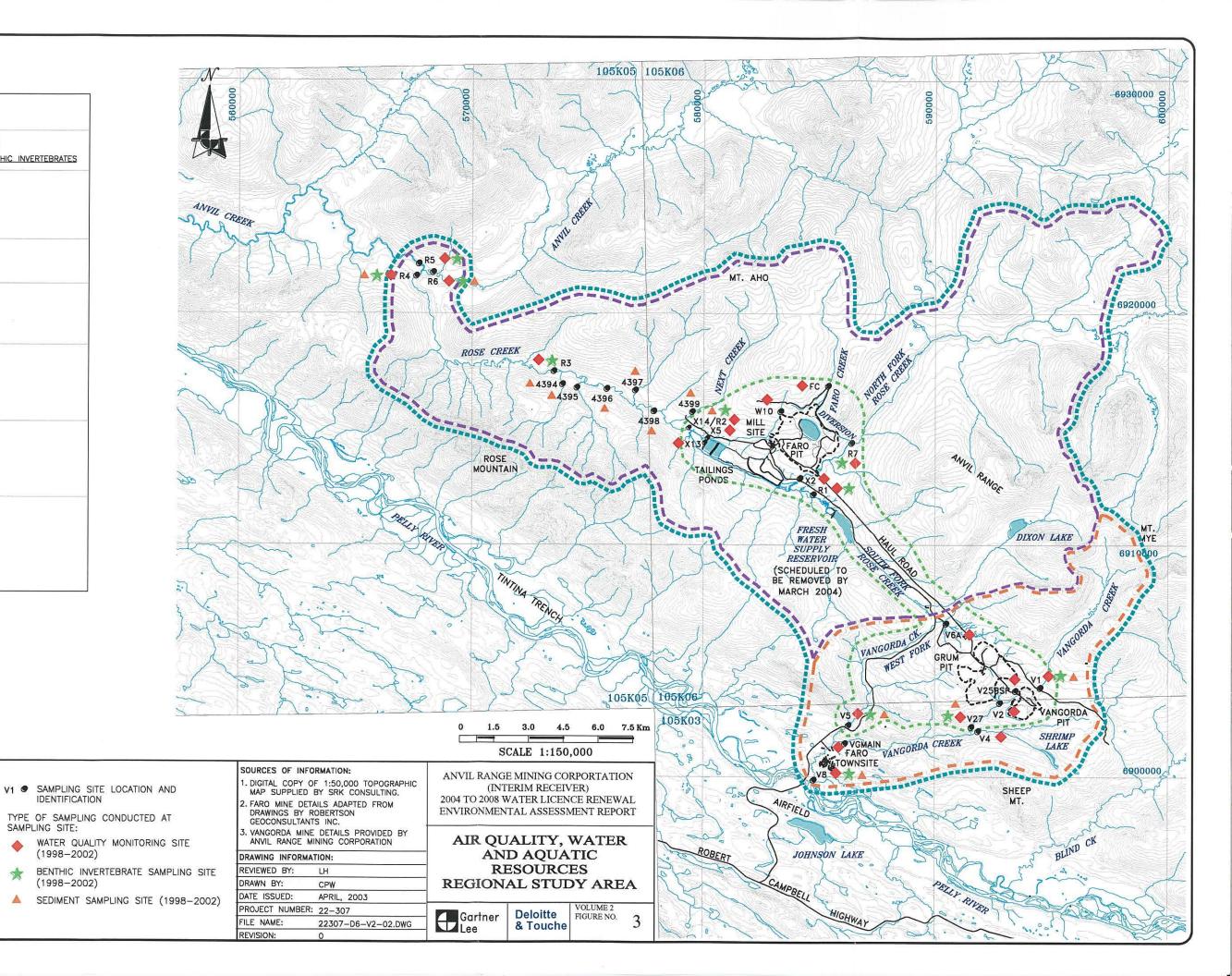
AIR QUALITY, WATER AND AQUATIC

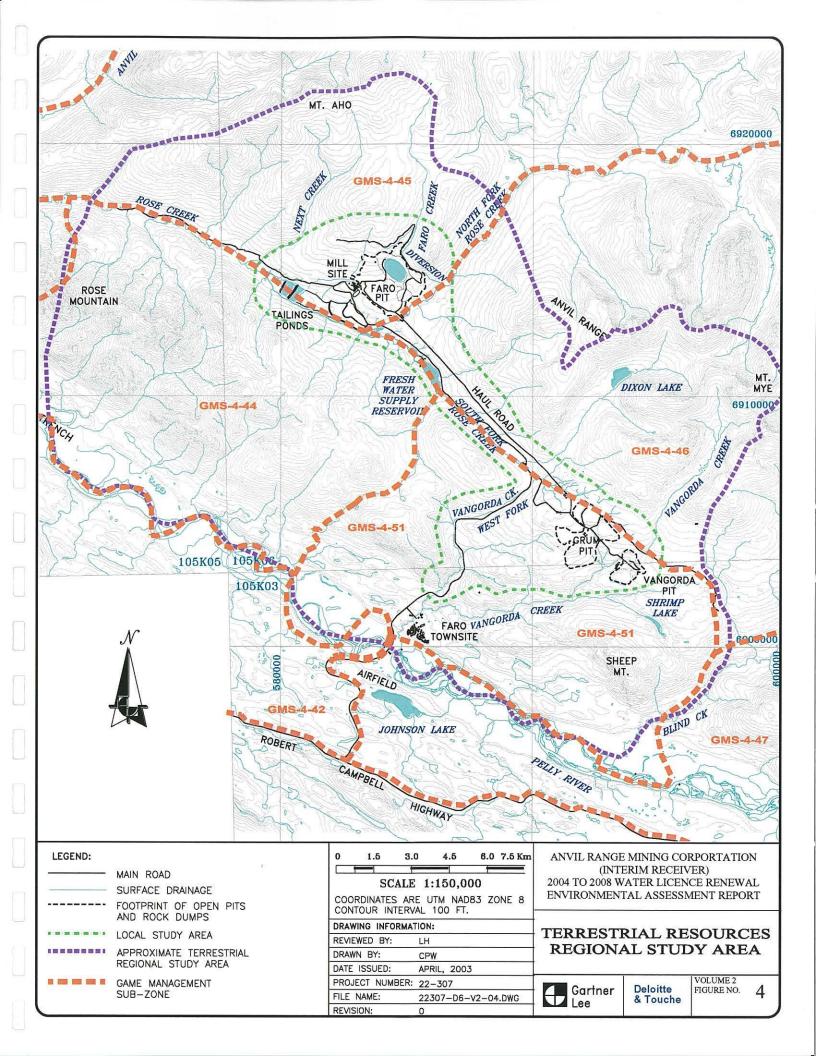
RESOURCES REGIONAL STUDY AREA

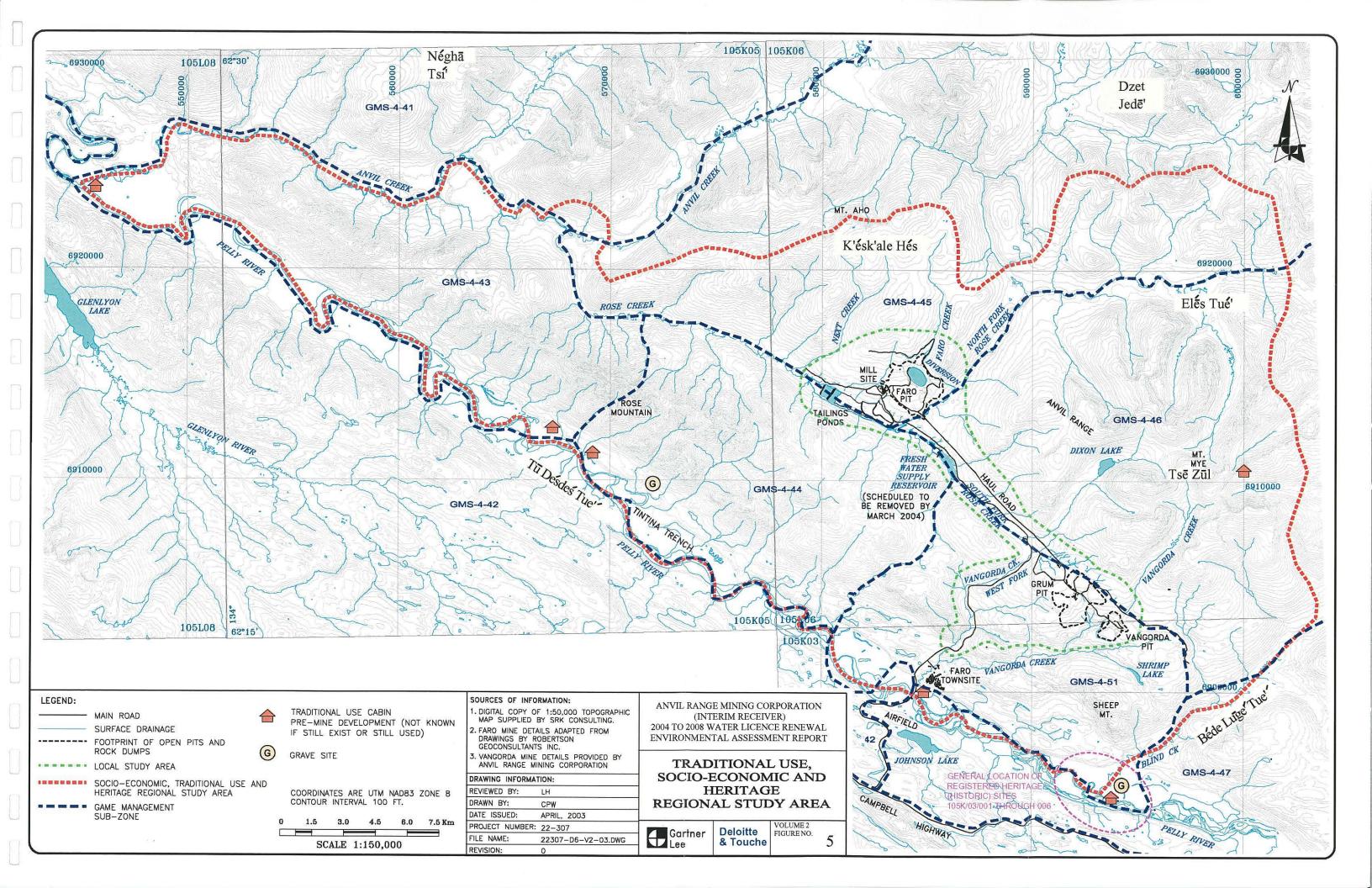
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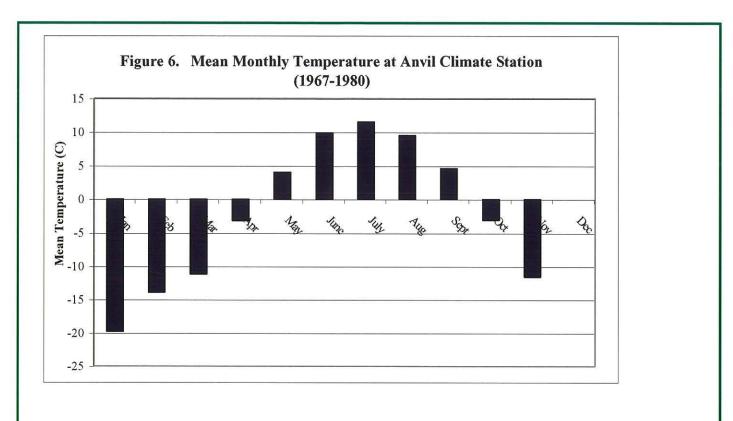
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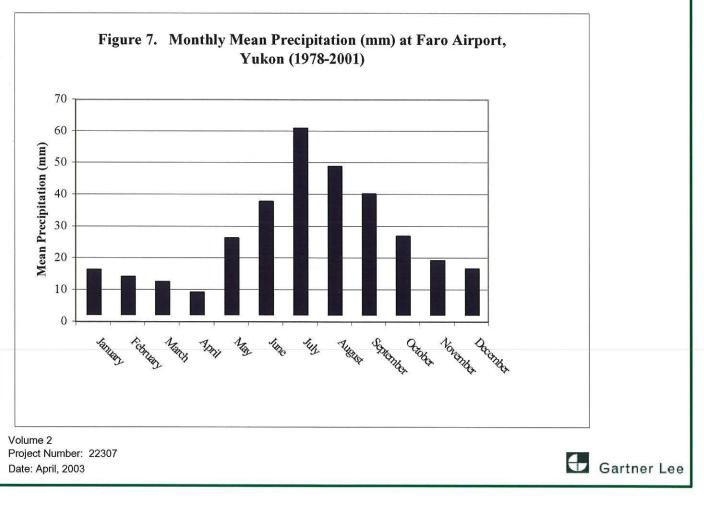
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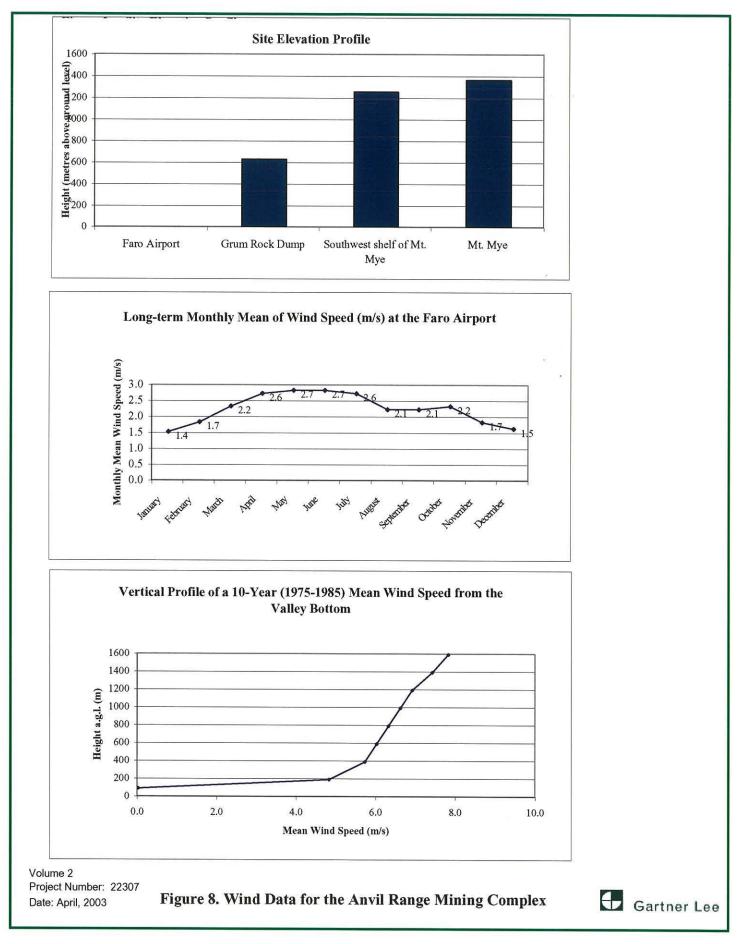




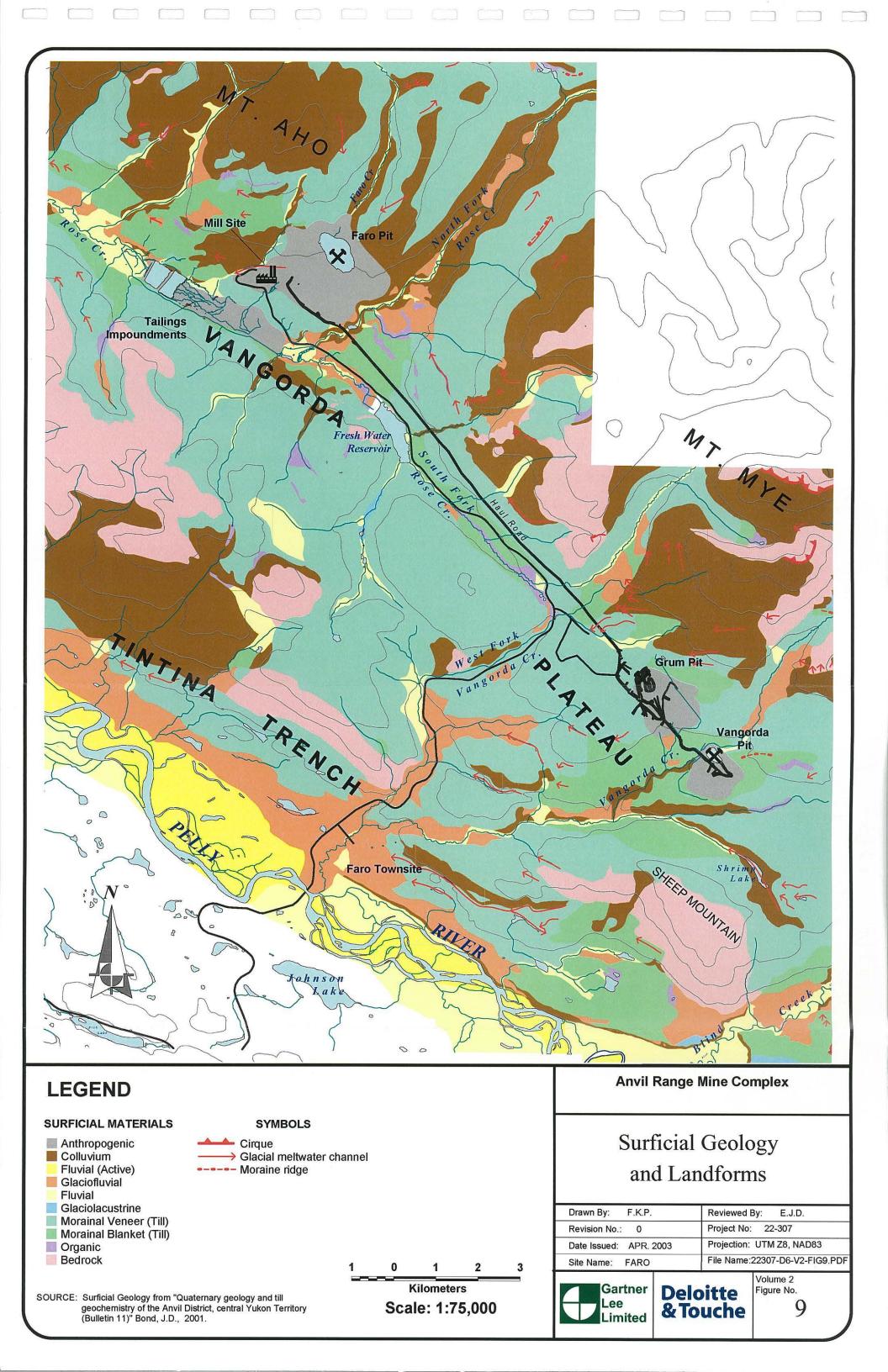


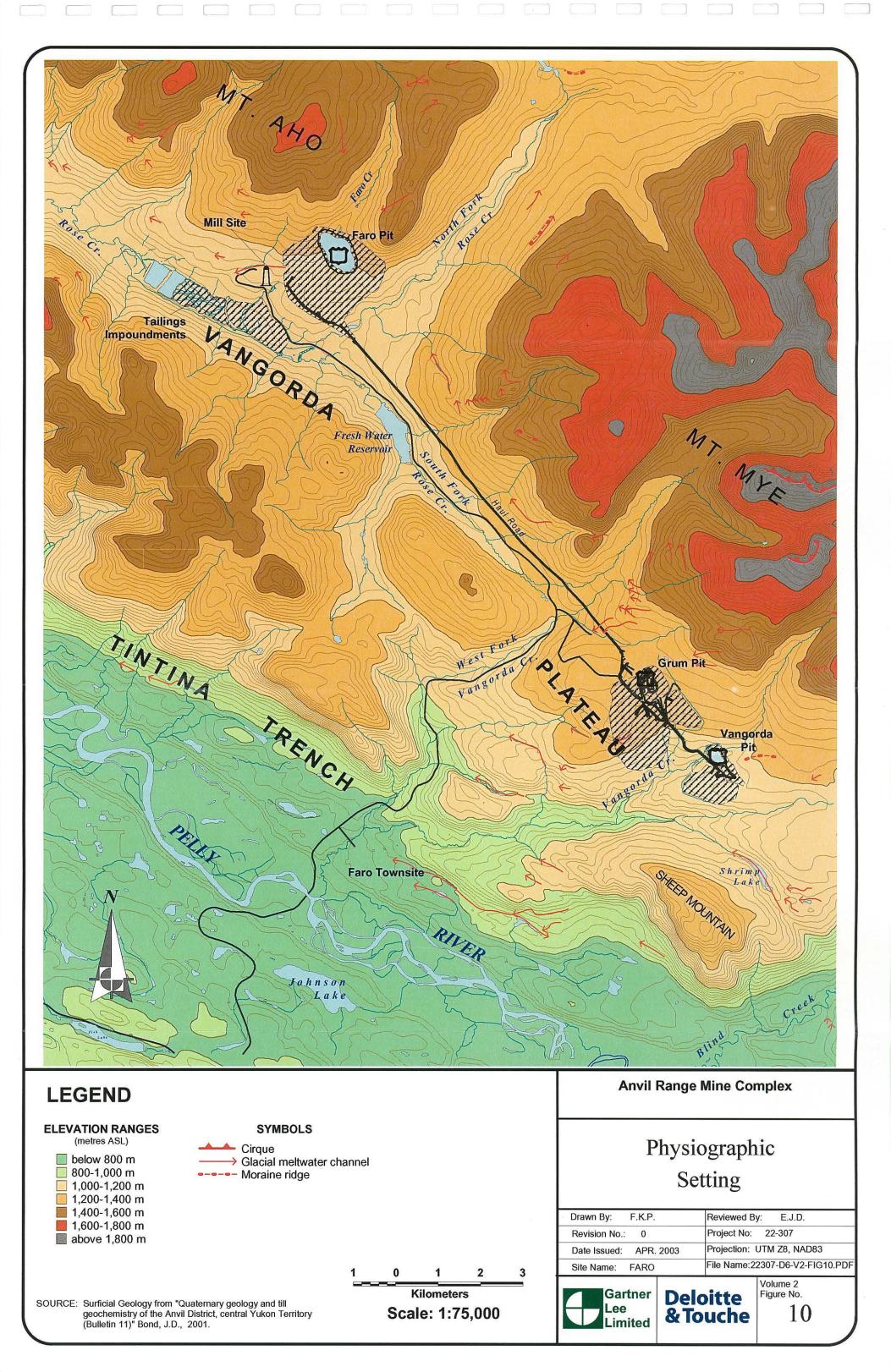


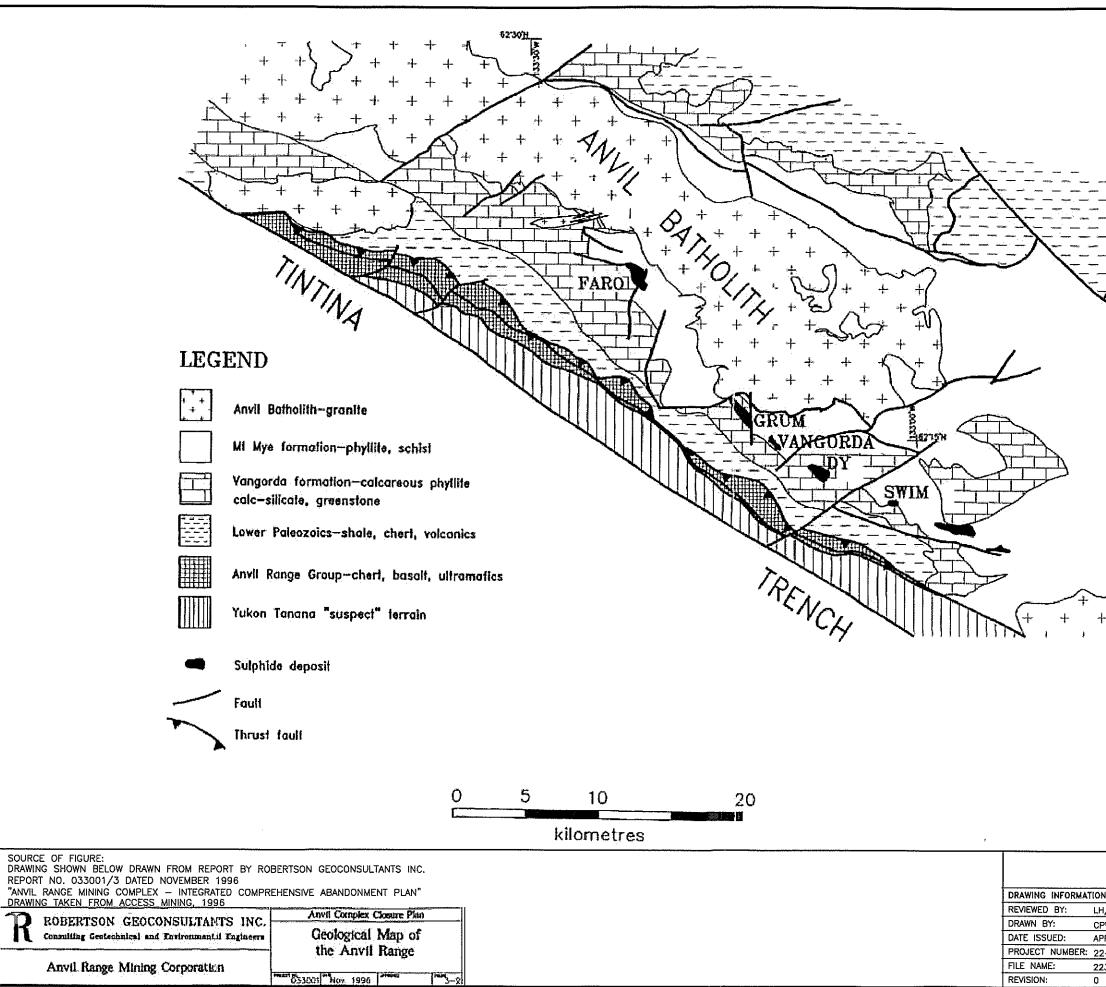
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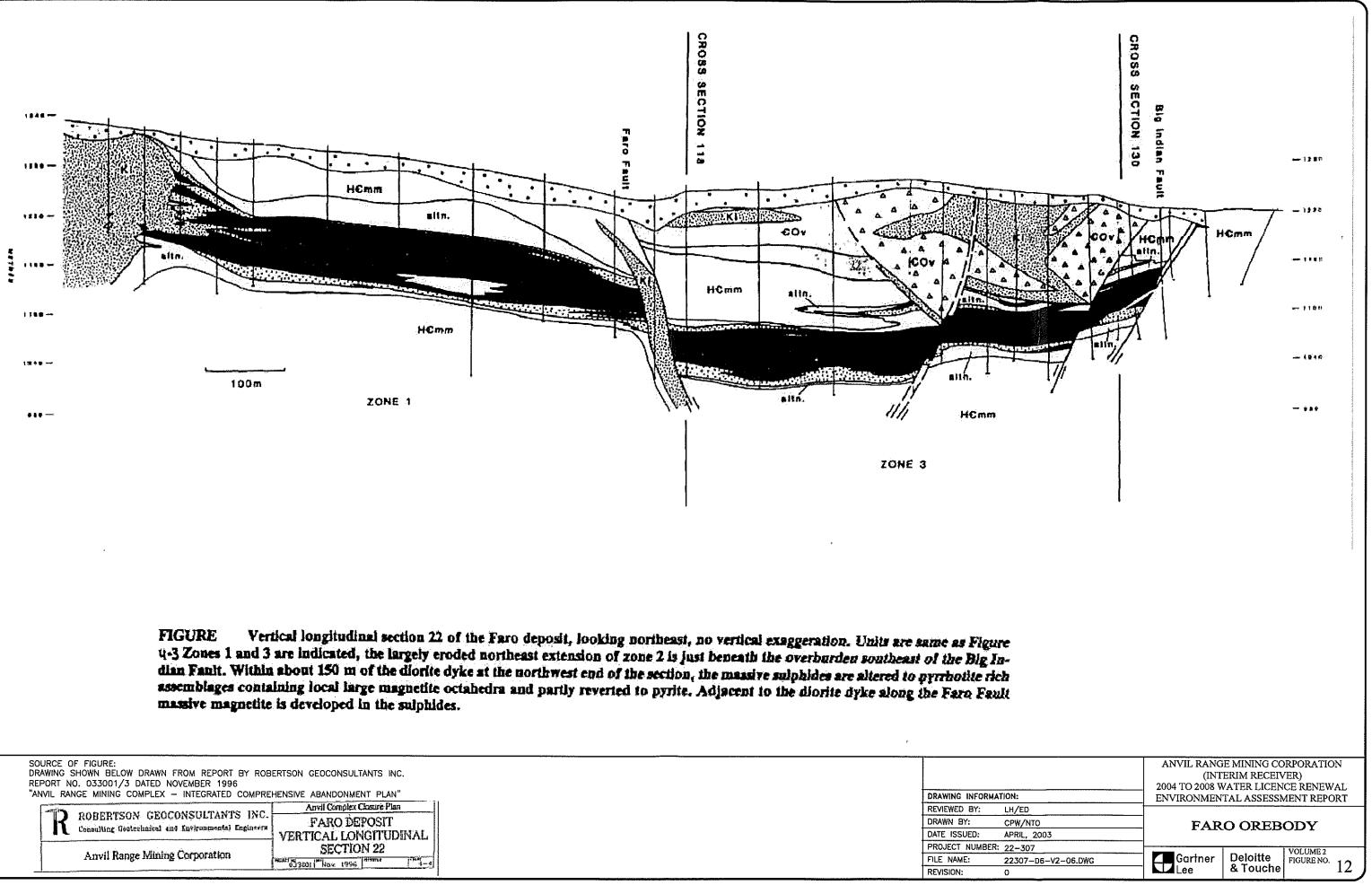
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-307 307D6V205.DWG	Gartner	Deloitte & Touche	VOLUME 2 FIGURE NO.	11



SOURCE OF FIGURE: DRAWING SHOWN BELOW DRAWN FROM REPORT BY ROBERTSON GEOCONSULTANTS INC. REPORT NO. 033001/3 DATED NOVEMBER 1996	
"ANVIL RANGE MINING COMPLEX – INTEGRATED COMPREHENSIVE ABANDONMENT PLAN"	DRAWING INFORMATION:
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CECTION 00	PROJECT NUMBER: 22-30
Anvil Range Mining Corporation	FILE NAME: 22307-
	REVISION: 0

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-1154 Diversion TOOKF Rull SOURCE OF FIGURE: DRAWING SHOWN BELOW DRAWN FROM REPORT BY STEFFEN, ROBERTSON KIRSTEN (CANADA) INC. REPORT NO. 60647 DATED MAY 1992 anosto i DRAWING INFORMATION: "CONSTRUCTION REPORT VANGORDA CREEK DIVERSION REALIGNMENT VANGORDA PLATEAU DEVELOPMENT" All Mais St REVIEWED BY: LH/ED Valative sido DRAWN BY: maind kan il 🤋 DATE ISSUED: entonia: Meconi (Fal PROJECT NUMBER: 22-307 Se 5 - 73 - <u>\</u> \ \ \ Spiamitis 🕂 —

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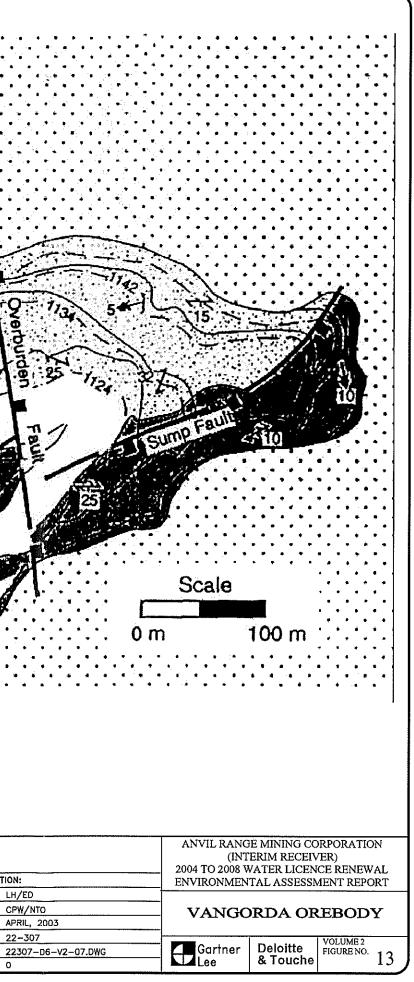
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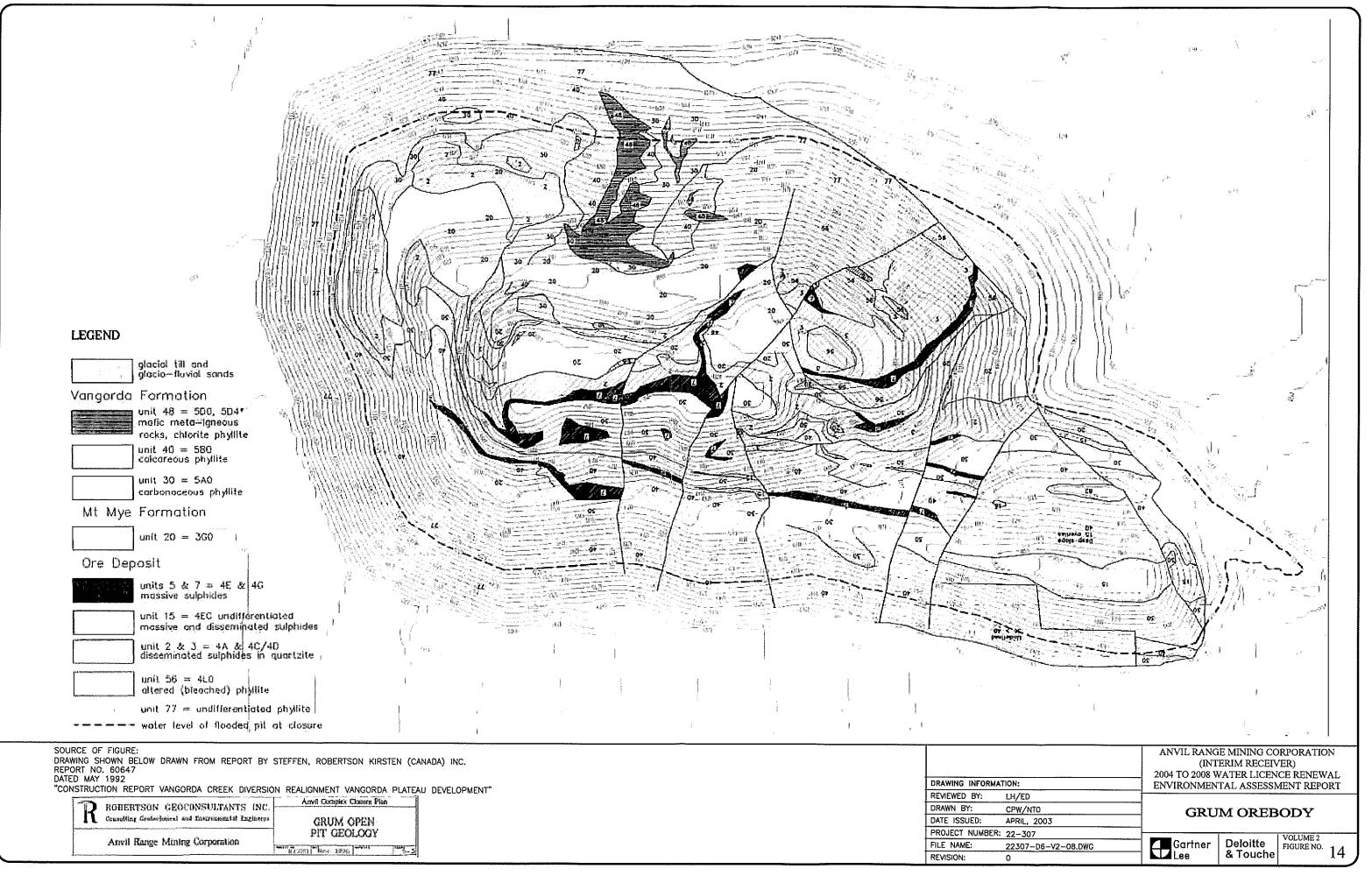
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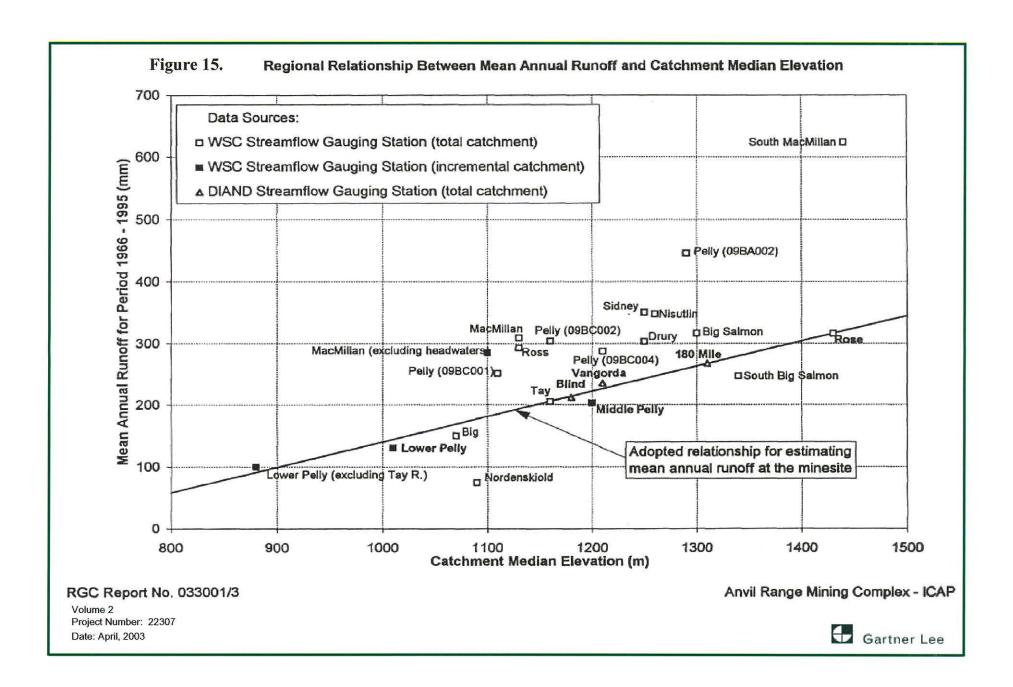
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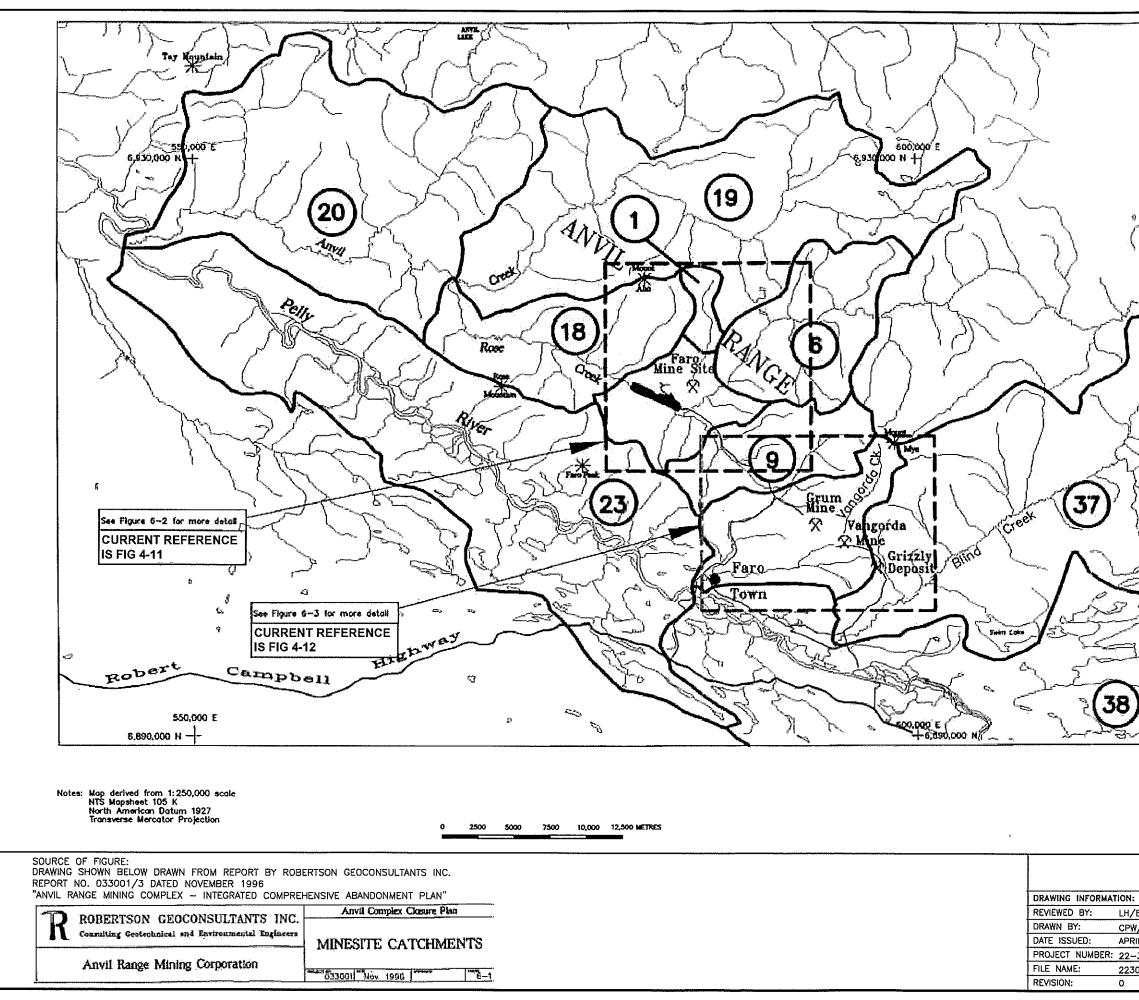
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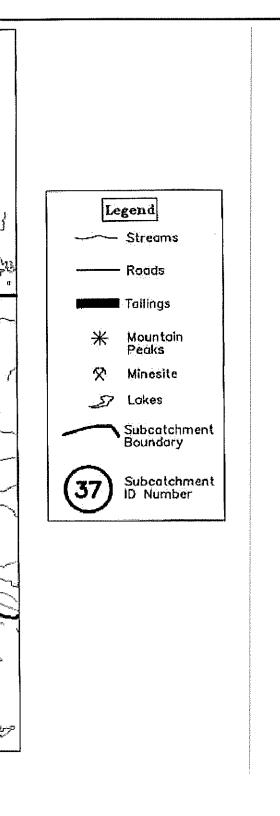
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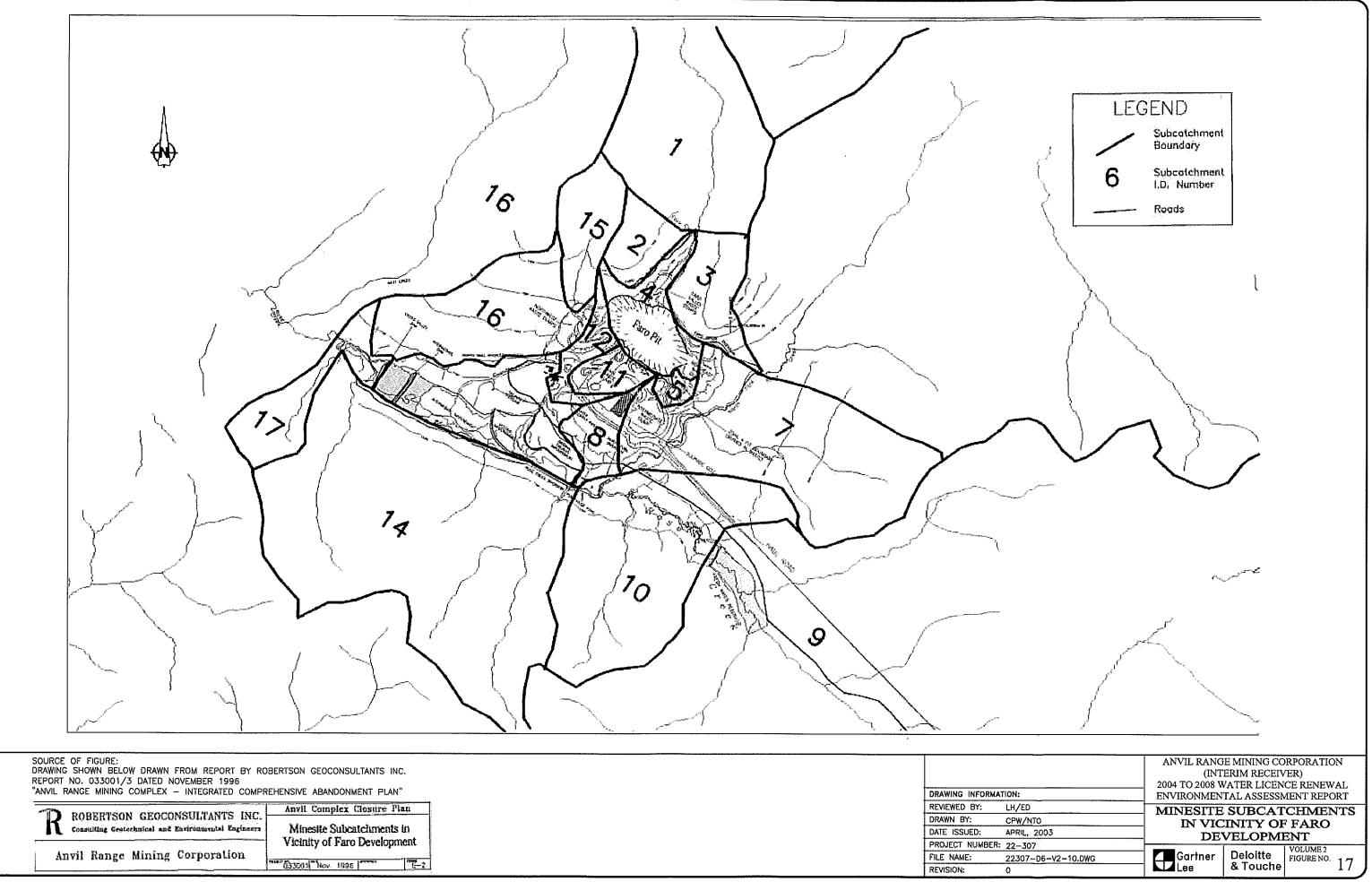
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| 2307-06-V2-09.DWG | Gartner                              | Deloitte<br>& Touche            | FIGURE NO. 16 |  |  |  |  |  |  |  |  |

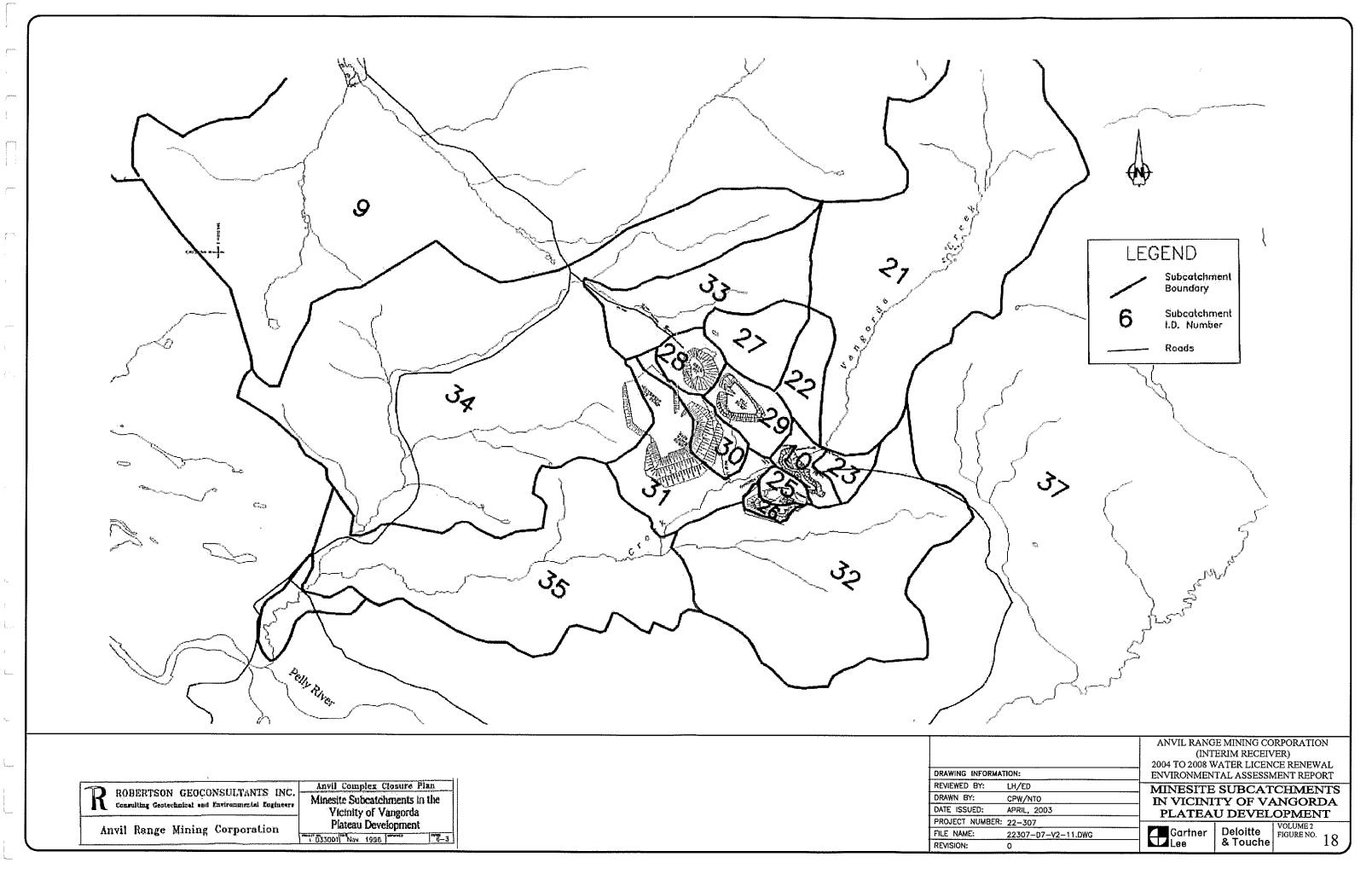


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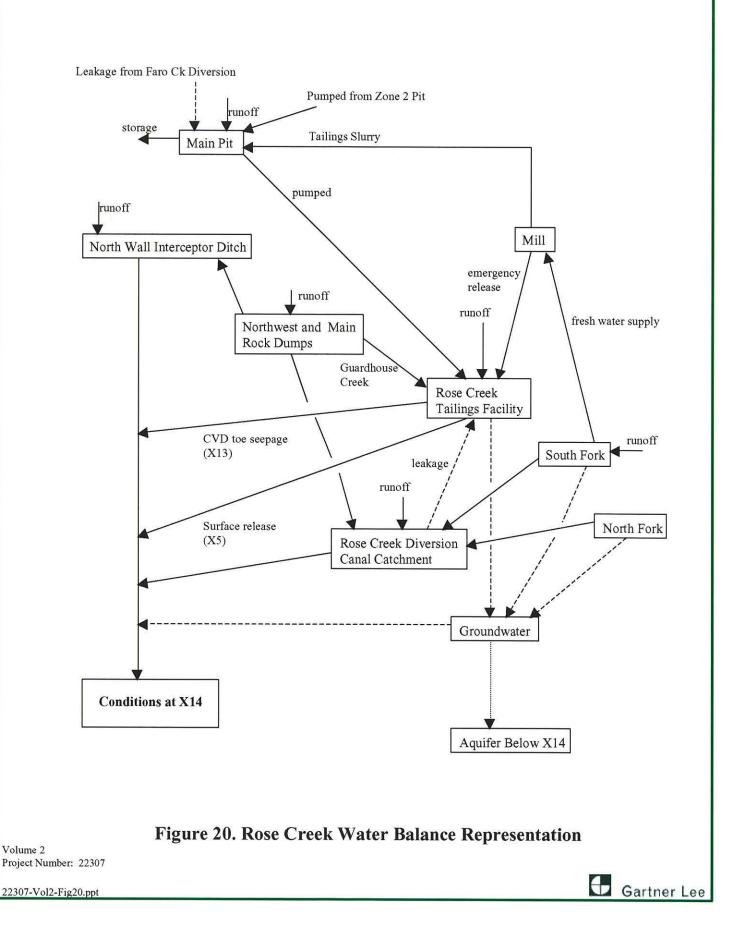
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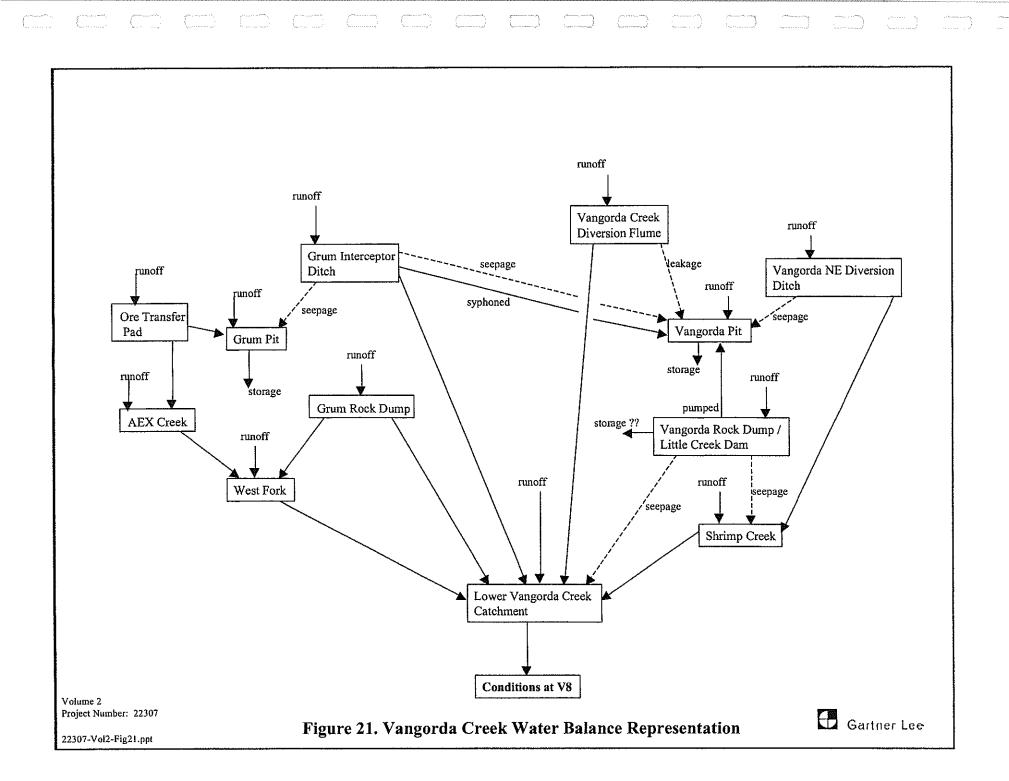
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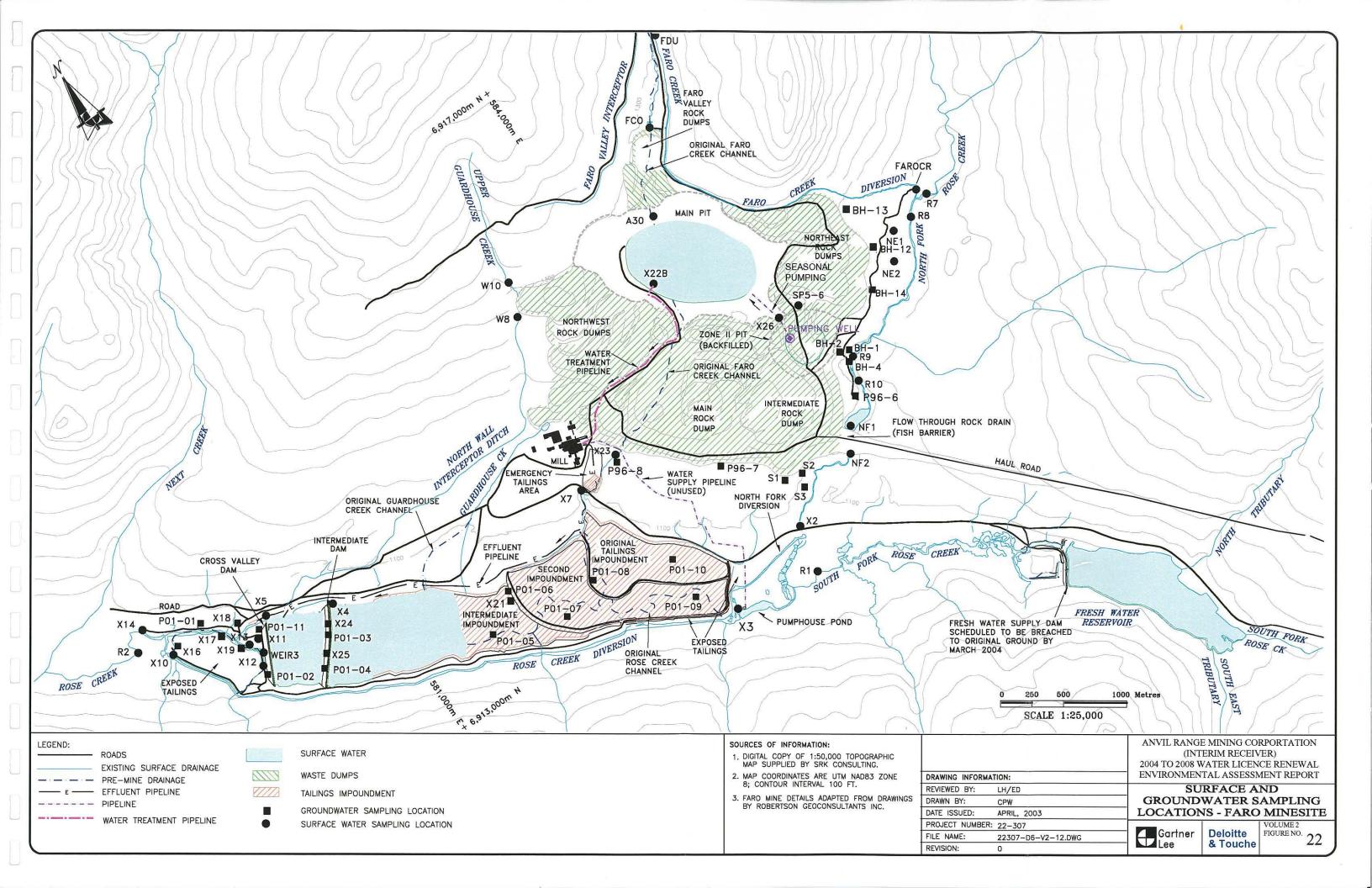


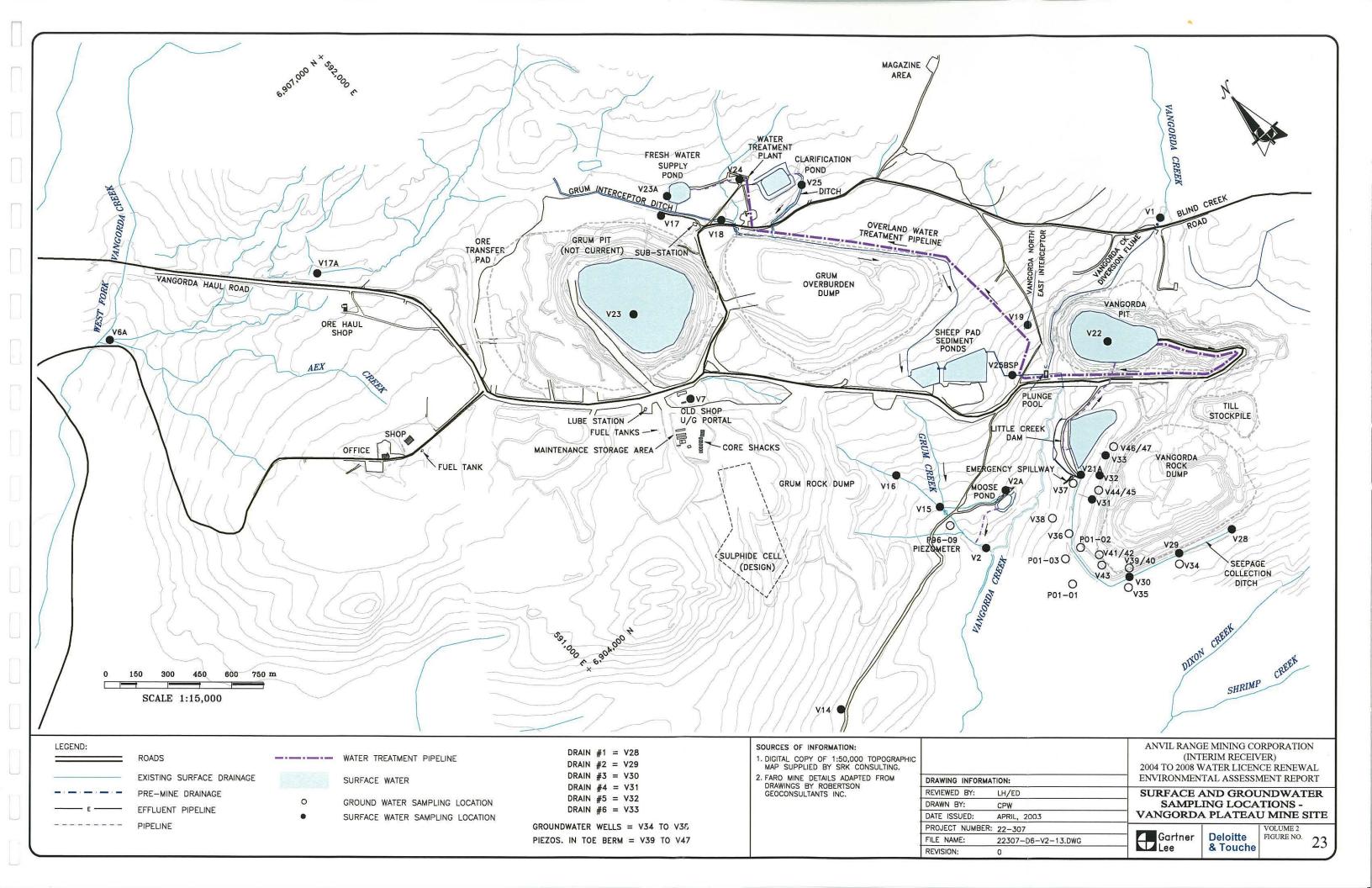
runoff North Fork above R7 runoff Faro Creek Diversion Leakage to runoff Main Pit runoff Remainder of North Fork Cachment Northeast Rock Dumps runoff seepage Zone II Pit and Rock Dumps Pumped to Main Pit runoff Intermediate Rock Dump **Conditions at X2** Figure 19. North Fork Rose Creek Water Balance Representation Volume 2 🛃 Gartner Lee Project Number: 22307

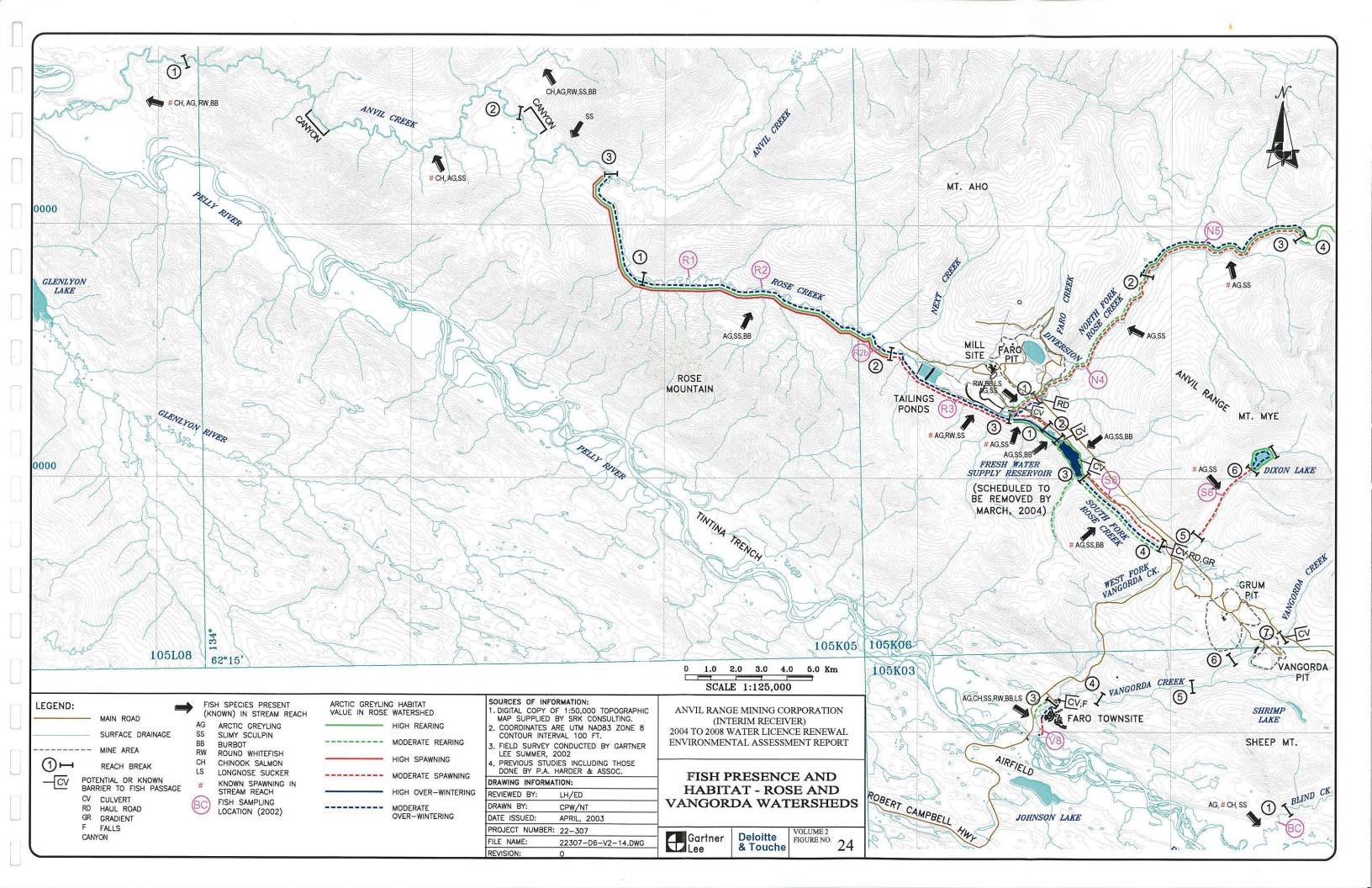
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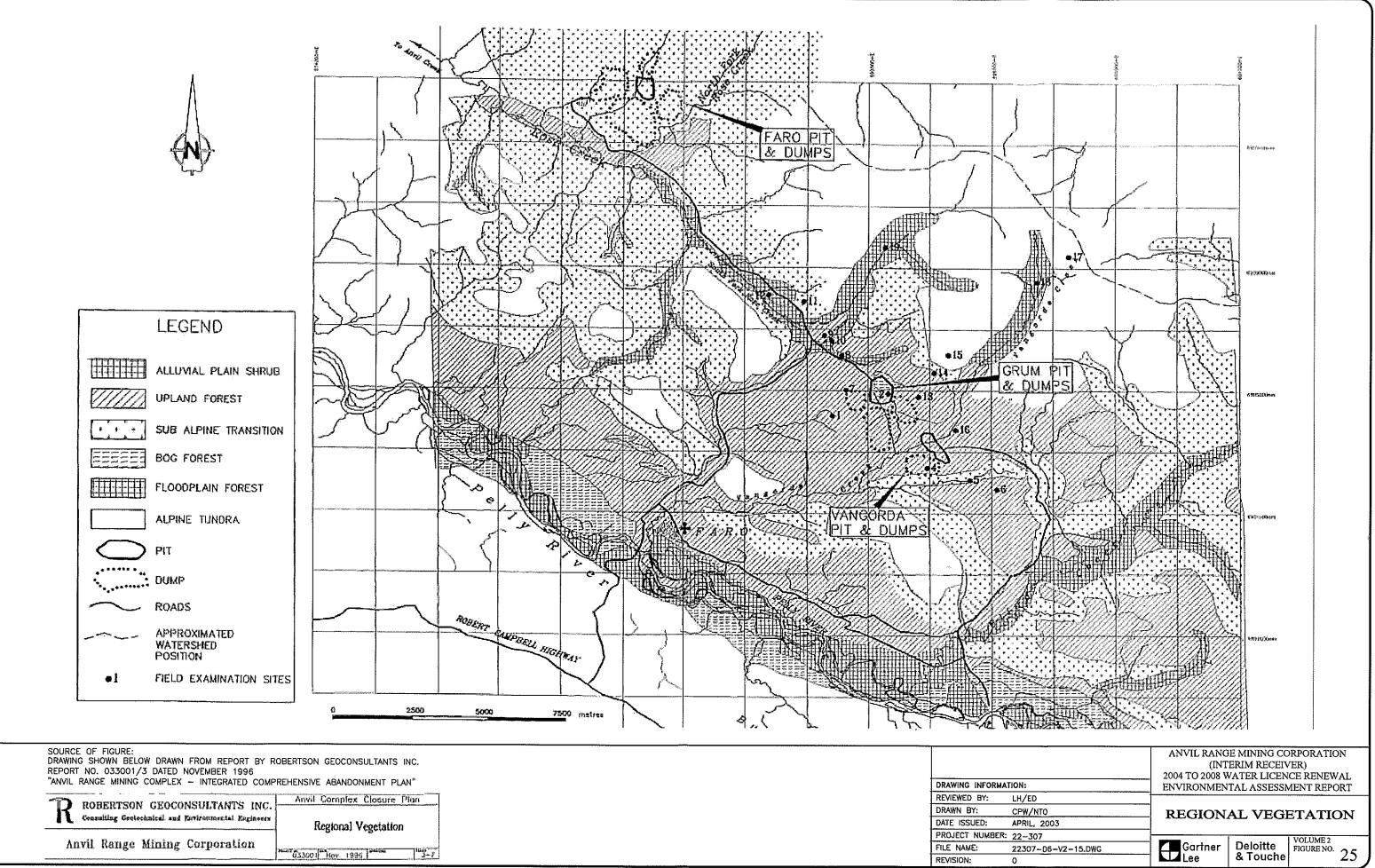


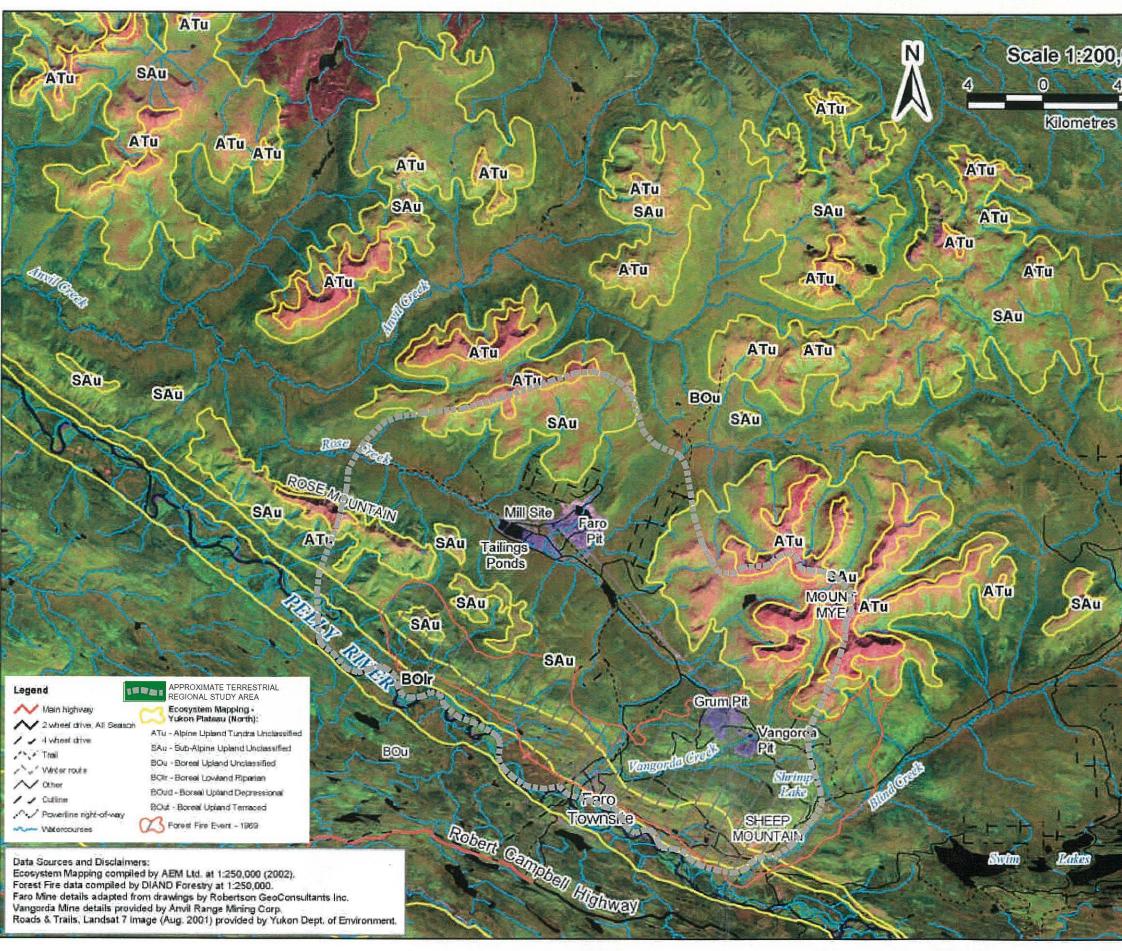








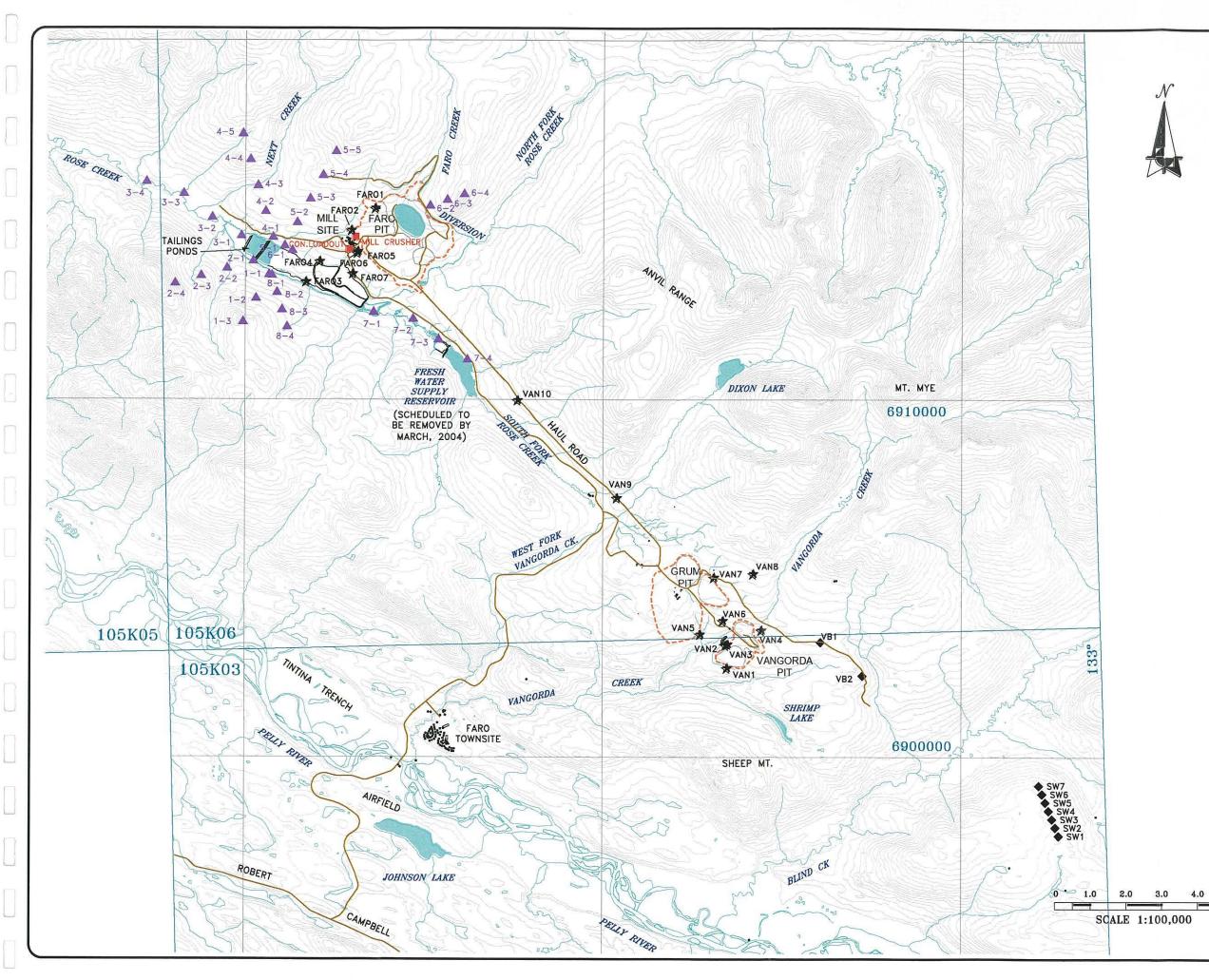




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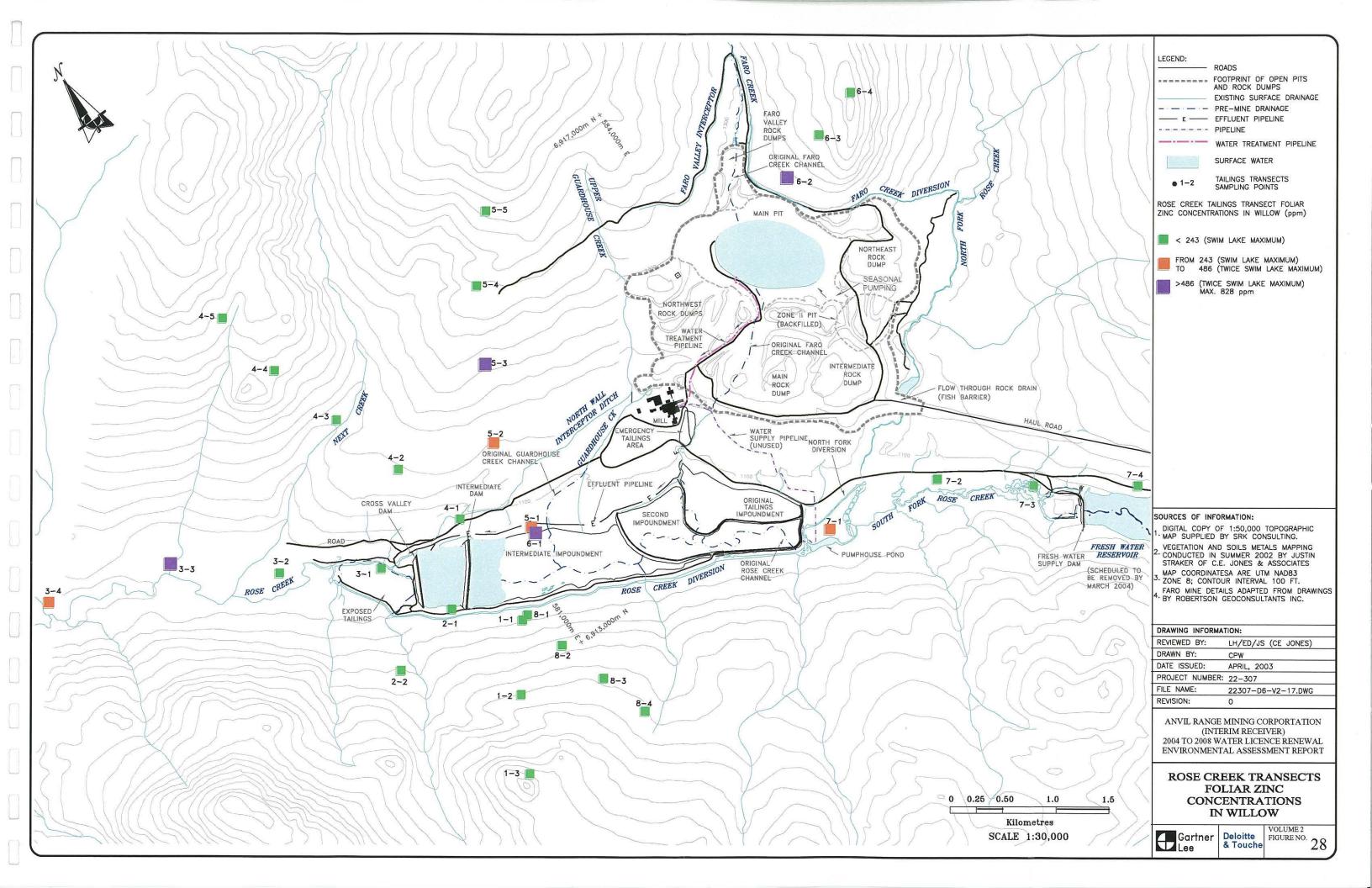
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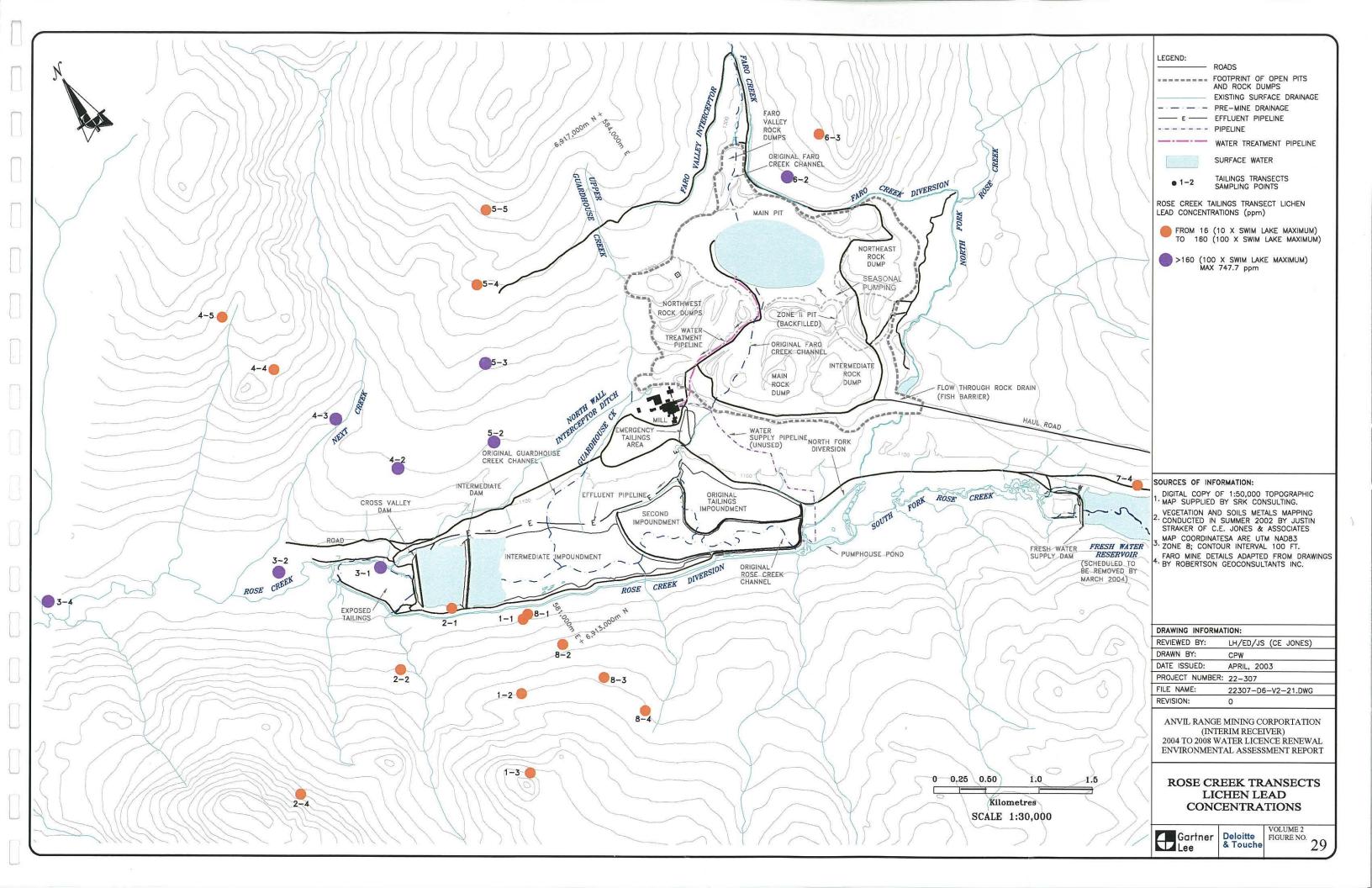
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|                      | Gartner                                                         | Deloitte<br>& Touche                                          | FIGURE NO. 2                                     | 6 |

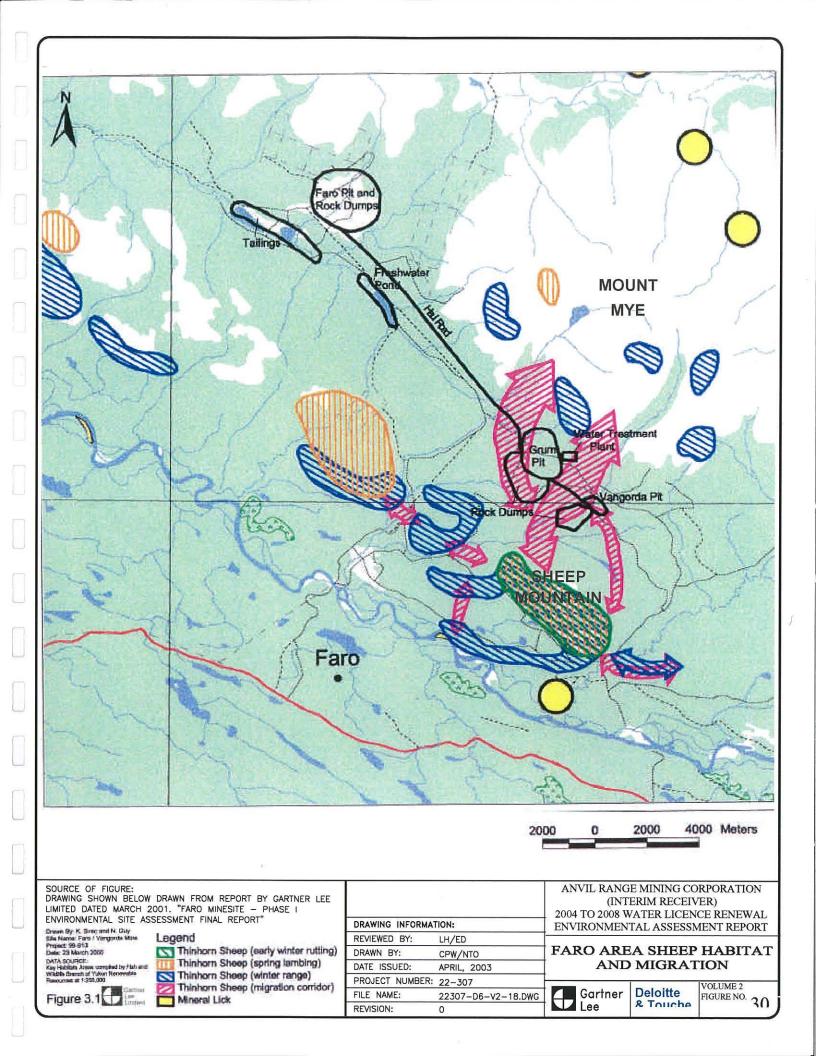


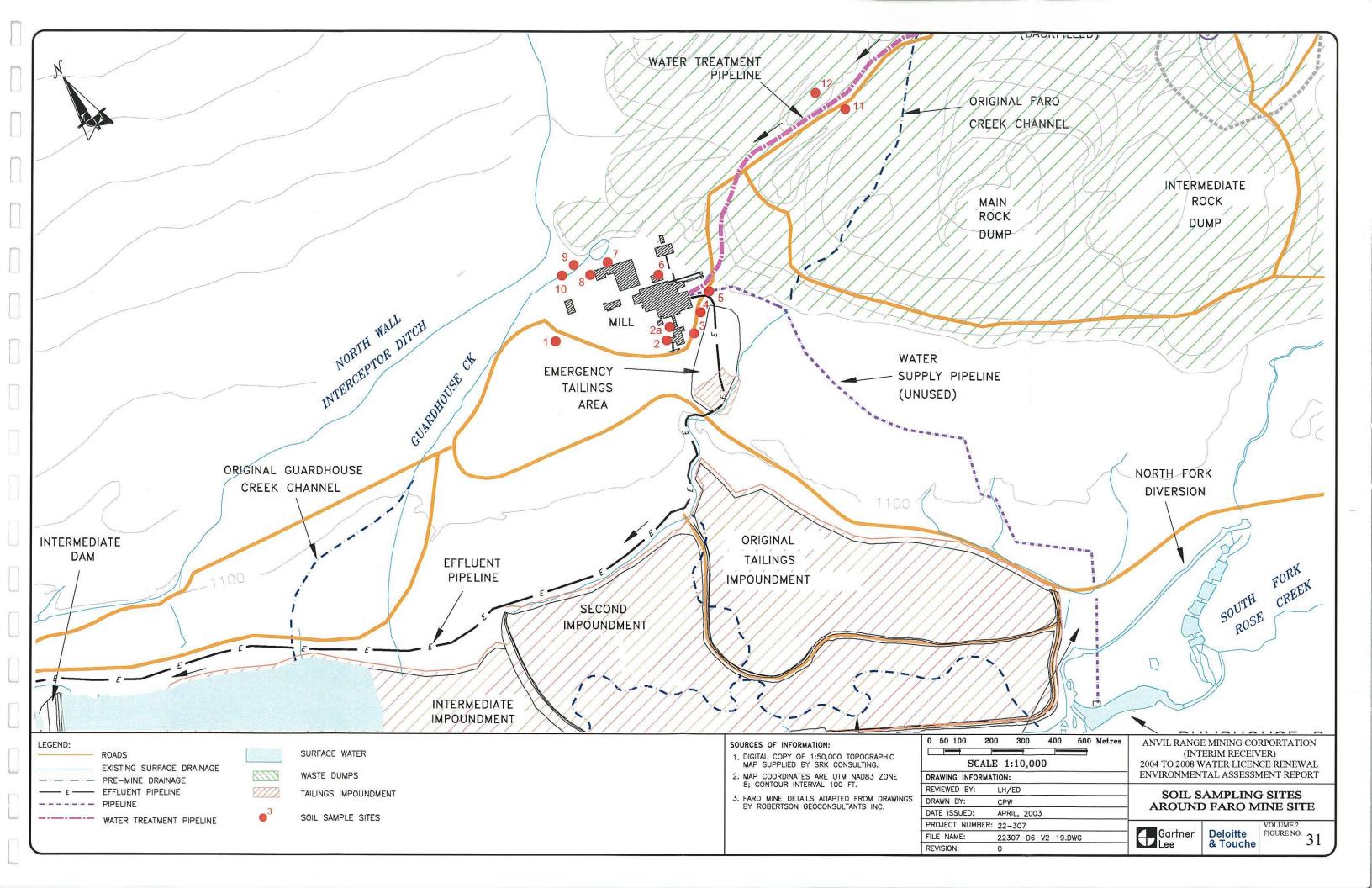


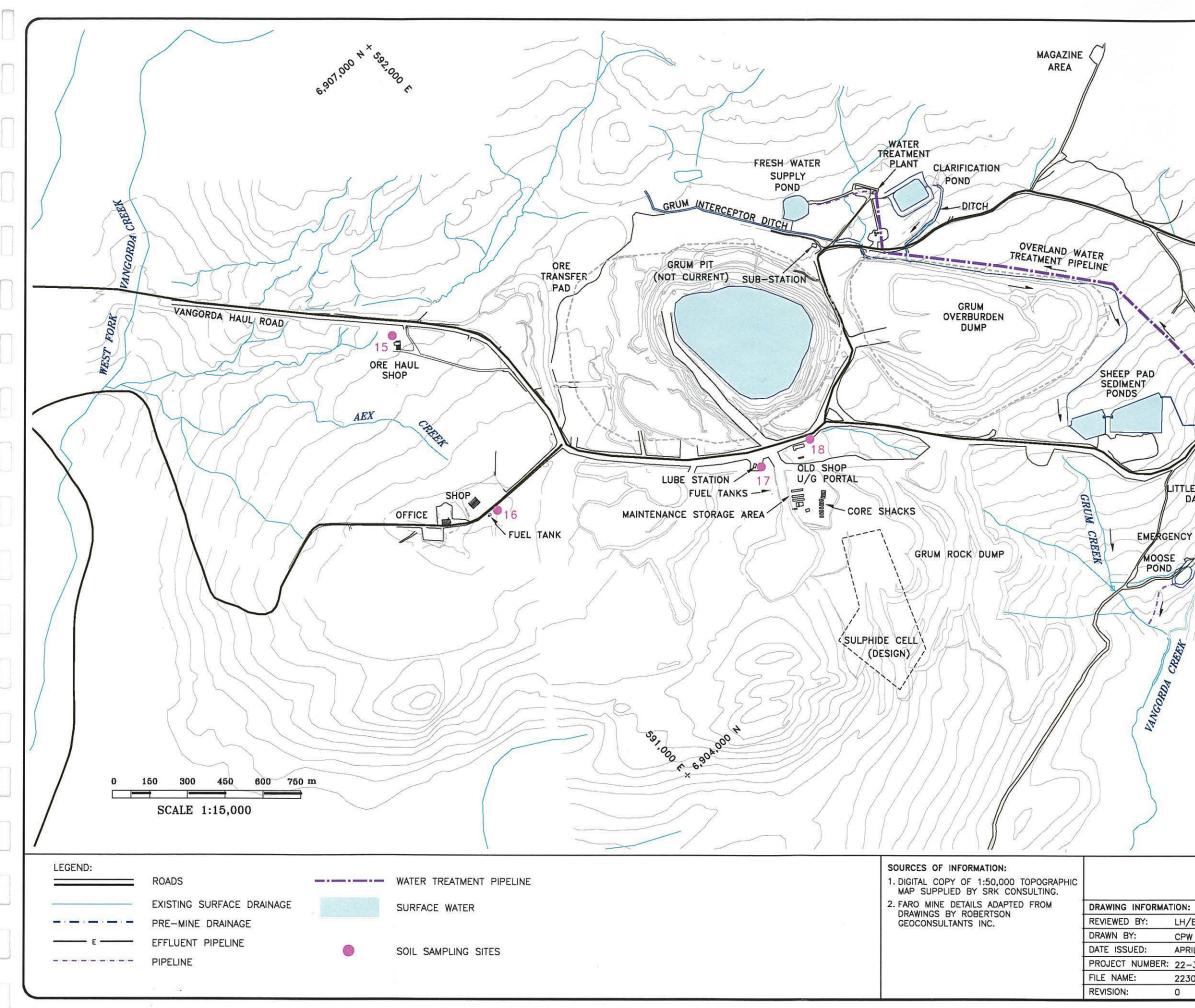
|        | *                                                                                         | MAIN ROAD<br>SURFACE DRAIN<br>MINE AREA<br>BACKGROUND S<br>POINT<br>POTENTIAL MINE<br>SAMPLING POIN<br>TAILINGS TRANS<br>SAMPLING POIN<br>REFERENCE PO | SAMPLING<br>E-AFFECTED<br>ITS<br>SECTS<br>ITS          |
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| 5.0 Km | SAMP<br>ELEMEN                                                                            | LING SITI                                                                                                                                              | LYSES OF                                               |
|        | Gartner<br>Lee                                                                            | Deloitte<br>& Touche                                                                                                                                   | FIGURE NO.                                             |











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| IL, 2003<br>307<br>07-D6-V2-20.DWG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Gartner                  | Deloitte<br>& Touche       | VOLUME 2<br>FIGURE NO. 32 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |                            |                           |

# Appendices

## Appendix A

## **Guideline Conformity Table**

|           | DIAND Information Guidelines                                          |               | E           | nvironmental Assessment Report                       |
|-----------|-----------------------------------------------------------------------|---------------|-------------|------------------------------------------------------|
| Section   | Topic to Address                                                      | Volume        | Section     | Heading                                              |
| 1.2       | Scope of the Project                                                  | 1/2/3         | 1.1         | Introduction to the Environmental Assessment Repor   |
| 1.3       | Traditional Knowledge                                                 | 2             | 2.11        | Valued Ecosystem and Cultural Components             |
| 2.1.1     | Project Overview                                                      |               |             | Traditional Use                                      |
| 2.1.2     |                                                                       | 1             | 2.1.1       | Project Overview                                     |
|           | Project Purpose and Need                                              |               | 2.1.2       | Project Purpose and Need                             |
| 2.1.3     | Timing Considerations                                                 | 1             | 2.1.3       | Timing Considerations                                |
| 2.1.4     | Project Proponent                                                     | 1             | 2.1.4       | Project Management                                   |
| 2.1.5     | Regulatory History                                                    | 1             | 2.1.6       | Regulatory History                                   |
| 2.2.1.1   | Project Background                                                    | 1             | 2.1         | Project Summary                                      |
| 2.2.1.2   | Project Location                                                      | 1             | 3/4         | Description of Facilities - Faro and Vangorda Mine S |
| 2.2.1.3   | Overall Project Facilities                                            | 1             | 3/4         | Description of Facilities - Faro and Vangorda Mine S |
| 2.2.2.1   | Care and Maintenance Plan                                             | 1             | 5           | Description of Care and Maintenance Activities       |
| 2.2.2.2   | Proposed new construction/activities                                  | $\frac{1}{1}$ | 6           | Proposed New Activities                              |
| 2.2.2.3   | Adaptive Management Program                                           | 1             | 7           | Adaptive Management Plan                             |
| .2.2.4    | Proposed Water Licence Amendments                                     | 1             | 9           | Proposed Amendments to the Water Licence             |
| .2.2.5    | Proposed Studies                                                      | 1             | 10          | Proposed Studies                                     |
| .2.3      | Accidents and Malfunctions                                            |               | 8           | Accidents and Malfunctions                           |
| .2.4      | Project Schedule                                                      | 1             | 11          |                                                      |
|           | Environmental Monitoring and Protection Plans                         |               |             | Project Schedule                                     |
|           | Environmental Setting                                                 | 1             | 12          | Environmental Monitoring and Protection              |
|           | Climate                                                               | 2             | 2           | Existing Environment                                 |
| .3.1.1    |                                                                       | 2             | 2.1         | Meteorology                                          |
| .3.1.2    | Terrain                                                               | 2             | 2.2         | Terrain                                              |
| .3.1.3    | Regional Geology/Geochemistry                                         | 2             | 2.3         | Geology                                              |
| .3.1.4    | Geological Hazards and Seismicity                                     | 2             | 2.4         | Geological Hazards and Seismicity                    |
| .3.1.5    | Water Resources                                                       | 2             | 2.5         | Water Resources                                      |
| .3.1.5.1  | Hydrology                                                             | 2             | 2.5.2       | Hydrology                                            |
| .3.1.5.2  | Water Quality                                                         | 2             | 2.5.4/2.5.5 | Surface Water Quality / Groundwater Quality          |
| .3.1.5.3  | Hydrogeology                                                          | 2             | 2.5.3       | Hydrogeology                                         |
| 2.3.1.6   | Aquatic Resources                                                     | 2             | 2.6         | Aquatic Resources                                    |
| 2.3.1.6.1 | Fish Resources                                                        | 2             | 2.6.4       | Fish                                                 |
| .3.1.6.2  | Benthic Invertebrates                                                 | 2             | 2.6.3       | Benthic Invertebrates                                |
| .3.1.6.3  | Stream Sediments                                                      | 2             | 2.6.2       | Creek Sediment Quality                               |
| 2.3.1.7   | Terrestrial Resources                                                 | 2             | 2.7         | Terrestrial Resources                                |
| .3.1.7.1  | Soils                                                                 | 2             | 2.7.2       | Soils / Terrain                                      |
| .3.1.7.2  | Vegetation                                                            | 2             | 2.7.3       | Vegetation                                           |
| .3.1.7.3  | Wildlife                                                              | 2             | 2.7.4       | Wildlife                                             |
| .3.1.8    | Socio-economic and Cultural Conditions                                | 2             | 2.7.4       |                                                      |
| .3.1.9    |                                                                       |               |             | Socio-economic Conditions                            |
|           | Heritage Resources/Traditional Land Use                               | 2             | 2.9/2.10    | Traditional Use / Heritage Resources                 |
| .3.1.10   | Valued Ecosystem and Cultural Components (VECC's)                     | 2             | 2.11        | Valued Ecosystem and Cultural Components             |
| .3.2      | Mine Site Characterization                                            | 2             | 3           | Site Characterization                                |
| .3.2.1    | Geochemistry and Acid Rock Drainage                                   | 2             | 3.4         | Rock Dumps                                           |
| .3.2.2    | Site Surface Water Quality and Water Balance                          |               | 3.2         | Contaminant Loading                                  |
| .3.2.3    | Site Groundwater Quality                                              | 2             | 3.3         | Rose Creek Tailings Facility                         |
| .3.2.4    | Site Soil Quality                                                     | 2             | 3.1         | Soil Quality                                         |
| .1.2      | Scope of the Assessment                                               | 3             | 2           | Scope of the Project and Assessment                  |
| .2        | First Nations and Public Consultation                                 | 3             | 3           | First Nations and Public Consultation                |
| .3.1      | Methods Used to Predict Effects                                       | 3             | 4           | Methods Used to Predict Effects                      |
| .3.2      | Effects on Environmental Components                                   | 3             | 5           | Effects on Environmental Components                  |
| .3.2      | Effects of Environmental Components                                   |               | 5<br>6.1    |                                                      |
| .3.4      | Effects of Environmental Changes on Forman Health                     | 3             | 6.1<br>6.2  | Human Health Sicio-economic Conditions               |
|           | Conditions                                                            |               |             | Sicro-economic Conditions                            |
| .3.5      | Effects of Environmental Changes on Physical and<br>Cultural Heritage | 3             | 6.3 / 6.4   | Traditional Use / Heritage Resources                 |
| .3.6      | Effects of the Environment on the Project                             | 3             | 7           | Effects of the Environment on the Project            |
| 3.7       | Effects of Possible Malfunctions or Accidents                         |               | 8           | Effects of Possible Malfunctions or Accidents        |
| 4         | Mitigation Measure and Residual Effects                               |               | 5/6         | discussed by component                               |
| 5         | Determination of Significance                                         |               | 5/6         | discussed by component                               |
| 6         | Cumulative Effects Analysis                                           |               | 9           | Cumulative Effects Analysis                          |
|           |                                                                       |               | 5/6/10      | discussed by component / Monitoring and Follow-up    |
| 7         | Monitoring and Follow-Up Program                                      |               |             |                                                      |

## Appendix B

Surface Water Quality Data, 1998 to 2002

| Station | Date                    | TOTAL    | ADE-T                                      | CL-T      | CN-T         | CM-HAD   | COND          |                                       |                     | I          |         |          | T             |                    |                 |
|---------|-------------------------|----------|--------------------------------------------|-----------|--------------|----------|---------------|---------------------------------------|---------------------|------------|---------|----------|---------------|--------------------|-----------------|
|         | NAMES OF THE OWNER      | ACIDITY  | AUR-1                                      |           | Service CN-1 | CN-HAD   | COND          | COND-F                                | PLON                | HARD       | PH-7    | PB-L     | SO4-T         | TENP-C             | T98             |
|         |                         | mg/L     | mg/L                                       | Side mg/L | mg/L         | mg/L     | 2010 July 100 | 197 <b>µ9/cm</b> (8                   | L/B                 | THE DOT DE | pH unit | pH unit  | mg/L          | a deg C M          |                 |
| FDU     |                         |          |                                            |           |              |          |               |                                       |                     |            |         |          |               |                    |                 |
|         | 5/19/1998               |          |                                            |           |              |          |               |                                       |                     | <u> </u>   | 6.98    |          | 51            |                    | 7               |
|         | 10/30/1999              |          |                                            |           |              |          |               | · · · · · · · · · · · · · · · · · · · |                     | <u> </u>   | 7.21    |          | 2             | 1                  | 13              |
|         | 6/11/2002               |          |                                            |           |              |          |               |                                       |                     | <u> </u>   | 6.93    |          | 2             | 0                  | <1              |
| R2      |                         |          |                                            |           |              |          |               | 1.                                    |                     |            | ~~~     | <u> </u> | <del>*</del>  |                    | <u> </u>        |
|         | 8/5/1998                |          | 108                                        |           | <0.01        | <u>[</u> |               | 433                                   | 1541.2              | 226        | 7.69    | [        | 39            | 13.5               | 4               |
|         | 9/9/1998<br>9/10/1998   |          | 115                                        |           | <0.01        |          | [             |                                       |                     | 193        |         |          | 117           |                    | 4               |
|         | 7/31/2000               | · · · ·  | 82                                         | <u> </u>  | <0.01        |          | 340           | 399                                   | <u>1541</u><br>4670 | 124        | 7.98    |          |               | 7.4                |                 |
|         | 9/5/2000                |          | 85                                         |           | <0.01        |          | 206           |                                       | 6125                | 78         | 8.07    |          | 83<br>21      | <u>11.6</u><br>5.4 | <1 <1           |
| R3      |                         |          |                                            |           |              |          |               |                                       |                     |            |         | -        | - 1           |                    | <u>``</u>       |
|         | 8/5/1998                |          | 105                                        |           | <0.01        |          |               | 405                                   | 1497                | 209        | 8.11    |          | 36            | 12.8               | 3               |
| ŀ       | 9/9/1998<br>9/10/1998   |          | 118                                        |           | <0.01        |          |               | 262                                   | 1000                | 179        |         | ļ        | 103           |                    | 2               |
|         | 8/1/2000                |          | 84                                         |           | <0.01        |          | 330           | 362                                   | 1892<br>5130        | 122        | 8.18    |          | 76            | 6.4                |                 |
|         | 9/6/2000                |          | 87                                         |           | <0.01        |          | 217           |                                       |                     | 78         | 8.04    |          | 20            | 10.7<br>4          | 1               |
| R4      |                         |          |                                            |           |              |          |               |                                       |                     |            |         |          |               | <u> </u>           | <u> </u>        |
|         | 8/5/1998<br>9/9/1998    |          | 111<br>111                                 |           | 0.01         |          | ~~~~          | 367                                   | 2428.8              | 196        | 8.21    |          | 24            | 8.8                | 3               |
|         | 9/10/1998               |          | 111                                        |           | <0.01        |          |               | 344                                   | 2539                | 172        |         |          | . 93          |                    | 3               |
|         | 3/17/1999               |          |                                            |           |              |          | 565           | 344                                   | 2335                | 262        | 8.32    |          | 149           | 4.7                | 3               |
|         | 8/1/2000                |          | 83                                         |           | <0.01        |          | 315           |                                       | 6290                | 118        |         |          | 69            | 9.1                | 1               |
| R5      |                         |          |                                            |           |              |          |               |                                       |                     |            |         |          |               |                    |                 |
|         | 8/5/1998<br>9/9/1998    |          | 138<br>144                                 |           | <0.01        |          |               | 283                                   | 4307                | 161        | B.31    |          | 9             | 8.1                | 3               |
|         | 9/10/1998               |          | <u>, , , , , , , , , , , , , , , , , ,</u> |           |              |          |               | 281                                   | 4234                | 145        | 8.37    |          | 31            | 3 -7               | 2               |
|         | 8/1/2000                | 1        | 105                                        |           |              |          | 250           |                                       | 11090               | 101        | 8.35    |          | 20            | 3.7                | 2               |
|         | 9/6/2000                |          | 115                                        |           |              |          | 257           |                                       |                     | 107        | 8.4     |          | 18            | 3.2                | 3               |
| R6      | 8/5/1998                |          | 141                                        |           |              |          |               |                                       |                     |            |         |          |               |                    |                 |
| ŀ       | 9/9/1998                |          | 141 151                                    |           |              |          |               | 265                                   | 1678.5              | 158<br>142 | 8.37    |          | 6             | 7.5                | 2               |
|         | 9/10/1998               |          |                                            |           |              |          |               | 264                                   | 1695                | 192        | 8.44    |          | 21            | 3.5                | 1               |
|         | 8/1/2000                |          | 118                                        |           |              |          | 244           |                                       | 4800                | 99         | 8.4     |          | 15            | 7.2                | 1               |
| - 7     | 9/6/2000                |          | 114                                        |           |              |          | 261           |                                       |                     | 111        | 7.4     |          | 18            | 3.2                | 2               |
| R7      | 5/19/1998               |          |                                            | 1.5       |              |          |               |                                       |                     |            |         |          |               |                    |                 |
|         | 6/15/1998               |          | ~                                          | 1.7       |              |          |               |                                       |                     | 29         | 7.26    |          | 3             |                    | 8               |
|         | 8/5/1998                |          | 92                                         |           |              |          |               | 155                                   | 761                 | 83         | 8.19    |          | 9             | 9.2                | 2               |
|         | 9/9/1998                |          | 102                                        |           |              |          |               |                                       |                     | 82         |         |          | 8             |                    | 3               |
|         | 9/10/1998<br>10/19/1998 |          |                                            |           |              |          |               | 157                                   | 675                 |            | 9.01    |          |               | 4.1                |                 |
|         | 2/25/1999               |          |                                            |           |              |          |               |                                       |                     | 153        | 7.62    | 7.10     | 9             |                    | 3               |
|         | 5/17/1999               |          | 1                                          |           |              |          |               |                                       |                     | 21         | 7.46    | 7.19     | 13<br>6       | 2                  | 3<br>16         |
|         | 7/4/1999                |          |                                            |           |              |          |               |                                       | -                   | 54         | 7.17    |          | 5             | 9                  |                 |
|         | 10/30/1999              |          |                                            |           |              |          |               |                                       |                     |            | 7.82    |          | 10            | 0                  |                 |
|         | 3/26/2000               |          |                                            |           | ···-         |          |               |                                       |                     |            |         | 7.77     | 11            |                    | 2               |
|         | 8/1/2000                |          | 66                                         |           |              |          | 126.8         |                                       | 1610                | 47         | 8.79    |          | <u>3</u><br>5 | 8                  | 4               |
|         | 9/6/2000                |          | 66                                         |           |              |          | 144.8         |                                       | 2625                | 61         | 8.06    |          | 7             | 3.2                | 3               |
|         | 9/12/2000               |          |                                            |           | ~            |          |               |                                       |                     |            | 7.43    |          | 22            | 2.7                | <1              |
|         | 3/5/2001<br>6/13/2001   |          |                                            |           |              |          |               |                                       |                     |            | 8.2     |          |               | 1                  | <1              |
|         | 9/8/2001                | •        |                                            |           |              |          |               |                                       |                     |            | 8.2     |          | 6<br>11       | 2.2                | <u>8</u><br>683 |
|         | 3/21/2002               |          |                                            | -         |              |          |               |                                       |                     |            | 010     |          | 12            | 3.1                | 2               |
|         | 6/25/2002               |          |                                            |           |              |          |               |                                       |                     |            |         |          | 7             |                    | 1               |
| W10     | 9/27/2002               |          |                                            |           |              |          |               |                                       |                     |            | 8.1     |          | 9             | 3.5                | 4               |
| 1120    | 6/16/1998               |          |                                            |           |              |          | ~l            |                                       | 10                  |            | 7.89    |          | 4             |                    |                 |
|         | 7/3/1999                |          |                                            |           |              | . 1      |               |                                       | 5                   |            | 7.98    |          | 3             | 7                  | 3               |
|         | 6/3/2000                |          |                                            |           |              |          |               |                                       |                     |            | 7.95    |          | 3             | 4                  |                 |
|         | 6/11/2001<br>6/11/2002  |          |                                            |           |              |          | ~             |                                       |                     |            |         |          | 3             | 3.7                | <1              |
| x5      | UTITIEVUE               |          | -                                          |           |              |          |               |                                       |                     |            | ~~~     |          |               |                    | 1               |
|         | 1/5/1998                |          |                                            |           |              |          |               |                                       |                     |            |         |          |               |                    |                 |
|         | 1/5/1998                |          |                                            |           | <0.01        |          |               |                                       | 265                 |            | 9.09    |          | 438           |                    | <5              |
|         | 1/12/1998               |          | ŀ                                          |           | <0.01        |          |               |                                       | 355                 |            | 0.12    |          |               |                    |                 |
|         | 1/19/1998               |          |                                            |           | -0.01        |          |               |                                       | 445                 |            | 9.13    |          | 378           |                    | 8               |
|         | 1/23/1998               |          |                                            |           |              |          |               |                                       | 492                 |            | 8.67    |          |               |                    |                 |
|         | 1/28/1998               |          |                                            |           |              |          |               |                                       |                     |            |         |          |               |                    |                 |
|         | 2/2/1998<br>2/5/1998    |          |                                            |           |              |          |               |                                       |                     |            |         |          |               |                    |                 |
|         | 2/9/1998                |          |                                            |           |              |          |               |                                       |                     |            |         |          |               |                    |                 |
|         | 2/12/1998               |          |                                            | ŀ         |              |          |               |                                       | 392                 |            | 8.35    |          |               |                    |                 |
|         | 2/14/1998               |          |                                            |           |              |          |               |                                       |                     |            |         |          |               |                    |                 |
|         | 2/18/1998               |          |                                            |           | [            |          |               |                                       | 392                 | ]          | 8.45    |          |               |                    |                 |
|         | 2/19/1998 4/13/1998     |          |                                            |           | <0.01        |          |               |                                       | 0                   |            |         |          |               |                    |                 |
|         | 4/22/1998               |          |                                            |           | -0.01        |          |               |                                       | 182                 |            | 7.22    |          | 389           |                    | 3               |
|         | 4/24/1998               |          |                                            |           |              |          |               |                                       | 105                 | <u> </u>   | 7.62    |          |               |                    |                 |
| ]       | 4/26/1998               | ·····    |                                            |           |              |          |               |                                       | 124                 |            | 7.81    |          |               |                    |                 |
|         | 4/30/1998<br>5/1/1998   |          |                                            |           |              |          |               |                                       | 211                 |            |         |          |               |                    | ]               |
|         | 5/4/1998                |          | <u>+</u>                                   |           | ł            |          |               |                                       | 211                 |            |         | [        |               |                    |                 |
|         | 5/9/1998                |          |                                            |           |              |          |               |                                       | 235                 |            |         |          |               |                    |                 |
|         | 5/14/1998               |          |                                            |           | 1            | t        |               | ·····                                 |                     |            |         |          |               |                    |                 |
| ]       | 5/18/1998               |          |                                            |           |              |          |               |                                       |                     | 1          |         |          |               |                    | ····            |
|         | 5/18/1998               |          |                                            |           | ·            |          |               |                                       |                     |            | 8.24    |          | 414           |                    | 2               |
|         | 5/23/1998               |          |                                            |           | ŀ            |          |               |                                       | 275                 |            |         |          |               |                    |                 |
|         | 6/2/1998                | <u> </u> |                                            |           | <.01         |          |               |                                       | 275                 |            | 8       |          | 398           |                    | 2               |
|         | 6/5/1998                |          |                                            |           |              |          |               |                                       | f                   |            |         |          |               |                    |                 |
|         | 6/8/1998                |          |                                            |           |              | 1        |               |                                       |                     |            |         |          |               |                    |                 |
|         |                         |          |                                            |           |              |          |               |                                       |                     |            |         |          |               |                    |                 |

Faro Site - Select Surface Water Quality Listing, 1998-2002, Physical Parameters

Faro Physical Parameters

| Station | Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | TOTAL                                 | ALX-T     | CLAT             | CN-T         | CN-NAD            | COND      | COMD-T                                | FLOW         | HARD   | PH-F                                    | PR-L                                   | 504-T        | TEMP-C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------|------------------|--------------|-------------------|-----------|---------------------------------------|--------------|--------|-----------------------------------------|----------------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
|         | - Standard | ACIDITY                               | NORMORINE | INSIGNARIAN DATA | ASTRACTOR ST | Consideration and | AND AND A |                                       | RATE         | - DOOD | 100000000000000000000000000000000000000 | ACCOUNTS AND                           | Versi SUS SI | Sales and the second se | 755      |
|         | e stallage distancias                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | mg/L                                  | mg/L      | mg/L             | mg/L         | Eg/L              | ₩µ8/cm    | i ≪µs/cas                             | L/s          |        | pH unit                                 | pH unit                                | mg/L         | A deg C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | latamq/1 |
|         | 6/10/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  |              |                   |           |                                       |              |        |                                         | 1                                      |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
|         | 6/15/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       | ļ         | <u> </u>         |              |                   | <u> </u>  |                                       | 295          | 446    | 7.67                                    |                                        | 165          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2        |
|         | 6/19/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           | <u> </u>         | <0.01        | <0.01             | <u> </u>  |                                       | 0            |        | ļ                                       |                                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
|         | 6/20/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       | <u></u>   | ·                | 0.01         | <0.01             |           |                                       | <u> </u>     |        | <u> </u>                                |                                        | ļ            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ]        |
|         | 6/21/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  | [            |                   |           |                                       | <u> </u>     |        |                                         |                                        | L            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
|         | 6/25/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  |              |                   |           |                                       | 0            | l      |                                         | l                                      | ļ            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ļ        |
|         | 6/26/1998<br>6/30/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                       | <u> </u>  |                  | <0.01        | (2, 0)            |           |                                       |              |        |                                         |                                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
|         | 7/7/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                       |           |                  | <0.01        | <0.01             |           |                                       | 295          |        | 7.58                                    |                                        | 400          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        |
|         | 7/9/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                       |           |                  |              | ļ                 |           |                                       | 295<br>295   |        |                                         |                                        |              | ļ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |
|         | 7/14/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       | [         |                  |              |                   | l         |                                       | 295          |        |                                         | <u> </u>                               |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u> </u> |
|         | 7/16/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  |              |                   |           | <u> </u>                              | 1235         | }      | <u> </u>                                | <u></u>                                |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
|         | 7/21/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  | 0.04         | <0.01             | · · · · · |                                       | 0            |        | 7.65                                    | · · · · · ·                            | 468          | l                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3        |
|         | 7/23/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  |              |                   |           | 1                                     | 0            |        |                                         |                                        |              | Ì                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |
|         | 7/28/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  |              |                   |           | 1                                     | 363          |        |                                         |                                        | ,            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        |
|         | 8/1/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                       |           |                  |              |                   |           |                                       | 363          |        |                                         |                                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
|         | 8/5/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                       |           |                  |              |                   |           | ļ                                     | 1            |        |                                         |                                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
|         | 8/10/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  | <0.01        | <0.01             |           | ·                                     | 290          |        | 7.63                                    | ļ                                      | 162          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6        |
|         | 8/14/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  |              |                   |           |                                       |              |        |                                         | ļ                                      |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ļ        |
|         | 8/17/1998<br>8/21/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                       | ·         |                  |              |                   |           |                                       |              |        | 1                                       | [                                      |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>I</b> |
|         | 8/24/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  |              |                   |           |                                       |              | l      | · · · · · ·                             | [                                      |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | l        |
|         | 8/28/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  |              |                   |           |                                       | 137.5        |        |                                         |                                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u> </u> |
|         | 8/31/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  |              |                   |           | 1                                     | 1 1011.0     |        |                                         |                                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
|         | 9/4/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                       |           |                  |              |                   |           |                                       | 300          |        |                                         |                                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | I        |
|         | 9/7/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                       |           |                  |              |                   |           |                                       | 300          |        | I                                       | 1                                      |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
|         | 9/16/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  |              |                   |           |                                       | 300          |        |                                         |                                        |              | ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |
|         | 9/21/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  |              |                   |           |                                       | 300          |        |                                         |                                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
|         | 9/25/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  | 0.02         |                   |           |                                       | 300          |        |                                         | 7.91                                   | 586          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2        |
|         | 10/2/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  |              |                   |           | Į                                     | 300          |        |                                         | ļ                                      |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
|         | 10/11/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       | <u> </u>  |                  |              |                   |           | <u> </u>                              | 300          |        |                                         | <b></b>                                | ļ            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ļ        |
|         | 10/14/1998<br>10/19/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                       |           |                  | <.01         | <.01              |           | ļ                                     | 300          |        |                                         |                                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
|         | 10/20/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |           |                  | <.01         | 10.>              |           | · · · · · · · · · · · · · · · · · · · | 150<br>0     |        | 7.66                                    |                                        | 615          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 11       |
|         | 11/17/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |           |                  | <0.01        |                   |           |                                       | 0            |        | 7.12                                    |                                        | 569          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5        |
|         | 1/18/1999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  |              |                   |           | <u> </u>                              |              |        | 6.97                                    |                                        | 611          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4        |
|         | 2/21/1999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  |              |                   |           |                                       | 0            |        | 7.62                                    |                                        | 629          | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10       |
|         | 3/21/1999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  | 0.01         | <0.01             |           |                                       |              |        |                                         | 7.17                                   | 538          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
|         | 4/20/1999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  | <.01         | <.01              |           |                                       |              |        | 7.52                                    |                                        | 442          | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 11       |
|         | 5/6/1999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                       |           |                  |              |                   |           |                                       | 0            |        |                                         |                                        | 377          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        |
|         | 5/17/1999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  | <.01         | <.01              |           | L                                     | 0.5          |        | 7.94                                    |                                        | 181          | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2        |
|         | 5/27/1999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  |              |                   |           | L                                     | 40           |        |                                         |                                        | 228          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
|         | 7/3/1999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                       |           |                  | <0.01        | <0.01             |           |                                       | 126          |        | 8.55                                    |                                        | 430          | 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 8        |
|         | 7/27/1999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  | <0.01        | <0.01             |           |                                       | 163          |        | 8.29                                    |                                        | 541          | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 19       |
|         | 7/29/1999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  | <0.01        | <0.01             |           |                                       | 163          |        | 8.53                                    | ······································ | 480          | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 7        |
|         | 8/12/1999<br>9/10/1999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <5                                    | 121       |                  | <0.01        | <0.01             |           |                                       | 197.5<br>325 |        | 8.59                                    |                                        | 493          | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6        |
|         | 10/29/1999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       | - 131     |                  | <0.01        |                   |           |                                       | 325          |        | 7.67                                    |                                        | 536<br>627   | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 7        |
|         | 1/26/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  | <0.01        |                   |           |                                       |              |        | 1.69                                    |                                        | 566          | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 26<br>2  |
|         | 3/25/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  |              |                   |           |                                       | 0            |        |                                         | 7.6                                    | 580          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        |
|         | 4/27/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  | <0.01        |                   |           |                                       | 200          |        | 7.28                                    |                                        | 551          | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3        |
|         | 5/15/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  | <0.01        |                   |           |                                       |              |        | 8.69                                    |                                        | 152          | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        |
|         | 5/22/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       | ]         |                  |              |                   |           |                                       | 249          | ~      |                                         |                                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
|         | 6/4/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                       |           |                  |              |                   |           |                                       |              |        | 9.47                                    |                                        | 380          | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 8        |
|         | 6/4/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                       |           |                  |              |                   |           |                                       | 265          |        |                                         |                                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | [        |
|         | 6/26/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  | <0.01        |                   |           |                                       |              |        | 9.3                                     |                                        | 442          | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 7        |
|         | 7/25/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  |              |                   |           |                                       | 265          |        | 8.32                                    |                                        | 557          | 13.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5        |
|         | 7/28/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  | <0.01        | 10.03             |           |                                       | 848.65       |        | 8.25                                    |                                        | ····         | 14.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |
|         | 8/15/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  | 0.01         | <0.01             |           |                                       |              |        | 0 6                                     |                                        | 5.03         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
|         | 8/30/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  | 0.01         |                   |           |                                       | 1000.25      |        | 8.5                                     |                                        | 581          | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5        |
|         | 9/25/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  | 0.02         |                   |           |                                       | 2000.23      |        | 8.03                                    |                                        | 675          | 9<br>11.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.6      |
|         | 10/21/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |           |                  | <0.01        |                   |           |                                       | 312          |        |                                         |                                        | 507          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 7        |
|         | 10/28/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |           |                  |              |                   |           |                                       |              | 1      |                                         |                                        |              | 2.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |
|         | 11/13/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |           |                  | <0.01        |                   |           |                                       |              |        | 8.2                                     |                                        | 632          | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        |
|         | 11/18/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |           |                  | 0.01         |                   |           |                                       |              |        |                                         |                                        | 561          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.2      |
|         | 11/28/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |           |                  |              | [                 |           | <u> </u>                              |              |        |                                         |                                        | 525          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        |
|         | 12/14/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |           |                  | <0.01        |                   |           |                                       |              |        | 7.9                                     |                                        | 579          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.8      |
|         | 1/13/2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  | <0.01        |                   | · · · · · |                                       |              |        |                                         | 8.26<br>P.05                           | 227          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 14       |
|         | 3/10/2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | · · · · · · · · · · · · · · · · · · · |           |                  | <0.01        |                   |           |                                       |              |        |                                         | 8.05                                   | 283          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5        |
|         | 4/16/2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ł                                     |           |                  | <0.01        |                   |           |                                       |              |        | 8.4                                     |                                        | 577<br>486   | -0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 8        |
|         | 5/14/2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  | <0.01        |                   |           |                                       |              |        | 8.8                                     |                                        | 512          | 2.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2        |
|         | 6/17/2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  | <0.01        |                   |           |                                       |              |        | 8.8                                     |                                        | 545          | 11.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3        |
|         | 6/25/2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  |              |                   |           |                                       | 358.2        |        |                                         |                                        | 2.2          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
|         | 7/14/2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           | 1                | <0.01        |                   |           |                                       |              |        | 8.2                                     |                                        | 588          | 13.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5        |
|         | 8/14/2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  | <0.01        |                   |           |                                       |              |        | 8.8                                     |                                        | 662          | 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 8        |
|         | 8/21/2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  |              |                   |           |                                       | 584          |        |                                         |                                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
| T       | 9/17/2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  | <0.01        |                   |           |                                       |              |        | 8.8                                     |                                        | 630          | 8.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 15       |
|         | 10/15/2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |           |                  | <0.01        |                   |           |                                       |              |        | 8.8                                     |                                        | 633          | 2.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 8        |
|         | 11/13/2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |           |                  | <0.01        |                   |           |                                       |              |        | 8.2                                     |                                        | 632          | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        |
|         | 12/14/2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |           |                  | <0.01        |                   | _,        |                                       |              |        | 8                                       |                                        | 542          | 2.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1        |
| ł       | 12/15/2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |           |                  |              |                   |           |                                       |              |        |                                         |                                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
|         | 1/15/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  | <0.01        |                   | 1200      |                                       |              |        |                                         |                                        | 600          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <1       |
|         | 2/12/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  | <0.01        |                   | 1205      |                                       |              |        |                                         |                                        | 475          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3        |
|         | 4/15/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           | {                | <0.01        |                   |           |                                       |              |        | 8.1                                     |                                        | 528<br>597   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5        |
|         | 5/13/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  | <0.01        | ······            |           |                                       |              |        | 0.1                                     |                                        | 93           | -0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 4<br>2   |
|         | 6/16/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  |              | ·                 |           |                                       |              |        |                                         | · · · ·                                | 577          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u> </u> |
|         | 6/16/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  | <0.01        |                   |           | i                                     |              | ·      |                                         |                                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4        |
|         | 7/16/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       | †         |                  |              |                   |           |                                       |              |        |                                         |                                        | 605          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
|         | 7/16/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  | <0.01        |                   |           |                                       |              |        |                                         |                                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4        |
|         | 8/12/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |           |                  |              |                   |           |                                       |              | 1      |                                         |                                        | 607          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
|         | 0,11,00001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |           |                  |              |                   |           |                                       |              |        |                                         |                                        |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |

## Faro Site - Select Surface Water Quality Listing, 1998-2002, Physical Parameters

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Faro Physical Parameters

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| Faro Site  | e - Select                                                                                                                   | Surface Wa | ter Quali       | ty Listin | v <b>, 1998</b> -: | 2002, Phys                             | lCal Para | meters     |                            |            |                                 |          |                    |                                        |                 |
|------------|------------------------------------------------------------------------------------------------------------------------------|------------|-----------------|-----------|--------------------|----------------------------------------|-----------|------------|----------------------------|------------|---------------------------------|----------|--------------------|----------------------------------------|-----------------|
| Station    |                                                                                                                              |            | ALX-T           |           |                    | CN-#AD                                 | COND      | COND-F     | FLOM                       | MARD       | 28-7                            | PH-L     | 504-T              | TEMP-C                                 | TSB             |
|            |                                                                                                                              |            | mg/L            | mg/L      | mg/L               | ≥g/L                                   |           | YER REPORT | -                          | NORMORA DE | BARANE BARA                     |          | TRACES AND         |                                        | 加速载加速和存变        |
|            | 9/16/2002                                                                                                                    |            | 1990 AND 1 10 1 | AND A DEC | 1990 <b>HU / U</b> | <b>PV</b> / <b>D</b>                   | µ9/cm     | ∭µ8/œs     | JAN DISK                   | mag/L∮.    | pH unit                         | pH unit  | 632                | Coo C                                  | Milling/L-      |
|            | 9/16/2002                                                                                                                    |            |                 |           | <0.01              |                                        | 1         |            |                            |            |                                 |          |                    |                                        | 7               |
|            | 9/29/2002                                                                                                                    |            |                 |           |                    |                                        | <u> </u>  |            |                            | <u> </u>   | 8.2                             |          |                    | 6.3                                    |                 |
|            | 10/15/2002                                                                                                                   |            |                 | <u> </u>  | <0.01              |                                        | <u> </u>  |            |                            |            |                                 |          | 645                | <u> </u>                               | 5               |
|            | 11/12/2002                                                                                                                   |            |                 | [         |                    |                                        |           | 1          |                            |            | 8                               |          | 655                | 0.4                                    |                 |
|            | 11/12/2002                                                                                                                   |            |                 |           | <0.01              |                                        |           |            |                            |            |                                 |          |                    |                                        | 6               |
|            | 12/10/2002                                                                                                                   |            |                 | <u> </u>  | <0.01              |                                        |           |            |                            | <u> </u>   | 7.9                             |          | 635                |                                        | <u> </u>        |
|            | 12/15/2002                                                                                                                   |            |                 |           |                    |                                        |           |            |                            |            | 7.8                             |          |                    | 0.2                                    | 4               |
| <u>x13</u> |                                                                                                                              |            |                 |           |                    |                                        | 1         | <u> </u>   |                            |            |                                 |          |                    |                                        |                 |
| <u> </u>   | 1/5/1998                                                                                                                     |            |                 | ··        | <0.01<br><0.01     |                                        | <u> </u>  |            | 71                         | ļ          | 6.84                            |          | 567                |                                        | 8               |
|            | 1/23/1998                                                                                                                    |            |                 |           | <u> </u>           |                                        |           |            | <u>71</u><br>86            |            | 7.13                            |          | 485                |                                        | 16              |
|            | 2/24/1998                                                                                                                    |            |                 |           | <0.01              |                                        |           |            | 62                         |            | 6.89                            |          | 465                |                                        | 10              |
|            | 3/13/1998                                                                                                                    |            |                 |           |                    |                                        |           |            | 63                         |            |                                 |          |                    |                                        |                 |
|            | 3/17/1998 3/17/1998                                                                                                          |            |                 |           | <0.01              |                                        | <u> </u>  |            | <u>61</u><br>60            |            | 6.98                            |          | 100                |                                        |                 |
|            | 4/3/1998                                                                                                                     |            |                 |           | -0.01              |                                        |           |            | 61                         |            | 0.98                            |          | 132                |                                        |                 |
|            | 4/13/1998                                                                                                                    |            |                 |           | <0.01              |                                        |           |            | 60                         |            | 6.88                            |          | 493                |                                        | 9               |
|            | 4/30/1998<br>5/7/1998                                                                                                        |            |                 |           |                    |                                        |           |            | 62                         |            |                                 |          |                    |                                        |                 |
|            | 5/18/1998                                                                                                                    |            |                 |           |                    |                                        |           |            | 62                         |            |                                 |          |                    |                                        | <u> </u>        |
|            | 5/18/1998                                                                                                                    |            |                 |           | <0.01              |                                        |           |            | 81                         |            | 7.35                            |          | 405                |                                        | 6               |
| ├───┤      | 6/15/1998                                                                                                                    | <u> </u>   |                 | <u> </u>  | <0.01              |                                        |           |            |                            | L          |                                 |          |                    |                                        |                 |
|            | 6/15/1998<br>6/30/1998                                                                                                       |            |                 |           | <0.01              | <0.01                                  |           |            | 97                         | 706        | 7.09                            |          | 489                |                                        | 8               |
|            | 7/21/1998                                                                                                                    |            |                 |           | <0.01              |                                        |           |            | 81                         |            | 7.01                            |          | <u>1181</u><br>419 |                                        | <u>5</u><br>8   |
|            | 8/10/1998                                                                                                                    |            |                 |           |                    |                                        | <u> </u>  |            | 119                        |            | 7.07                            |          | 486                |                                        | 12              |
|            | 9/7/1998<br>9/25/1998                                                                                                        |            |                 | <u> </u>  |                    | I                                      |           |            | 73                         |            |                                 |          |                    |                                        |                 |
|            | 10/19/1998                                                                                                                   |            |                 |           |                    |                                        | <u> </u>  |            | 53                         |            | 7.1                             | 8.29     | 582<br>567         |                                        | 6<br>6          |
|            | 11/13/1998                                                                                                                   |            |                 |           |                    |                                        |           |            | 53                         |            |                                 |          |                    |                                        |                 |
|            | 11/17/1998<br>12/15/1998                                                                                                     |            |                 |           | <0.01              |                                        |           | ļ          | 53                         |            | 6.85                            |          | 600                |                                        | 9               |
|            | 12/21/1998                                                                                                                   |            |                 |           |                    |                                        |           |            | 49                         |            | 6,89                            |          | 441                |                                        | 11              |
|            | 1/18/1999                                                                                                                    |            |                 |           |                    |                                        |           |            | 45                         |            | 6.99                            |          | 717                |                                        | 8               |
| ·          | 1/27/1999                                                                                                                    |            |                 |           |                    | ·                                      |           |            | 45                         |            |                                 |          |                    |                                        |                 |
|            | 2/22/1999<br>3/17/1999                                                                                                       |            |                 |           | <0.01              | <0.01                                  |           |            | 45<br>49                   |            | 6.93                            | -        | 642                | 2                                      | 15              |
|            | 3/24/1999                                                                                                                    |            |                 |           | .0.01              | .0.01                                  | <u> </u>  |            | 49                         |            | 0.93                            |          | 493                | 1                                      | 8               |
|            | 4/3/1999                                                                                                                     |            |                 |           |                    |                                        |           |            | 49                         |            |                                 |          |                    |                                        |                 |
|            | 4/20/1999                                                                                                                    |            |                 |           |                    |                                        | <u> </u>  |            | 49                         |            | 7.16                            |          | 650                | 4                                      | 8               |
|            | 6/4/1999                                                                                                                     |            |                 |           |                    |                                        |           |            | 70                         |            | 7.05                            |          | 682                | 4                                      | 13              |
|            | 6/8/1999                                                                                                                     |            |                 |           |                    |                                        |           |            | 62                         |            |                                 |          |                    |                                        |                 |
| }          | 7/3/1999                                                                                                                     |            |                 |           |                    |                                        |           |            | 82                         |            | 7.16                            |          | 566                | 7                                      | 7               |
|            | 7/27/1999<br>8/12/1999                                                                                                       |            |                 |           | <0.01              | <0.01                                  |           |            | 70<br>63                   |            | 7.64                            |          | 588<br>600         | 6<br>8                                 | <u>12</u><br>10 |
|            | 9/10/1999                                                                                                                    |            |                 |           | <0.01              |                                        |           |            | 52                         |            | 6.91                            |          | 580                | 4                                      | 10              |
|            | 9/28/1999                                                                                                                    |            |                 |           |                    |                                        |           |            | 44                         |            |                                 |          |                    |                                        |                 |
|            | 10/29/1999 11/22/1999                                                                                                        |            |                 |           | <0.01<br><0.01     |                                        |           |            | 49<br>49                   |            | 6.46<br>7.18                    |          | 603<br>684         | <u>1</u>                               | 10              |
|            | 12/14/1999                                                                                                                   |            |                 |           | <0.01              |                                        |           |            | 50                         |            | 6.33                            |          | 547                | 0                                      | 12<br>7         |
|            | 1/27/2000                                                                                                                    |            |                 |           | <0.01              |                                        |           |            | 47                         |            |                                 |          | 569                |                                        | 7               |
|            | 2/28/2000                                                                                                                    |            |                 |           | <0.01<br><0.01     |                                        |           |            | 47 49                      |            | 6.72                            |          | 594                | 0                                      | 19              |
|            | 4/27/2000                                                                                                                    |            | · · · ·         |           | <0.01              | ······································ |           |            | 47                         |            | 6.15                            |          | 587<br>694         | 2                                      | 11              |
|            | 5/15/2000                                                                                                                    |            |                 |           | <0.01              |                                        |           |            |                            |            | 6.52                            |          | 623                | 5                                      | 5               |
| ┝Ҭ         | 6/20/2000                                                                                                                    |            | └───┤           |           |                    |                                        |           |            |                            |            |                                 |          |                    |                                        |                 |
|            | 6/20/2000                                                                                                                    |            | <u> </u>        |           | <0.01              |                                        |           |            | 44.6                       |            | 7.09                            |          | 496<br>52          | 8                                      | 9               |
|            | 7/19/2000                                                                                                                    |            |                 |           | -0101              |                                        |           |            | 44.6                       |            |                                 |          |                    | - 0                                    |                 |
| <u> </u>   | 7/25/2000                                                                                                                    |            |                 |           | <0.01              |                                        |           |            | 49                         |            | 6.99                            |          | 656                | 6.4                                    | 8               |
| ├───┤      | 7/28/2000                                                                                                                    |            |                 |           |                    |                                        |           |            | 54.5<br>46.65              |            | 6.99<br>7.12                    | l        |                    | 6.4                                    |                 |
|            | 8/10/2000                                                                                                                    |            |                 |           |                    |                                        |           |            | 51.1                       |            | 7.25                            |          |                    | 5.6<br>5.1                             |                 |
|            | 8/18/2000                                                                                                                    |            |                 |           |                    |                                        |           |            | 49                         |            | 7.14                            |          |                    | 4.9                                    |                 |
| ·          | 8/24/2000<br>8/29/2000                                                                                                       |            |                 |           | <0.01              |                                        |           |            | 55                         |            | 7.18                            |          | 60.                | 4.9                                    | ]               |
| <b>├</b>   | 9/8/2000                                                                                                                     |            | <b> </b>        |           | ~v.u1              |                                        |           |            | <u>55</u><br>49            |            | 7.1                             | <u> </u> | 694                | <u>5.3</u>                             |                 |
|            | 9/12/2000                                                                                                                    |            |                 |           |                    |                                        |           |            | 55                         |            | 7.15                            |          |                    | 5.5                                    |                 |
|            | 9/25/2000                                                                                                                    |            |                 |           | <0.01              |                                        |           |            | 49                         |            | 7.15                            |          | 459                | 5.3                                    | 6.4             |
|            | 10/19/2000                                                                                                                   |            |                 |           | <0.01              |                                        |           |            | <u>55</u><br>49            | <b> </b>   | 7.24                            |          | 534                | 4.3                                    | 20              |
|            | 11/13/2000                                                                                                                   |            |                 |           | <0.01              |                                        |           |            | 47                         |            | 7.3                             |          | 646                | 1.8                                    | 12              |
|            | 11/18/2000                                                                                                                   |            |                 |           | <0.01              |                                        |           |            | 35                         |            |                                 |          | 620                |                                        | 5.2             |
|            | 1/13/2000                                                                                                                    |            |                 |           | <0.01              |                                        |           |            | 35                         |            | 7.19                            | 7.3      | 585                |                                        | 5.8             |
|            | 2/10/2001                                                                                                                    |            |                 |           | <0.01              |                                        |           |            | 35                         |            | 7.4                             | 7.3      | 295<br>333         |                                        | 8<br>12         |
|            | 3/1/2001                                                                                                                     |            |                 |           |                    |                                        |           | ·          | 47                         |            | 7.4                             |          |                    | 2                                      |                 |
|            | 3/10/2001                                                                                                                    |            |                 |           | <0.01              |                                        |           |            | 47                         |            | 7.4                             |          | 637                | 2.2                                    | 11              |
|            |                                                                                                                              |            |                 |           |                    |                                        |           |            | 49                         |            | 7.4                             |          |                    | 2.2                                    |                 |
|            | 3/15/2001                                                                                                                    |            |                 |           |                    |                                        |           |            | 48                         |            | 7.3                             |          |                    | 2.2                                    |                 |
|            |                                                                                                                              |            |                 |           |                    |                                        |           |            | 48                         |            | 7.4                             |          |                    | 2.2                                    |                 |
|            | 3/15/2001<br>3/27/2001<br>4/5/2001<br>4/11/2001                                                                              |            |                 |           |                    |                                        |           |            |                            |            |                                 |          |                    |                                        |                 |
|            | 3/15/2001<br>3/27/2001<br>4/5/2001<br>4/11/2001<br>4/16/2001                                                                 |            |                 |           | <0.01              |                                        |           |            | 49                         |            | 7.4                             |          | 568                | 2.2                                    | 15              |
|            | 3/15/2001<br>3/27/2001<br>4/5/2001<br>4/11/2001<br>4/16/2001<br>4/23/2001                                                    |            |                 |           | <0.01              |                                        |           |            | 49                         |            | 7.4                             |          | 568                | 2.2                                    | 15              |
|            | 3/15/2001<br>3/27/2001<br>4/5/2001<br>4/11/2001<br>4/16/2001                                                                 |            |                 | ·····     | <0.01              |                                        |           |            |                            |            |                                 |          | 568                | 2.2                                    | 15              |
|            | 3/15/2001<br>3/27/2001<br>4/5/2001<br>4/11/2001<br>4/16/2001<br>4/23/2001<br>4/30/2001<br>5/8/2001<br>5/14/2001              |            |                 |           | <0.01              |                                        |           |            | 49<br>49<br>49<br>48       |            | 7.4<br>7.8<br>7.6<br>7.6        |          | 568<br>544         | 2.2<br>2.8<br>3.1<br>2.4<br>3.7        | 15<br>          |
|            | 3/15/2001<br>3/27/2001<br>4/5/2001<br>4/11/2001<br>4/16/2001<br>4/23/2001<br>4/30/2001<br>5/8/2001<br>5/14/2001<br>5/23/2001 |            |                 |           |                    |                                        |           |            | 49<br>49<br>49<br>48<br>48 |            | 7.4<br>7.8<br>7.6<br>7.6<br>7.5 |          |                    | 2.2<br>2.8<br>3.1<br>2.4<br>3.7<br>2.8 |                 |
|            | 3/15/2001<br>3/27/2001<br>4/5/2001<br>4/11/2001<br>4/16/2001<br>4/23/2001<br>4/30/2001<br>5/8/2001<br>5/14/2001              |            |                 |           |                    |                                        |           |            | 49<br>49<br>49<br>48       |            | 7.4<br>7.8<br>7.6<br>7.6        |          |                    | 2.2<br>2.8<br>3.1<br>2.4<br>3.7        |                 |

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Faro Site - Select Surface Water Quality Listing, 1998-2002, Physical Paramet

Faro Physical Parameters

Faro Physical Parameters

| Station               | Date                                | TOTAL    | ALK-T      | CL-T                                  |             | CN-WAD | COND         | COND-F  |              | Distance              | Marghi  | aviwater                   | 10000 4                                 | 20.02-No.            | Transa da                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------|-------------------------------------|----------|------------|---------------------------------------|-------------|--------|--------------|---------|--------------|-----------------------|---------|----------------------------|-----------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (CONSISTENCE)         | TORNE STATE                         | ACIDITY  | CONTRACTOR | CL-T                                  | CH-2        | CN-WAD | COND         | COND-T  | FLON         | HARD                  | PH-Y    | PH-L                       | 504-T                                   | TENP-C               | <b>TS8</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3450 <i>567</i> 7,945 | C. Clarker                          | mg/L     | mg/L       | mg/L                                  | mg/%        | 247/L  | µ9/cm        | ~µ5/ca  | L/s          | STATE WATE / T. T.    | pH unit | 111. 0000 Million (111.000 | AND | deg C                | All and a second |
|                       | 6/14/2001                           |          |            | 1                                     |             |        |              | NOT COL | 49           | 10400 <b>MU / D</b> H | 7.3     | - passures                 | mg/L                                    | 6.2                  | Read / L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                       | 6/17/2001                           |          | 1          |                                       | <0.01       | ··     |              |         | 49           |                       | 7.6     |                            | 582                                     | 4.1                  | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                       | 6/21/2001                           |          |            |                                       |             |        |              |         | 49           |                       | 7.4     |                            |                                         | 4.8                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ·····                 | 6/29/2001                           |          |            |                                       |             |        |              |         | 49           |                       | 7.6     |                            |                                         | 4.1                  | · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                       | 7/14/2001                           |          | <u> </u>   |                                       | <0.01       |        |              |         | 49           |                       | 7.6     |                            | 495                                     | 4.4                  | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                       | 8/14/2001                           |          | ł          | <u> </u>                              | <0.01       |        |              |         | 49           | ļ                     | 7.5     |                            | 608                                     | 4.9                  | 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                       | 9/12/2001                           |          |            | <u> </u>                              |             |        |              |         | 49           |                       | 7.5     |                            |                                         | 3.6                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 9/17/2003                           |          |            | ļ                                     | <0.01       |        |              |         |              |                       | 7.6     |                            | 599                                     | 4.3                  | 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                       | 9/24/2001 10/15/2001                |          |            |                                       | <0.01       |        |              |         | 49           |                       | 7.6     |                            |                                         | 3.9                  | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                       | 11/13/2001                          | <u> </u> |            |                                       | <0.01       |        |              |         | 49           |                       | 7.4     |                            | 664                                     | 2.8                  | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                       | 12/8/2001                           |          |            |                                       | 1 10.01     |        |              |         | 47           |                       | 7.3     |                            | 646                                     | 1.8                  | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                       | 12/14/2001                          | ······   | [          |                                       | <0.01       |        |              |         | 47           |                       | 7.3     |                            | 559                                     | 2.2                  | ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                       | 12/15/2001                          |          | ·····      | [                                     |             |        |              | -       | r            | 1                     |         |                            | 339                                     | 2.2                  | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                       | 12/20/2001                          |          |            |                                       |             |        |              |         | 47           |                       | 7.5     |                            |                                         | 2.2                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 12/28/2001                          |          |            |                                       |             |        |              |         | 47           |                       | 7.5     |                            |                                         | 2.2                  | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                       | 1/15/2002                           |          |            |                                       | <0.01       |        |              |         |              |                       |         |                            | 570                                     |                      | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                       | 2/12/2002                           |          |            |                                       | <0.01       |        |              |         | ļ            |                       |         |                            | 419                                     |                      | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                       | 3/12/2002                           |          |            |                                       | <0.01       |        |              |         |              |                       |         |                            | 513                                     |                      | 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                       | 4/15/2002 5/13/2002                 |          |            |                                       | <0.01       |        | ~~~          |         | 47           |                       | 7.5     |                            | 582                                     | 3.4                  | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                       | 6/16/2002                           |          |            |                                       | <0.01       |        |              |         |              | ļ                     |         |                            | 684                                     |                      | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                       | 6/16/2002                           |          |            |                                       | <0.01       |        |              |         |              |                       |         |                            | 541                                     |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 7/16/2002                           |          |            |                                       | . 40.01     |        |              |         |              |                       |         |                            |                                         |                      | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                       | 7/16/2002                           |          |            |                                       | <0.01       |        |              |         |              |                       |         |                            | 683                                     |                      | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                       | 8/12/2002                           |          |            |                                       | 7. <b>.</b> |        |              |         |              |                       |         |                            | 693                                     |                      | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                       | 8/12/2002                           |          |            |                                       | <0.01       |        |              |         |              |                       |         | ·····                      |                                         |                      | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                       | 9/5/2002                            |          |            |                                       |             |        |              |         |              |                       | 7.3     |                            |                                         | 5.4                  | Ť                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                       | 9/5/2002                            |          |            |                                       |             |        |              |         | 49           |                       | 7.3     |                            |                                         | 5.4                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 9/12/2002                           |          |            |                                       |             |        |              |         |              |                       | 7.4     |                            |                                         | 5.1                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 9/12/2002                           |          |            |                                       |             |        |              |         | 49           |                       | 7.4     |                            |                                         | 5.1                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 9/16/2002 9/16/2002                 |          |            |                                       | <0.01       |        |              |         |              |                       | 7.4     |                            | 646                                     | 4.6                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 9/16/2002                           |          |            |                                       | ~0.01       |        |              |         | 49           |                       | 7.4     |                            |                                         | 4.6                  | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                       | 9/27/2002                           |          | ·          |                                       |             |        |              |         | 45           |                       | 7.2     |                            |                                         | 5                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 9/29/2002                           |          |            |                                       |             |        |              |         | 12           |                       | 7.2     |                            |                                         | 5                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 10/3/2002                           |          |            |                                       |             |        |              |         |              |                       | 7.4     |                            |                                         | 4.3                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 10/3/2002                           |          |            |                                       |             |        |              |         | 38           |                       | 7.4     |                            |                                         | 4.3                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 10/12/2002                          |          |            |                                       |             |        |              |         |              |                       | 7.4     |                            |                                         | 3.7                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 10/12/2002                          | ·        |            |                                       |             |        |              |         | 38           |                       | 7.4     |                            |                                         | 3.7                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 10/15/2002                          |          |            |                                       |             |        |              |         |              |                       |         |                            | 493                                     |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 10/15/2002                          |          |            |                                       | <0.01       |        |              |         |              |                       |         |                            |                                         |                      | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                       | 10/21/2002                          |          |            |                                       |             |        |              |         | 20           |                       | 7.4     |                            |                                         | 4.2                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 10/29/2002                          |          |            |                                       |             |        |              |         | 38           |                       | 7.4     |                            |                                         | 4.2                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 10/29/2002                          |          |            |                                       |             |        |              |         | 38           |                       | 7.5     |                            |                                         | 3.7                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 11/5/2002                           |          |            |                                       |             | 1      |              | -       | 38           |                       | 7.5     |                            | -                                       | 4.1                  | 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                       | 11/12/2002                          |          |            |                                       |             |        |              |         |              |                       | 7.8     |                            | 678                                     | 2.6                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 11/12/2002                          |          |            |                                       | <0.01       |        |              |         |              |                       |         |                            |                                         |                      | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                       | 11/19/2002                          |          |            |                                       |             |        |              |         | 45           |                       | 7.5     |                            |                                         | 2.7                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 11/26/2002                          |          |            |                                       |             |        | 1            |         | 45           |                       | 7.3     |                            |                                         | 3.6                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 12/3/2002                           |          |            |                                       |             |        |              |         | . 45         |                       | 7.5     |                            |                                         | 2.9                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 12/10/2002                          |          |            |                                       |             |        |              |         |              |                       |         |                            | 639                                     |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 12/10/2002                          |          |            |                                       | <0.01       |        |              |         | 45           |                       | 7.4     |                            |                                         | 3.1                  | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                       | 12/17/2002                          |          |            |                                       |             |        |              |         |              |                       | 7.4     |                            |                                         | 3                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 12/24/2002                          |          |            | · · · · · · · · · · · · · · · · · · · |             |        |              |         |              |                       | 7.3     |                            |                                         | 3.1                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 12/31/2002                          |          |            |                                       | t           | f      |              |         |              |                       | 7.4     |                            |                                         | 2.3                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| K14                   |                                     |          | -          |                                       |             |        |              |         |              |                       |         |                            |                                         | 4.3                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 1/12/1998                           |          |            |                                       |             | 1      |              |         |              |                       | 7.34    |                            | 294                                     |                      | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                       | 2/24/1998                           |          |            |                                       |             | 1      |              |         | 776          |                       | 7.14    |                            | 291                                     |                      | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                       | 3/17/1998                           |          |            |                                       |             |        |              |         |              | 260                   | 7.39    |                            | 1.70                                    |                      | <1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                       | 4/13/1998                           |          |            |                                       |             |        |              |         |              | 226                   | 7.05    |                            | 303                                     |                      | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                       | 4/16/1998                           |          |            |                                       |             |        |              |         | 758          |                       |         |                            |                                         | ]                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 4/22/1998                           | ·        |            |                                       | · · · · ·   |        | <del> </del> | · ·     |              |                       |         |                            |                                         |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 4/24/1998                           |          |            |                                       | ł           |        |              |         | 988          |                       | 7.65    |                            |                                         |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 4/30/1998                           |          |            |                                       |             |        |              |         |              |                       |         |                            |                                         |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| i                     | 5/18/1998                           |          |            | ł                                     |             |        |              |         |              | 85                    | 8.33    |                            | 24                                      | ·                    | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                       | 6/15/1998                           |          | 1          |                                       |             |        |              |         |              | 126                   | 7.87    |                            | 49                                      |                      | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                       | 6/19/1998                           |          |            |                                       | 0.01        | <0.01  |              |         |              |                       |         |                            |                                         |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 6/20/1998                           |          |            | ļ,                                    | 0.02        | <0.01  |              |         |              |                       |         |                            |                                         |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 6/21/1998                           |          |            |                                       |             |        |              |         | ]            | ]                     | ····    |                            |                                         | 1                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 6/21/1998                           |          |            |                                       |             |        |              |         |              |                       |         |                            |                                         |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 7/21/1998<br>8/4/1998               |          |            |                                       | <0.01       |        |              |         | 1641 0       |                       | 7.77    |                            | 24                                      |                      | 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                       | 8/4/1998                            |          |            |                                       |             |        |              |         | 1541.2       |                       |         |                            |                                         |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 9/25/1998                           |          |            |                                       | <0.01       | ŀ      |              |         |              | 161                   | 7.65    | 8.22                       | 45<br>90                                |                      | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 1                     | 10/19/1998                          |          |            |                                       | <.01        | <.01   |              |         |              | 188                   | 7.69    | 0.22                       | 90                                      |                      | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                       | 11/17/1998                          |          |            |                                       | <0.01       |        |              |         |              | 332                   | 7.24    |                            | 149                                     |                      | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                       | 12/21/1998                          |          |            |                                       |             |        |              |         |              | 349                   | 6.94    |                            | 207                                     |                      | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                       | 1/18/1999                           |          |            |                                       |             |        | 1            |         |              | 387                   | 6.72    |                            | 265                                     |                      | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                       | 2/22/1999                           |          |            |                                       |             |        |              |         |              | 413                   | 5.94    |                            | 326                                     | 0                    | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                       | 3/17/1999                           |          |            |                                       | <0.01       | <0.01  | İ            |         | 1            | 398                   | 7.09    |                            | 268                                     | 1                    | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                       | 4/20/1999                           |          |            |                                       | 0.02        | <.01   | T            |         | T            | 304                   | 7.24    |                            | 201                                     | 2                    | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                       | 5/17/1999                           |          |            |                                       | <.01        | <.01   |              |         |              | 51                    | 7.29    |                            | 23                                      | 1                    | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                       | 6/25/1999                           |          |            | ļ                                     |             |        |              |         | 7820         |                       |         |                            |                                         |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 7/3/1999                            |          | <u></u> [- |                                       | 0.02        | <0.01  | ŀ.           |         |              | 86                    | 8.53    |                            | 38                                      | 8                    | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                       |                                     |          | 1          |                                       | <0.01       | <0.01  |              |         |              | 89                    | 8.17    |                            | 32                                      | 9                    | 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                       | 7/27/1999                           |          |            |                                       |             |        |              |         |              |                       |         |                            |                                         |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 7/27/1999                           |          |            |                                       | 0.01        | <0.01  |              |         | 3421         | 100                   | g 70    |                            | 176                                     | — <del>,,     </del> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 7/27/1999<br>7/29/1999<br>B/12/1999 |          |            |                                       | 0.01        | <0.01  |              |         |              | 199                   | 8.18    |                            | 135                                     |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                       | 7/27/1999                           |          |            |                                       | 0.01        | <0.01  |              |         | 3421<br>1912 | 199                   | 8.18    |                            | 135                                     | 11                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

Faro Site - Select Surface Water Quality Listing, 1998-2002, Physical Parameters

## Faro Site - Select Surface Water Quality Listing, 1998-2002, Physical Parameters

| Station                                 | Date                                     | TOTAL   | ALK-T          | -T.            | CN-T                             | CN-WAD                                | COND        | COND-7     | FLOW        | HARD              | PH-F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PH-L                                  | S04-7           | TEMP-C         | <b>T58</b>   |
|-----------------------------------------|------------------------------------------|---------|----------------|----------------|----------------------------------|---------------------------------------|-------------|------------|-------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------|----------------|--------------|
| Well's Verse Verse                      | AND DECEMPENTING                         | ACIDITY | STORY TO STATE | <b>TERMINE</b> | (with the function of the second | STORES (SAVA)                         | 10201000000 | adamenta a | RATE        | NAMES AND ADDRESS | She was a state of the state of | SHG999423849235                       | ana naga naga n | Street was the | 0.0000000000 |
| 100000000000000000000000000000000000000 | (557800000000000000000000000000000000000 | in mg/L | mg/L           | 100 mg / L.S.  | 200 mg/L                         | S BC/L                                | us/ca       | 10 18/Ca   | SPORT / BAR | MAR DO / L        | pe unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DB unit                               | N Rg/L          | deg C          |              |
|                                         | 11/22/1999                               |         |                |                |                                  |                                       |             |            |             | 156               | 7.49                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       | 104             | 0              | 1            |
|                                         | 12/14/1999                               |         |                |                |                                  |                                       | 1           |            |             | 243               | 7.81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       | 114             | 0              | 10           |
|                                         | 1/27/2000                                |         |                |                |                                  |                                       | 1           |            |             | 298               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       | 206             |                | 2            |
|                                         | 2/28/2000                                |         |                |                |                                  |                                       |             |            |             | 302               | 7.56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       | 179             | 0              | 6            |
|                                         | 3/23/2000                                |         |                |                |                                  | 1                                     |             |            |             | 324               | 6.88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       | 185             | 1              | 2            |
|                                         | 4/27/2000                                |         |                |                |                                  |                                       |             |            |             | 367               | 7.43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       | 324             | 2              | 8            |
|                                         | 5/15/2000                                |         |                |                |                                  | 1                                     |             |            |             | 101               | 6.48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       | 60              | 1              | 1            |
|                                         | 6/26/2000                                |         |                |                |                                  |                                       |             |            |             | 135               | 8.63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       | 83              | 12             | 1<br>1       |
|                                         | 7/25/2000                                |         |                |                |                                  | · · · · · · · · · · · · · · · · · · · |             |            | -           | 183               | 8.02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       | 153             | 10.9           | 2            |
|                                         | 8/29/2000                                |         |                |                |                                  |                                       |             |            | ·           | 130               | 7.85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       | 63              | 7              | 1            |
|                                         | 9/25/2000                                |         | []             |                |                                  |                                       |             |            |             | 99                | 7.76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       | 9               | 4.8            | 2.2          |
|                                         | 10/28/2002                               |         | 1              |                |                                  | 1                                     |             |            |             |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |                 | 3.2            |              |
|                                         | 10/29/2000                               |         |                |                |                                  |                                       |             |            |             | 141               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       | 70              |                | 6            |
|                                         | 11/13/2000                               |         |                |                |                                  |                                       |             |            |             | 200               | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                       | 83              | -0.4           | 3            |
|                                         | 11/18/2000                               |         |                |                |                                  |                                       |             |            |             | 99                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | · · · · · · · · · · · · · · · · · · · | 11              |                | 1.6          |
|                                         | 12/14/2000                               |         |                |                |                                  | i                                     |             |            |             | 246               | 7.48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       | 96              |                | 1.2          |
|                                         | 1/13/2001                                |         |                |                |                                  |                                       |             |            |             | 246               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 7.56                                  | 111             |                | 4            |
|                                         | 2/10/2001                                |         |                |                |                                  |                                       |             |            |             | 266               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 7.65                                  | 142             |                | 9            |
|                                         | 3/10/2001                                |         |                |                |                                  |                                       |             |            |             | 291.33            | 7.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       | 153             | 0.6            | 7            |
|                                         | 4/16/2001                                |         |                |                |                                  |                                       |             |            |             | 430               | 7.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       | 166             | 0.2            | 6            |
|                                         | 5/14/2001                                |         |                |                |                                  |                                       |             |            |             | 233               | 8.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       | 130             | 1              | 6            |
|                                         | 6/17/2001                                |         |                |                |                                  |                                       |             |            |             | 65                | 8.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       | 18              | 4.7            | 9            |
|                                         | 7/14/2001                                |         |                |                |                                  |                                       |             |            | 1           | 128               | 8.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       | 56              | 9.1            | 3            |
|                                         | 8/14/2001                                |         | -              |                |                                  |                                       |             |            |             | 627               | 8.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       | 138             | 10.3           | 9            |
|                                         | 9/17/2001                                |         |                |                |                                  |                                       |             |            |             | 175               | 8.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       | 83              | 6.7            | 7            |
|                                         | 10/15/2001                               |         |                |                | <0.01                            |                                       |             |            |             | 367               | 8.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       | 288             | 0.6            | 9            |
|                                         | 11/13/2001                               |         |                |                |                                  |                                       |             |            |             | 200               | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                       | 83              | -0.4           | 3            |
|                                         | 12/14/2001                               |         |                |                |                                  |                                       |             |            |             | 392               | 7.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       | 241             | 0.2            | 4            |
|                                         | 12/15/2001                               |         |                |                |                                  |                                       |             |            |             |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |                 |                |              |
|                                         | 1/15/2002                                |         |                |                |                                  |                                       |             |            |             | 207               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       | 81              |                | 5            |
|                                         | 2/12/2002                                |         |                | (              | _                                |                                       |             |            |             | 224               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       | 78              |                | <1           |
|                                         | 3/12/2002                                |         |                |                |                                  |                                       |             |            |             | 377               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       | 190             |                | 9            |
|                                         | 4/15/2002                                |         |                |                |                                  |                                       |             |            |             | 403               | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                       | 211             | 1.6            | 4            |
|                                         | 5/13/2002                                |         |                |                |                                  |                                       |             |            |             | 119               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       | 42              |                | 25           |
|                                         | 6/16/2002                                |         | [              |                |                                  |                                       |             |            |             | 95                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       | 27              |                | <1           |
|                                         | 7/16/2002                                |         |                |                |                                  |                                       |             |            |             | 250               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       | 166             |                | 1            |
|                                         | 8/12/2002                                |         |                |                |                                  |                                       |             |            |             |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       | 41              |                | 1            |
|                                         | 9/16/2002                                |         |                |                |                                  |                                       |             |            |             | 214               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       | 118             |                | 2            |
|                                         | 10/15/2002                               |         |                |                |                                  |                                       |             |            |             | 139               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       | 38              |                | 4            |
|                                         | 11/11/2002                               |         |                |                |                                  |                                       |             |            |             |                   | 8.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       |                 | 0.4            | i            |
|                                         | 11/12/2002                               |         |                | 1              |                                  |                                       |             |            |             | 186               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       | 64              |                | 3            |
|                                         | 12/10/2002                               |         |                |                |                                  |                                       |             |            |             | 233               | 7.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       | 92              | 0.2            | 2            |

| Station  | Date                 | <u>л</u> д-т | AL-T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | AS-T   | B-T           | BA-T   | BE-T           | BI-T          | CA-T         | CD-T   | СО-Т      | CR-T           | CU-T            | FE-T         | RG-T                                                                                                            | R-T         | LA-T   | LI-T        | MG-T  | MN-T              |
|----------|----------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------|--------|----------------|---------------|--------------|--------|-----------|----------------|-----------------|--------------|-----------------------------------------------------------------------------------------------------------------|-------------|--------|-------------|-------|-------------------|
| SCH MARA | 法问题的问题问题             |              | - State Stat |        | SAN MARKAN MA |        |                |               |              |        | 2019年1月1日 |                | STANDARD ST     | SERVER AND A | h THE MERICAL SCHOOL | Maria Maria |        | 70250040805 |       | STATES CONTRACTOR |
|          | 2002.0030.024.81     | mg/L         | mg/D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | mg/L   | mg/L          | mg/L   | n mg/L         | mg/L          | mg/L         | mg/L   | mg/L      | mg/L           | mg/L            | mg/L         | mg/L                                                                                                            | mg/L        | mg/L   | mg/L        | mg/L  | S mg/L            |
| FDU      | F /10 /1000          |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |               |        |                |               |              |        | ļ         |                |                 |              |                                                                                                                 |             |        |             |       |                   |
|          | 5/19/1998            | <.003        | 0.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.02   | 0.22          | 0.036  | 0.02           | <.04          | 3.5          | <.002  | <.005     | 0.039          | 0.026           | 0.35         |                                                                                                                 | 1           | 0.036  |             | 1.5   | <.01              |
|          | 10/30/1999           | <.003        | 0.08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.005  | <.05          | 0.096  | 0.002          | <.04          | 3.8          | 0.001  | <.005     | <.005          | 0.013           | 0.23         |                                                                                                                 | 1           | <.005  |             | 0.7   | 0.03              |
|          | 6/11/2002            | <0.2         | 0.276                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <0.003 | 0.08          | 0.169  | 0.001          | <0.01         | 3.8          | <0.2   | 0.003     | 0.008          | 0.011           | 0.05         |                                                                                                                 | 1           | 0.027  |             | 1     | <.01              |
| R2       |                      |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | 9.00          | 0.1102 |                | ~0.01         |              | ~~     | 0.003     | 0.02           | 0.064           | 0.256        |                                                                                                                 | 0.3         | <0.001 |             | 0.7   | 0.007             |
|          | 8/5/1998             | <.0006       | 0.07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.004  | 0.09          | 0.0522 | 0.0003         | <.008         | 66.47        | 0.0005 | 0.003     | <.001          | 0.0108          | 0.247        | <.1                                                                                                             | 2.5         | 0.012  |             | 14    | 0.889             |
|          | 9/9/1998             | <.001        | 0.14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.005  | <.05          | 0.13   | <.001          | <.04          | 57           | <.001  | <.005     | 0.031          | 0.04            | 0.54         | <.1                                                                                                             | 1.6         | <.005  |             | 14    | 1.16              |
|          | 9/10/1998            |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |               |        |                |               |              |        |           |                |                 |              |                                                                                                                 |             | (.005  |             | 11.0  | 7.10              |
|          | 7/31/2000            | <.0001       | 0.075                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.001  | <.002         | 0.0403 | 0.0003         | <.001         | 41.5         | <.0001 | <.0002    | <.0002         | 0.0059          | 0.392        |                                                                                                                 | 1.49        | 0.0027 |             | 8,383 | 0.4625            |
|          | 9/5/2000             | <.0001       | 0.028                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <.001  | 0.053         | 0.0485 | 0.0002         | <.001         | 22.737       | <.0001 | 0.0028    | <.0002         | 0.0152          | 0.261        |                                                                                                                 | 0.86        | <.0002 |             | 5.175 | 0.1002            |
| R3       | 8/5/1998             | <.0006       | 0.05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |               |        |                |               |              |        |           |                |                 |              |                                                                                                                 |             |        |             |       | 1                 |
|          | 9/9/1998             | <.000        | 0.05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.004  | 0.04<br><.05  | 0.0539 | 0.0003         | <.008<br><.04 | 61.68        | 0.0012 | 0.001     | <.001          | 0.0056          | 0.241        | <.1                                                                                                             | 2.2         | 0.012  |             | 12.75 | 0.63              |
|          | 9/10/1998            | 2.001        | 0.13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        | <u> </u>      | 0.139  | <.001          | <.04          | 56.2         | <.001  | <.005     | 0.058          | 0.042           | 0.27         | <.1                                                                                                             | 1.5         | <.005  |             | 11.5  | 0.9               |
|          | 8/1/2000             | <.0001       | 0.065                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <.001  | <.002         | 0.0369 | 0.0003         | <.001         | 38.5         | <.0001 | 0.0005    | <.0002         | 0.0053          | 0.169        |                                                                                                                 | 1 1 1       |        |             |       |                   |
|          | 9/6/2000             | <.0001       | 0.069                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <.001  | 0.059         | 0.05   | 0.0002         | <.001         | 23.092       | <.0001 | 0.0036    | <.0002         | 0.0053          | 0.159        |                                                                                                                 | 1.39        | 0.0202 |             | 7.733 | 0.4123            |
| R4       |                      |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |               |        |                |               |              |        |           |                | 0.0105          | 4.436        |                                                                                                                 | 0.3         | N.0002 |             | 4.994 | 0.079             |
|          | 8/5/1998             | <.0006       | 0.06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.004  | 0.07          | 0.0676 | 0.0002         | <.008         | 57.47        | 0.0006 | <.001     | <.001          | 0.0032          | 0.144        | <.1                                                                                                             | 1.9         | 0.008  |             | 12.08 | 0.271             |
|          | 9/9/1998             | 0.001        | 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <.005  | <.05          | 0.159  | <.001          | <.04          | 52           | 0.001  | <.005     | 0.037          | 0.035           | 0.17         | <.1                                                                                                             | 1.3         | <.005  |             | 10.8  | 0.48              |
|          | 9/10/1998            |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |               |        |                |               |              |        |           |                |                 |              |                                                                                                                 |             |        |             |       |                   |
|          | 3/17/1999            | <.003        | 0.23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.005  | 0.17          | 0.092  | <.001          | <.04          | 81.3         | <.001  | <.005     | 0.207          | 0.025           | 0.06         |                                                                                                                 | 1           | 0.006  |             | 14.2  | 0.08              |
| R5       | 8/1/2000             | <.0001       | 0.085                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <.001  | 0.036         | 0.0598 | 0.0003         | <.001         | 39.1         | <.0001 | <.0002    | <.0002         | 0.0073          | 0.169        |                                                                                                                 | 1.38        | 0.0029 |             | 7.989 | 0.2632            |
| 143      | 8/5/1998             | <.0006       | 0.05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.004  | 0.05          | 0.0762 | <.0002         |               | 11           |        |           |                |                 |              |                                                                                                                 |             |        |             |       |                   |
|          | 9/9/1998             | <.001        | 0.05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.004  | <.05          | 0.0762 | <.0002         | <.008<br><.04 | 44.84        | <.0004 | <.001     | 0.002          | 0.0033          | 0.102        | <.1                                                                                                             | 1.1         | 0.009  |             | 11.29 | 0.057             |
|          | 9/10/1998            |              | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ×.000  | ×.05          | 0.135  | <.001          | <.U4          | 41.9         | <.001  | <.005     | 0.022          | 0.036           | 0.11         | <.1                                                                                                             | <1          | <.005  |             | 10    | 0.06              |
|          | 8/1/2000             | <.0001       | 0.08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.001  | 0.034         | 0.0631 | 0.0002         | <.001         | 32.5         | <.0001 | <.0002    | <.0002         | 0.0041          | 0.118        |                                                                                                                 | 1.05        | 0 0007 |             |       |                   |
|          | 9/6/2000             | <.0001       | 0.109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <.001  | 0.055         | 0.0827 | 0.0003         | <.001         | 31.201       | <.0001 | 0.0012    | <.0002         | 0.0041          | 0.118        |                                                                                                                 | 1.05        | 0.0087 |             | 8.263 | 0.0359            |
| R6       |                      |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |               |        |                |               |              |        |           |                |                 |              |                                                                                                                 |             | ~      |             | 0.423 | 0.01//            |
|          | 8/5/1998             |              | 0.04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.004  | 0.03          | 0.0839 | <.0002         | <.008         | 43.28        | <.0004 | <.001     | 0.008          | 0.0043          | 0.119        | <.1                                                                                                             | 0.9         | 0.01   |             | 11.66 | 0.009             |
| ļ        | 9/9/1998             | 0.001        | 0.11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.005  | <.05          | 0.161  | <.001          | <.04          | 40.4         | 0.002  | <.005     | 0.044          | 0.036           | 0.09         | <.1                                                                                                             | <1          | <.005  |             | 10    | <.01              |
| <b> </b> | 9/10/1998            |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |               |        |                |               |              |        |           |                |                 |              |                                                                                                                 |             |        |             |       |                   |
|          | 8/1/2000<br>9/6/2000 |              | 0.081                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.003  | 0.017         | 0.064  | 0.0003         | <.001         | 32.5         | <.0001 | <.0002    | <.0002         | 0.0059          | 0.137        |                                                                                                                 | 0.88        | 0,0101 |             | 8.529 | 0.0127            |
| R7       | 97672000             | <.0001       | 0.148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <.001  | 0.048         | 0.0731 | 0.0003         | <.001         | 32.216       | <.0001 | 0.0021    | <.0002         | 0.0167          | 0.374        |                                                                                                                 | 1.03        | <.0002 |             | 8.902 | 0.0152            |
|          | 5/19/1998            | <.003        | 0.36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.02   | 0.21          | 0.036  | <.001          | <.04          | 8.3          | <.002  | <.005     | 0.02           | 0.000           |              |                                                                                                                 |             |        |             |       |                   |
|          | 6/15/1998            | <.003        | <.05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.02   | <.05          | 0.036  | <.001          | <.04          | 16.8         | <.002  | <.005     | <.005          | 0.022           | 0.99         |                                                                                                                 | <1          | 0.022  |             | 1.9   | 0.05              |
|          | 8/5/1998             |              | 0.04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.004  | 0.03          | 0.0506 | <.0001         | <.008         | 24.31        | 0.0016 | 0.002     | <.005          | 0.0029          | 0.122        | <.1                                                                                                             | <1          | <.005  |             | 3.3   | <.01              |
|          | 9/9/1998             | <.001        | 0.14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.005  | <.05          | 0.136  | <.001          | <.04          | 25.4         | <.001  | <.005     | 0.025          | 0.034           | 0.07         | <.1                                                                                                             | <1          | <.005  |             | 4.9   | <,01              |
|          | 9/10/1998            |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |               |        |                |               |              |        |           |                |                 |              |                                                                                                                 |             |        | [           | 3.2   | <u> </u>          |
|          | 10/19/1998           | <.003        | 0.07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.02   | 0.12          | 0.056  | <.001          | <.04          | 28.2         | <.002  | 0.011     | <.005          | 0.009           | 0.14         |                                                                                                                 | <1          | <.005  |             | 5.7   | 0.01              |
|          | 2/25/1999            | <.003        | 0.16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.005  | 0.24          | 0.103  | <.001          | <.04          | 46           | <.001  | <.005     | <.005          | 0.022           | 0.11         |                                                                                                                 | <1          | <.005  |             | 9.4   | 0.02              |
|          | 5/17/1999            | <.003        | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.005  | <.05          | 0.134  | 0.002          | <.04          | 8.4          | <.001  | <.005     | <.005          | 0.013           | 1.63         |                                                                                                                 | 2           | <.005  |             | 1.2   | 0.03              |
|          | 7/4/1999             | <.003        | 0.35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.005  | 0.27          | 0.053  | <.001          | <.04          | 18.1         | 0.025  | <.005     | <.005          | 0.009           | 1.28         |                                                                                                                 | <1          | <.005  |             | 4.2   | 0.03              |
|          | 3/26/2000            | <.003        | 0.08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.005  | 0.05          | 0.159  | <.001<br><.001 | <.04<br><.05  | 24.2         | <.001  | <.005     | <.005          | 0.01            | 0.09         |                                                                                                                 | 2           | <.005  |             | 4.9   | 0.01              |
|          | 6/3/2000             | <.003        | 0.08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.005  | <.05          | 0.199  | <.001          | <.05          | 40.6         | <.001  | 0.02      | <.005          | 0.002           | 0.07         |                                                                                                                 | 2           | <.005  |             | 8.1   | 0.21              |
|          | 8/1/2000             | <.0001       | 0.07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.001  | <.002         | 0.0511 | 0,0001         | <.001         | 16.5         | <.001  | <.005     | <.0002         | <.002<br>0.0033 | 0.83         |                                                                                                                 | 2           | <.005  |             | 2     | 0.02              |
|          | 9/6/2000             | <.0001       | 0.04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.001  | 0.031         | 0.0565 | 0.0001         | <.001         | 19.716       | <.0001 | 0.0002    | <.0002         | 0.0033          | 0.279        |                                                                                                                 | 0.36        | 0.0164 |             | 3,119 | 0.0129            |
|          | 9/12/2000            | <.003        | 0.09                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.005  | <.05          | 0.133  | <.001          | <.05          | 23           | <.001  | <.005     | <.005          | 0.00112         | 0.279        |                                                                                                                 | <1          | <.0002 |             | 3.979 | 0.0164            |
|          | 3/5/2001             | <.003        | 0.35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.005  | 0.15          | 0.25   | <.001          | <.05          | 42           | <.001  | <.005     | <.005          | 0.01            | 0.08         |                                                                                                                 | 1.95        | <.005  |             | 8.39  | 0.02              |
|          | 6/13/2001            | <.003        | 0.32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.005  | <.05          | 0.148  | <.001          | <.05          | 8.2          | <.001  | <.005     | <.005          | 0.002           | 0.51         |                                                                                                                 | <1          | <.005  |             | 1.9   | 0.01              |
|          | 9/8/2001             | <0.003       | 0.06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.068  | 2.26          | 0.149  | <0.001         | <0.05         | 26.6         | <0.001 | <0.005    | <0.005         | 0.01            | 0.13         |                                                                                                                 | <1          | 0.009  | -           | 5.1   | 0.02              |
|          | 3/21/2002            | <0.001       | 0.06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <0.005 | <0.05         | 0.167  | <0.001         | <0.05         | 50.2         | <0.001 | <0.005    | <0.005         | <0.002          | 0.05         |                                                                                                                 | 2           | 0.01   |             | 9.4   | 0.02              |
|          | 6/25/2002            | <0.2         | 0.148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <0.003 | 0.07          | 0.191  | 0.2            | <0.01         | 20.8         | 1.1    | <0.001    | 0.009          | 0.011           | 0.18         |                                                                                                                 | 0.7         | 0.002  |             | 4.5   | 0.015             |
| 110      | 9/27/2002            | <0.2         | 0.058                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <0.003 | 0.09          | 0.139  | <0.2           | 0.02          | 28.6         | <0.2   | <0.001    | <0.001         | 0.015           | 0.164        |                                                                                                                 | 0.6         | 0.004  |             | 5.4   | 0.018             |
| W10      | 6/16/1998            | <.003        | <.05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.02   | <.05          | 0.091  | <.001          |               | 12.0         |        |           |                |                 |              |                                                                                                                 |             |        |             |       |                   |
|          | 7/3/1999             | <.003        | <.05<br>0.31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <.02   | 0.34          | 0.091  | <.001          | <.04          | 13.7<br>11.7 | <.002  | <.005     | <.005          | 0.024           | <.01         |                                                                                                                 | <1          | <.005  |             | 1.8   | <.01              |
|          | 6/3/2000             | <.003        | <.05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.005  | <.05          | 0.018  | <.001          | <.05          | 7.4          | 0.003  | <.005     | <.005<br>0.048 | 0.008           | 0.86         |                                                                                                                 | <1          | <.005  |             | 1.6   | 0.01              |
|          |                      |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |               | 0.005  | ~.001          | ~.05          | / . <b>4</b> | ~.V01  | ~.003     | 0.048          | <.002           | 0.11 [       |                                                                                                                 | 2           | <.005  |             | 1.5   | <.01              |

| Station               | Date                   | AG-T  | AL-T     | A8-T                | B-T      | вл-т   | BE-T  | BI-T    | СУ⊶Т     | 200-T        | со-т     | CR-T  | CO-T   | FE-T      | EG-T | R-T    | LA-T          | БТ-Т | MG-T   | MN-T     |
|-----------------------|------------------------|-------|----------|---------------------|----------|--------|-------|---------|----------|--------------|----------|-------|--------|-----------|------|--------|---------------|------|--------|----------|
|                       |                        |       | WERE AND | 94600 <b>1</b> 5146 |          |        |       |         |          |              |          |       |        |           |      | 制的网络网络 | ALL AND AND A |      | 1999-1 | SILL T   |
|                       | 54684864949498         | mg/L  | ng/L     | mg/La               | S≈ mg/L  | ារជំ 🖓 | ng/L  | ∭ mg/L  | mg/L     | mg/L         | mg/L     | mg/L  | mg/L   | mg/L      | mg/L | mg/L   | mg/L          | mg/L | mg/L   | mg/L     |
|                       | 6/11/2001              |       | 0.14     | 0.011               | 0.08     | 0.119  | <.001 | <.05    | 9.4      | 0.003        | <.005    | <.005 | 0.003  | 0.12      |      | <1     | <.005         |      | 1.4    | 0.02     |
| x5                    | 6/11/2002              | <0.2  | 0.139    | 0.008               | 0.05     | 0.238  | <0.2  | <0.01   | 11.1     | 1.8          | 0.003    | 0.006 | <0.001 | 0.068     |      | 0.5    | 0.002         |      | 1.4    | 0.031    |
| <b>N</b> 3            | 1/5/1998               |       |          |                     |          |        |       | ,       |          |              |          | l     |        |           |      |        |               |      |        |          |
|                       | 1/5/1998               |       | <.05     | <.02                | 0.19     | 0.024  | <.001 | <.04    | 124.5    | <.002        | <.005    | <.005 | 0.012  | 0.03      |      | -11    | 1 005         |      | ~~ ~   |          |
|                       | 1/12/1998              |       |          |                     |          | 0.024  |       | <u></u> | 149.3    | <b>N,002</b> | <u> </u> | ~.005 | 0.012  | 0.03      |      | <1     | <.005         |      | 20.7   | 0.35     |
|                       | 1/12/1998              |       | <.05     | 0.02                | <.05     | 0.093  | <.001 | <.04    | 120.1    | <.002        | <.005    | <.005 | 0.005  | 0.02      |      | 2      | <.005         |      | 18.9   | 0.35     |
|                       | 1/19/1998              |       |          |                     |          |        |       |         |          |              |          |       | 1      |           |      |        | 3.005         |      | 10.5   | <u> </u> |
|                       | 1/23/1998              |       |          |                     |          |        |       |         |          |              |          |       |        |           |      |        |               |      |        |          |
|                       | 1/28/1998              |       |          |                     |          |        |       |         |          |              |          |       |        |           |      |        |               |      |        |          |
| ļ                     | 2/2/1998               |       | · · · ·  |                     |          |        |       |         |          |              |          |       |        |           |      |        |               |      |        |          |
|                       | 2/5/1998               |       |          |                     |          |        |       |         |          |              |          |       |        |           |      |        |               |      |        |          |
| }                     | 2/9/1998               |       |          |                     |          |        |       |         |          |              |          |       |        |           |      |        |               |      |        |          |
| ļ                     | 2/12/1998 2/14/1998    |       |          |                     |          |        |       |         |          |              |          |       |        |           |      |        |               |      |        |          |
|                       | 2/18/1998              |       |          |                     |          |        |       |         |          |              |          |       |        |           |      | l      |               |      |        |          |
|                       | 2/19/1998              |       |          |                     |          |        |       |         |          |              |          |       |        |           |      |        |               |      |        | []       |
|                       | 4/13/1998              |       | 0.08     | <.02                | <.05     | 0.093  | <.001 | <.04    | 128.9    | <.002        | 0.006    | 0.028 | 0.137  | 0.03      |      | -      | 0.005         |      |        |          |
|                       | 4/22/1998              |       |          |                     |          |        |       |         | <u></u>  | 2.002        | 0.000    | 0.020 | 0.131  | 0.05      |      | 6      | 0.005         |      | 23.3   | 1.3      |
|                       | 4/24/1998              |       | i        |                     |          |        |       |         |          |              |          |       |        |           |      | !      |               |      |        | ┟─────┦  |
|                       | 4/26/1998              |       |          |                     |          |        |       |         |          |              |          |       |        |           |      |        |               |      |        | ff       |
|                       | 4/30/1998              |       |          |                     |          |        |       |         |          |              |          |       |        |           |      |        |               |      |        |          |
|                       | 5/1/1998               |       |          |                     |          |        |       |         |          |              |          |       |        |           |      |        |               |      |        |          |
|                       | 5/4/1998               |       |          |                     |          |        |       |         |          |              |          |       |        |           |      |        |               |      |        |          |
|                       | 5/9/1998               |       |          |                     |          |        |       |         |          |              |          |       |        |           |      |        |               |      |        |          |
|                       | 5/14/1998              |       |          |                     |          |        |       |         |          |              |          |       |        |           |      |        |               |      |        |          |
| L                     | 5/18/1998              |       |          |                     |          |        |       |         |          |              |          |       |        |           |      |        |               |      |        |          |
|                       | 5/18/1998              |       | 0.22     | <.02                | 0.22     | 0.03   | <.001 | <.04    | 113      | <.002        | <.005    | 0.008 | 0.043  | 0.02      |      | 6      | <.005         |      | 18.4   | 0.88     |
|                       | 5/23/1998<br>5/27/1998 |       |          |                     |          |        |       |         |          |              |          |       |        |           |      |        |               |      |        |          |
|                       | 6/2/1998               |       | 0.1      | <.02                | <.05     | 0.101  | 0.002 | <.04    | 120.9    | <.002        | 0.017    | 0.028 | 0.024  | 0.00      |      |        |               |      |        | <u> </u> |
|                       | 6/5/1998               |       | V.*      | 1.02                | <u> </u> |        | 0.002 | 4.04    | 120.9    | <u> </u>     |          | 0.028 | 0.024  | 0.23      |      | 6      | 0.017         |      | 19.5   | 0.9      |
|                       | 6/8/1998               |       |          |                     |          |        |       |         |          |              |          |       |        |           |      |        |               |      |        |          |
|                       | 6/10/1998              |       |          |                     |          |        |       |         |          |              |          |       |        |           |      |        |               |      |        |          |
|                       | 6/15/1998              | <.003 | 0.09     | <.02                | 0.06     | 0.104  | 0.001 | <.04    | 140.2    | <.002        | <.005    | <.005 | 0.053  | 0.24      |      | 8      | 0.009         |      | 22.7   | 1.16     |
|                       | 6/19/1998              |       |          |                     |          |        |       |         |          |              |          |       |        |           |      |        |               |      |        |          |
|                       | 6/20/1998              |       | 0.08     | <.02                | <.05     | 0.112  | <.001 | <.04    | 128.8    | <.002        | <.005    | 0.016 | 0.046  | 0.09      |      | 8      | <.005         |      | 21.3   | 0.97     |
|                       | 6/21/1998              |       | 0.07     | <.02                | <.05     | 0.107  | <.001 | <.04    | 122.2    | <.002        | <.005    | 0.073 | 0.035  | 0.25      |      | 7      | 0.013         |      | 20.3   | 0.99     |
|                       | 6/25/1998              |       |          |                     |          |        |       |         |          |              |          |       |        |           |      |        |               |      |        |          |
|                       | 6/26/1998<br>6/30/1998 |       | 0.11     |                     | - 05     |        |       |         | 127.0    |              |          |       |        |           |      |        |               |      |        | <u> </u> |
|                       | 7/7/1998               |       | 0.11     | <.02                | <.05     | 0.114  | 0.001 | <.04    | 135.9    | <.002        | 0.009    | <.005 | 0.02   | 0.03      |      | 7      | <.005         |      | 23.2   | 1.08     |
|                       | 7/9/1998               |       |          |                     |          |        |       |         |          |              |          |       |        |           |      |        |               |      |        |          |
|                       | 7/14/1998              |       |          |                     |          |        | · · · |         |          |              |          |       |        |           |      |        |               |      |        | ·        |
|                       | 7/16/1998              |       |          |                     |          |        |       |         |          |              |          |       |        |           |      |        |               |      |        | r{       |
|                       | 7/21/1998              |       | 0.09     | 0.03                | <.05     | 0.088  | <.001 | <.04    | 165.7    | <.002        | 0.009    | 0.043 | 0.049  | 0.12      |      | 9      | <.005         |      | 30.5   | 1.85     |
|                       | 7/23/1998              |       |          |                     |          |        |       |         |          |              |          |       |        |           |      |        |               |      |        |          |
|                       | 7/28/1998              |       |          |                     |          |        |       |         |          |              |          |       |        |           |      |        |               |      |        | ·        |
|                       | 8/1/1998               |       |          |                     |          |        |       |         |          |              |          |       |        |           |      |        |               |      |        |          |
|                       | 8/5/1998               |       |          |                     |          |        |       |         |          |              |          |       |        |           |      |        |               |      |        |          |
| ļ!                    | 8/10/1998              |       | 0.21     | <.02                | 0.25     | 0.003  | 0.001 | <.04    | 183.2    | <.002        | <.005    | 0.006 | 0.063  | 0.18      |      | 10     | 0.045         |      | 34.7   | 2.87     |
| <b> </b>              | 8/14/1998              |       | <u>.</u> |                     |          |        |       |         |          |              |          |       |        |           |      |        |               |      |        |          |
| <b> </b>              | 8/17/1998              |       |          |                     |          |        |       |         |          |              |          |       |        |           |      |        |               |      |        |          |
|                       | 8/21/1998              |       |          |                     |          |        |       |         |          |              |          |       |        |           |      |        |               |      |        |          |
|                       | 8/24/1998 8/28/1998    |       |          |                     |          |        |       |         |          |              |          |       |        |           |      |        |               |      |        |          |
| <b>├</b> ──- <b> </b> | 8/31/1998              |       |          |                     |          |        |       |         |          |              |          |       |        |           |      |        |               |      |        |          |
|                       | 9/4/1998               |       |          |                     |          |        |       |         |          |              |          |       |        |           |      |        |               |      |        |          |
|                       | 9/7/1998               |       |          |                     |          |        |       |         |          |              |          |       |        | · · · · · |      | {      |               |      |        |          |
|                       | 9/16/1998              |       |          |                     |          |        |       |         |          |              |          |       |        |           |      |        |               |      |        |          |
|                       | 9/21/1998              |       |          |                     |          |        |       |         |          |              |          |       | 1      |           |      |        |               |      |        |          |
| L                     |                        |       | L        |                     | I        |        |       | 1       | <u> </u> | I            |          |       |        |           |      |        |               | 1    |        |          |

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| Station | Date                     | NG-T         | AL-T     |                | B-T     | вл-т  | BE-T           | BI-T            | Сл-т           | ₩©CD-T®   | CO-T           | CR-T   | CU-T          | FE-T  | ng-T | K-T      | LA-T          | LI-T                                  | T-DM                                   | MN-T |
|---------|--------------------------|--------------|----------|----------------|---------|-------|----------------|-----------------|----------------|-----------|----------------|--------|---------------|-------|------|----------|---------------|---------------------------------------|----------------------------------------|------|
|         |                          |              |          |                |         |       |                | 299745976299446 |                | MARCH (M) | 1000000000     |        | 10.0207456468 |       |      |          | 601000 X22 15 |                                       | ////////////////////////////////////// |      |
|         |                          | mg/L         | mg/L     | mg/L           | mg/L    | mg/L  | mg/L           | ∭ mg/L          | mg/L           | mg/L      | mg/L           | mg/L   | mg/L          | mg/L  | mg/L |          | mg/L          | mg/L                                  | mg/L×                                  | mg/L |
| ļ       | 9/25/1998                | <.003        | 0.14     | <.02           | <.05    | 0.18  | 0.001          | <.04            | 198.2          | <.002     | <.005          | 0.036  | 0.035         | 0.27  |      | 9        | <.005         |                                       | 41.6                                   | 5.38 |
|         | 10/2/1998                |              | <u> </u> |                |         | ļ     |                |                 |                |           |                |        |               |       |      |          |               |                                       |                                        |      |
|         | 10/11/1998               |              |          |                |         |       |                |                 |                |           |                |        |               |       |      |          |               |                                       |                                        |      |
|         | 10/14/1998               |              |          |                |         |       |                |                 |                |           |                |        | 1             |       |      |          |               |                                       |                                        |      |
|         | 10/19/1998<br>10/20/1998 | <.003        | 0.28     | <.02           | 0.2     | 0.032 | 0.001          | <.04            | 182.8          | <.002     | 0.013          | <.005  | 0.029         | 0.32  |      | 9        | <.005         |                                       | 38.5                                   | 5.07 |
|         | 10/20/1998               | <.003        | 0.15     |                | - 05    |       |                |                 |                |           |                |        |               |       |      |          |               |                                       |                                        |      |
|         | 1/18/1999                | <.003        | 0.15     | <.005<br><.005 | <.05    | 0.112 | <.001          | <.04            | 230.7          | <.001     | 0.011          | 0.083  | 0.036         | 0.32  | ļ    | 10       | <.005         |                                       | 46.1                                   | 5.73 |
|         | 2/21/1999                | 0.015        | 0.38     | <.005          | 0.39    | 0.038 | <.001<br><.001 | <.04            | 195            | 0.003     | 0.008          | 0.061  | 0.044         | 0.39  |      | 7        | <.005         | [                                     | 39.8                                   | 5.87 |
|         | 3/21/1999                | <.003        | 0.22     | <.005          | <.05    | 0.039 | <.001          | <.04            | 226.3          | <.001     | 0.016          | 0.097  | 0.035         | 0.38  | ļ    | 8        | 0.007         |                                       | 44.6                                   | 6.47 |
|         | 4/20/1999                | <.003        | 0.52     | <.005          | 0.17    | 0.042 | 0.001          | <.04            | 143.5          | 0.004     | <.005<br><.005 | 0.898  | 0.041         | 0.76  | ļ    | 7        | <.005         | · · · · · · · · · · · · · · · · · · · | 37.4                                   | 7.81 |
|         | 5/6/1999                 | <.003        | 0.17     | <.005          | 0.18    | 0.013 | 0.001          | <.04            | 125.1          | 0.001     | 0.012          | <.005  | 0.028         | 0.76  |      | 6        | <.005         |                                       | 31.2                                   | 4.23 |
|         | 5/17/1999                | <0.003       | 0.33     | <0.005         | <0.05   | 0.152 | <.001          | <.04            | 63.8           | <.001     | 0.012          | 0.301  | 0.042         | 3.61  |      | 7        | <.005         |                                       | 19.6                                   | 0.89 |
|         | 5/27/1999                | <.003        | 0.2      | <.005          | 0.05    | 0.127 | 0.001          | <.04            | 87.6           | 0.012     | <.005          | <.005  | 0.042         | 3.12  |      |          | <.005         |                                       | 11.1                                   | 0.52 |
|         | 7/3/1999                 | <.003        | 0.47     | <.005          | 0.53    | 0.035 | <.001          | <.04            | 137.7          | 0.002     | 0.005          | <.005  | 0.045         | 0.89  | [    | 4        | <.005         |                                       | 14.1                                   | 0.86 |
|         | 7/27/1999                | <.003        | 0.66     | <.005          | 0.07    | 0.154 | <.001          | <.04            | 150.6          | <.001     | 0.017          | <.005  | 0.032         | 0.72  |      | 7        | <.005         |                                       | 25.6<br>32                             | 2.87 |
|         | 7/29/1999                | <.0003       | 0.11     | <.002          | 0.02    | 0.076 | <.001          | <.004           | 160.5          | <.0002    | <.001          | <.001  | 0.032         | 0.43  |      | 7.9      | <.005         |                                       | 30.8                                   | 2.87 |
|         | 8/12/1999                | <.003        | <.05     | <.005          | 0.08    | <.002 | 0.002          | <.04            | 177.7          | 0.002     | 0.03           | <.005  | 0.008         | 0.1   |      | <1       | <.001         |                                       | 33                                     | 2.55 |
|         | 9/10/1999                | <.003        | 0.27     | <.005          | <.05    | 0.112 | <.001          | <.04            | 174.7          | 0.001     | 0.012          | <.005  | 0.028         | 0.24  |      | 8        | 0.02          |                                       | 35.4                                   | 3.85 |
|         | 10/29/1999               | <.003        | 0.46     | <.005          | 0.16    | 2.007 | 0.002          | <.04            | 179.5          | <.001     | <.005          | <.005  | 0.033         | 0.36  |      | 4        | <.005         |                                       | 36.3                                   | 7.87 |
|         | 1/26/2000                |              |          |                |         |       |                |                 |                |           |                |        | 1             |       | 1    |          |               |                                       |                                        |      |
|         | 3/25/2000                | <.003        | 0.59     | <.005          | 0.08    | 0.154 | <.001          | <.05            | 206.8          | <.001     | 0.027          | <.005  | 0.007         | 0.19  |      | 12       | <.005         |                                       | 42.1                                   | 6.3  |
|         | 4/27/2000                | <.003        | 0.32     | <.005          | <.05    | 0.139 | 0.002          | <.05            | 166.9          | <.001     | <.005          | <.005  | 0.033         | 0.28  |      | 6        | <.005         |                                       | 34.9                                   | 6.4  |
|         | 5/15/2000                | <.003        | 0.15     | 0.012          | 0.06    | 0.088 | <.001          | <.05            | 49.5           | <.001     | 0.007          | 0.094  | 0.01          | 0.17  |      | 1        | 0.033         |                                       | 7.2                                    | 0.47 |
|         | 5/22/2000                |              | ļ        |                |         |       |                |                 |                |           |                |        |               |       |      |          |               |                                       |                                        |      |
|         | 6/4/2000                 |              |          |                |         |       |                |                 |                |           |                |        |               |       |      |          |               |                                       |                                        | 1    |
|         | 6/4/2000                 |              | 0.9      | <.005          | <.05    | 0.203 | <.001          | <.05            | 119.3          | <.001     | 0.005          | 0.033  | 0.029         | 2.44  |      | 6        | <.005         |                                       | 22.5                                   | 1.29 |
|         | 6/26/2000                | <.003        | 0.2      | <.005          | <.05    | 0.096 | 0.002          | <.05            | 157.4          | <.001     | 0.006          | <.005  | 0.024         | 0.19  |      | 8        | <.005         |                                       | 27.8                                   | 1.55 |
|         | 7/25/2000                | <.003        | 0.11     | <.005          | <.05    | 0.112 | 0.002          | <.05            | 164.2          | 0.004     | 0.022          | <.005  | 0.026         | 0.68  | 1    |          | 0.121         |                                       | 30.7                                   | 2.37 |
|         | 7/28/2000                |              | <u>↓</u> |                |         |       |                |                 |                |           |                |        |               |       |      | -        |               |                                       |                                        | L    |
|         | 8/29/2000                | <.003        | 0.33     | <.005          | 0.06    | 0.082 | <.001          | <.05            | 187.2          | <.001     | 1 005          |        |               |       |      |          |               |                                       |                                        |      |
|         | 8/30/2000                | <b>X.003</b> |          | <.005          | 0.06    | 0.082 | <.001          | <.05            | 187.2          | <.001     | <.005          | <.005  | 0.027         | 0.19  |      | 9        | <.005         |                                       | 37.8                                   | 2.77 |
|         | 9/25/2000                | <0.01        | 0.05     | <0.2           | <0.1    | 0.02  | <0.005         | <0.1            | 191            | <0.001    | <0.01          | <0.01  |               | 0.11  |      |          |               |                                       |                                        |      |
|         | 10/21/2000               |              | 0.44     | <.005          | <.05    | 0.197 | 0.003          | <.05            | 190.8          | 0.001     | 0.009          | <.005  | <0.01         | 0.11  |      | 79       |               | 0.02                                  | 39.8                                   | 4.4  |
|         | 10/28/2000               | 41005        |          | 2.005          | <u></u> | 0.137 | 0.005          | ×.05            | 130.0          | 0.004     | 0.009          | <.005  | 0.039         | 0.89  |      | 9        | <.005         |                                       | 38.3                                   | 4.72 |
|         | 11/13/2000               | <0.003       | 0.08     | <0.005         | 0.26    | 0.076 | <0.001         | <0.05           | 195.2          | <0.001    | <0.005         | <0.005 | <0.002        | 0.11  |      |          | 0.000         |                                       | 45.5                                   |      |
|         | 11/18/2000               | <0.01        | <0.05    | <0.2           | <0.1    | 0.03  | <0.005         | <0.1            | 220            | <0.001    | <0.01          | <0.01  | <0.002        | 0.08  |      | 7        | 0.028         | 0.02                                  | 45.5<br>38.8                           | 3.74 |
|         | 11/28/2000               |              |          |                |         |       |                |                 | 120            | 40.001    |                | ~~     | ~0.01         | 0.00  |      |          |               | 0.02                                  | 38.8                                   |      |
|         | 12/14/2000               | <0.01        | <0.05    | <0.2           | <0.1    | 0.03  | <0.005         | <0.1            | 223            | <0.001    | <0.01          | <0.01  | <0.01         | 0.14  |      | 8        |               | 0.03                                  | 45.6                                   | 5.51 |
|         | 1/13/2001                | <.003        | 0.15     | <.005          | 0.06    | 0,127 | 0.002          | <.05            | 162.2          | <.001     | <.005          | <.005  | 0.035         | 0.48  |      | 8        | <.005         | 0.03                                  | 31.3                                   | 3.57 |
|         | 2/10/2001                | <.003        | 0.29     | <.005          | <.05    | 0.161 | 0.003          | <.05            | 171.7          | <.001     | <.005          | <.005  | 0.028         | 0.33  |      | 10       | <.005         |                                       | 34.1                                   | 3.68 |
|         | 3/10/2001                | <.003        | 0.72     | <.005          | 0.12    | 0.2   | <.001          | <.05            | 179            | <.001     | <.005          | <.005  | 0.02          | 0.07  | i    | 4.38     | <.005         |                                       | 36.84                                  | 4.86 |
|         | 4/16/2001                | <.003        | 0.1      | <.005          | <.05    | 0.046 | <.001          | <.05            | 174.8          | <.001     | <.005          | <.005  | 0.007         | 0.05  |      | <1       | <.005         |                                       | 36.7                                   | 4.64 |
|         | 5/14/2001                | <.003        | 0.39     | 0.012          | <.05    | 0.185 | <.001          | <.05            | 185.5          | <.001     | 0.025          | <.005  | 0.014         | 0.04  |      | 9        | <.005         |                                       | 35.5                                   | 3.41 |
| L       | 6/17/2001                | <.003        | 0.09     | <.005          | 0.11    | 0.142 | <.001          | <.05            | 185.1          | <.001     | <.005          | 0.012  | 0.01          | 0.13  |      | 6        | 0.022         |                                       | 35.4                                   | 1.59 |
|         | 6/25/2001                |              | L        |                |         |       |                |                 |                |           |                |        |               |       |      |          |               |                                       |                                        |      |
| Į       | 7/14/2001                | <.003        | 0.09     | <.005          | 0.28    | 0.188 | <.001          | <.05            | 189.3          | <.001     | 0.007          | 0.013  | <.002         | 0.09  |      | 6        | 0.008         |                                       | 38.7                                   | 3.42 |
|         | 8/14/2001                | <0.003       | 0.08     | <0.005         | <0.05   | 0.169 | <0.001         | <0.05           | 214            | <0.001    | <0.005         | <0.005 | 0.006         | 0.05  |      | 7        | 0.005         |                                       | 48.1                                   | 2.63 |
|         | 8/21/2001                |              |          |                |         |       |                |                 |                |           |                |        |               |       |      |          |               |                                       |                                        |      |
|         | 9/17/2001                | <0.003       | 0.05     | <0.005         | 0.13    | 0.13  | <0.001         | <0.05           | 180.6          | <0.001    | <0.005         | <0.005 | 0.003         | 0.03  |      | 7        | 0.018         |                                       | 42.9                                   | 2.16 |
|         | 10/15/2001<br>11/13/2001 | <0.003       | <0.05    | <0.005         | 0.25    | 0.15  | <0.001         | <0.05           | 189            | <0.001    | 0.007          | <0.005 | 0.006         | <0.01 | L    | 9        | 0.036         |                                       | 44.2                                   | 3.17 |
|         | 12/14/2001               | <0.003       | 0.08     | <0.005         | 0.26    | 0.076 | <0.001         | <0.05           | 195.2          | <0.001    | <0.005         | <0.005 | <0.002        | 0.11  |      | 9        | 0.028         |                                       | 45.5                                   | 3.74 |
|         | 12/14/2001               | <0.001       | 0.08     | <0.005         | 0.09    | 0.021 | 0.001          | <0.05           | 100 0          | <0.001    | 0.007          | 0 011  | 10,000        | 0.05  |      |          |               |                                       |                                        |      |
|         | 1/15/2002                | <0.001       | <0.08    | <0.005         | <0.09   | 0.021 | <0.001         | <0.05           | 189.8<br>186.6 | <0.001    | 0.007          | 0.011  | <0.002        | 0.05  |      | 6        | 0.031         |                                       | 43.4                                   | 3.08 |
|         | 2/12/2002                | <0.001       | <0.05    | 0.01           | <0.05   | 0.154 | <0.001         | <0.05           | 186.6          | <0.001    | 0.006          | <0.005 | 0.003         | 0.08  |      | 9        | 0.024         |                                       | 44.1                                   | 4.06 |
|         | 3/12/2002                | <0.001       | <0.05    | 0.007          | <0.05   | 0.208 | <0.001         | <0.05           | 192.6          | <0.001    | 0.006          | <0.005 | 0.004         | 0.11  |      | 7        | 0.008         |                                       | 39.6                                   | 4.76 |
|         | 4/15/2002                | <0.001       | <0.05    | <0.005         | 0.07    | 0.208 | <0.001         | <0.05           | 192.6          | <0.001    | 0.006          | <0.005 | 0.004         | 0.05  |      | 9        | <0.005        |                                       | 41.4                                   | 4.39 |
|         | 5/13/2002                | <0.001       | <0.05    | <0.005         | 0.05    | 0.095 | <0.001         | <0.05           | 40.2           | <0.001    | <0.005         | 0.005  | 0.003         | <0.01 |      | 9        | 0.008         |                                       | 45                                     | 3.47 |
|         | 6/16/2002                |              | -0.00    | -0.000         | <u></u> |       | -0.001         |                 | 90.4           |           | ~0.003         | 0.003  | 0.003         | 0.01  |      | <u>L</u> | 0.005         |                                       | 3.7                                    | 0.42 |
| •       |                          |              |          |                |         |       |                | <b>I</b>        |                |           |                |        |               |       |      |          |               | l                                     |                                        |      |

| Station      | Date                    | AG-T  | AL-T  | AS-T           | B-T                | вл-т  | BE-T           | BI÷T     | сл-т           | CD-T           | CO-T           | CR-T           | CU-T                                                                                                           | FE-T                 | BG-T                                  | K-T           | LA-T           | LI-T     | HG-T               | MN-T  |
|--------------|-------------------------|-------|-------|----------------|--------------------|-------|----------------|----------|----------------|----------------|----------------|----------------|----------------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------|---------------|----------------|----------|--------------------|-------|
|              | 21.957.351.6597.45      |       |       |                | 0.590 gentester og |       |                | kinonena |                |                |                | SERVICE AND A  | ALC: NO DECISION OF THE OWNER OF | 3 <b>8</b> 482940569 |                                       |               | STATES B       |          | active and a state |       |
| 1/18/19/2018 | 6/16/2002               | mg/L  | mg/L  | mg/L           | mg/L               | mg/L  |                | mg/L     | mg/L           | mg/L           | mg/L           | g/L⊘           | mg/L                                                                                                           | mg/L                 | mg/L                                  | mg/L          | mg/L           | ng/L     | mg/L               | mg/L  |
|              | 7/16/2002               | <0.2  | 0.116 | <0.003         | 0.08               | 0,151 | 0.8            | <0.01    | 175.9          | <0.2           | 0.002          | 0.02           | 0.02                                                                                                           | 0.049                | ļ                                     | 7.5           | <0.001         |          | 38.2               | 1.698 |
|              | 7/16/2002               | 1.3   | 0.096 | 0.007          | 0.06               | 0.131 | 0.5            | <0.01    | 181            | 0.8            | 0.005          | 0.012          | 0.016                                                                                                          | 0.08                 | <u> </u>                              | 8.2           | <0.001         |          | 42.8               | 1.323 |
|              | 8/12/2002               |       |       |                |                    | 0.202 | <u>,,,</u>     |          |                | 0.0            | 0.000          | 0.012          | 0,010                                                                                                          | 0.00                 |                                       | 0.2           | <0.001         |          | 44-8               | 1.323 |
|              | 8/12/2002               | <0.2  | 0.077 | 0.006          | 0.11               | 0.078 | 0.5            | 0.01     | 170.5          | <0.2           | 0.007          | <0.001         | 0.011                                                                                                          | 0.109                |                                       | 9             | 0.002          |          | 48.6               | 2.694 |
|              | 9/16/2002               |       |       |                |                    |       |                |          |                |                |                |                |                                                                                                                |                      |                                       |               |                |          |                    |       |
|              | 9/16/2002               | 0.5   | 0.075 | 0.005          | 0.12               | 0.113 | <0.2           | <0.01    | 192.3          | <0.2           | 0.005          | <0.001         | 0.018                                                                                                          | 0.126                |                                       | 10.2          | <0.001         |          | 47.1               | 2.344 |
|              | 10/15/2002              |       |       |                |                    |       |                |          |                |                |                |                |                                                                                                                |                      |                                       | <del></del>   |                |          |                    |       |
|              | 10/15/2002              | 0.4   | 0.066 | 0.005          | 0.15               | 0.111 | <0.2           | 0.02     | 187.6          | 0.3            | 0.007          | 0.004          | 0.012                                                                                                          | 0.174                |                                       | 9.4           | 0.003          |          | 46.5               | 3.592 |
|              | 11/12/2002              |       |       |                |                    |       |                |          |                |                | 0.00           | 0.004          | 0.011                                                                                                          | 0.1112               |                                       | 2.9           | 0.003          |          | 40.5               | 3.332 |
|              | 11/12/2002              | 0.3   | 0.039 | 0.003          | 0.2                | 0.079 | <0.2           | <0.01    | 205.1          | 0.2            | 0.007          | <0.001         | 0.015                                                                                                          | 0.215                |                                       | 9.9           | 0.001          |          | 48.3               | 4.45  |
|              | 12/10/2002              |       |       |                |                    |       |                |          |                |                |                |                |                                                                                                                |                      |                                       |               |                |          |                    |       |
|              | 12/10/2002              | 0.5   | 0.032 | 0.028          | 0.14               | 0.096 | 0.4            | <0.01    | 186.2          | 0.4            | 0.008          | <0.001         | 0.023                                                                                                          | 0.24                 |                                       | 9.7           | <0.001         |          | 49.7               | 4.461 |
| X13          | 12/15/2002              |       |       |                |                    |       |                |          |                |                |                |                |                                                                                                                |                      |                                       |               |                |          |                    |       |
| ×13          | 1/5/1998                | <.003 | <.05  | <.02           | 0.19               | 0.09  | 0.003          | <.04     | 205.9          | <.002          | <.005          | <.005          | 0.015                                                                                                          | 1 10                 |                                       |               |                |          |                    |       |
|              | 1/12/1998               | <.003 | <.05  | <.02           | <.05               | 0.09  | <.001          | <.04     | 189.3          | <.002          | 0.016          | <.005          | 0.015                                                                                                          | 1.12                 |                                       | 3             | <.005<br><.005 |          | 37.8               | 9.12  |
|              | 1/23/1998               |       |       |                |                    |       |                |          |                |                | 0.010          |                | 01004                                                                                                          | 4.05                 |                                       | <u> </u>      | ~.005          |          | 33.4               | 8.39  |
|              | 2/24/1998               | 0.004 | 0.33  | 0.02           | 0.24               | 0.07  | 0.001          | <.04     | 193.7          | <.002          | 800.0          | 0.007          | 0.049                                                                                                          | 1.54                 |                                       | 4             | 0.021          |          | 37.4               | 8.15  |
|              | 3/13/1998               |       |       |                |                    |       |                |          |                |                |                |                |                                                                                                                |                      |                                       |               |                | <u> </u> |                    |       |
|              | 3/17/1998               |       |       |                |                    |       |                |          |                |                |                |                |                                                                                                                |                      |                                       |               |                |          |                    |       |
|              | 3/17/1998               | <.003 | 0.12  | 0.02           | <.05               | 0.159 | <.001          | <.04     | 201.2          | <.002          | 0.011          | 0.024          | 0.024                                                                                                          | 2.14                 |                                       | 4             | 0.014          |          | 39.2               | 8.27  |
|              | 4/3/1998                | <.003 | 0.14  | <.02           | <.05               | 0.173 | 0.001          | <.04     | 196.8          | <.002          | 0.017          |                |                                                                                                                |                      |                                       |               |                |          |                    |       |
|              | 4/30/1998               | <.003 | 0.14  | <.02           | <.05               | 0.173 | 0.001          | <.04     | 190-9          | <.002          | 0.016          | 0.015          | 0.05                                                                                                           | 1.83                 |                                       | 4             | 0.014          |          | 37.3               | 8.52  |
|              | 5/7/1998                |       |       |                |                    |       |                |          |                |                |                |                |                                                                                                                |                      |                                       |               |                |          |                    |       |
|              | 5/18/1998               |       |       |                |                    |       |                |          |                |                |                |                |                                                                                                                |                      |                                       |               |                |          |                    |       |
|              | 5/18/1998               | <.003 | 0.23  | 0.03           | 0.2                | 0.08  | <.001          | <.04     | 222.7          | <.002          | <.005          | <.005          | 0.041                                                                                                          | 2.05                 |                                       | 5             | <.005          |          | 40.8               | 9.15  |
|              | 6/15/1998               |       |       |                |                    |       |                |          |                |                | ~~~            |                |                                                                                                                |                      |                                       |               |                |          |                    |       |
|              | 6/15/1998               | <.003 | 0.17  | <.02           | 0.06               | 0.145 | 0.002          | <.04     | 216.9          | <.002          | 0.01           | 0.014          | 0.054                                                                                                          | 2.41                 |                                       | 6             | <.005          |          | 39.1               | 8.69  |
|              | 6/30/1998               | <.003 | 0.14  | <.02           | <.05               | 0.202 | 0.001          | <.04     | 218.9<br>200.4 | <.002          | 0.012          | 0.093          | 0.019                                                                                                          | 1.95                 |                                       | 6             | <.005          |          | 42.8               | 7.66  |
| ·            | 8/10/1998               | 0.003 | 0.08  | <.02           | 0.21               | 0.052 | 0.001          | <.04     | 200.4          | <.002          | <.005          | 0.03<br><.005  | 0.046                                                                                                          | 1.52                 |                                       | 5             | 0.011          |          | 37.9               | 7.29  |
|              | 9/7/1998                | 0.000 | 0.20  |                | 0                  | 0.032 | 0.001          | 1,03     | 203.2          | ~.002          | 1.005          | <u> </u>       | 0.058                                                                                                          | 1.21                 |                                       |               | 0.021          |          | 30.0               | /.20  |
|              | 9/25/1998               | 0.004 | 0.16  | <.02           | <.05               | 0,181 | 0.002          | <.04     | 218.5          | <.002          | 0.013          | 0.048          | 0.03                                                                                                           | 1.11                 |                                       | 5             | 0.019          |          | 39.4               | 8.4   |
|              | 10/19/1998              | 0.005 | 0.17  | <.02           | 0.07               | 0.089 | 0.001          | <.04     | 198.2          | <.002          | 0.012          | <.005          | 0.027                                                                                                          | 1.38                 |                                       | 5             | <.005          |          | 36.7               | 7.26  |
|              | 11/13/1998              |       |       |                |                    |       |                |          |                |                |                |                |                                                                                                                |                      |                                       |               |                |          |                    |       |
|              | 11/17/1998              | <.003 | 0.33  | 0.037          | <.05               | 0.186 | <.001          | <.04     | 280.1          | <.001          | 0.012          | 0.036          | 0.038                                                                                                          | 2.5                  |                                       | 7             | <.005          | -        | 51.5               | 9.79  |
|              | 12/15/1998              | <.003 | 0.22  | 0.011          | 0.27               | 0.114 | <.001          | <.04     | 100 0          | 0.000          |                |                | 0.02                                                                                                           |                      |                                       |               |                |          |                    |       |
|              | 1/18/1999               | <.003 | 0.18  | 0.009          | 0.27               | 0.114 | 0.001          | <.04     | 180.6<br>246.9 | 0.003          | <.005<br><.005 | <.005<br>0.106 | 0.03                                                                                                           | 1.66                 |                                       | 4<br>6        | <.005          |          | 33.6               | 7.04  |
|              | 1/27/1999               |       |       | 2.207          |                    | 0.000 | 0.001          |          | ~~~            | 0.003          |                | 0.100          | 0.041                                                                                                          |                      |                                       | <u> </u>      | ~.005          |          | 90.4               | 10,08 |
|              | 2/22/1999               | 0,023 | 0.4   | <.005          | 0.35               | 0.11  | <.001          | <.04     | 258.3          | <.001          | 0.016          | 0.127          | 0.039                                                                                                          | 3.86                 | ···· · ·                              | 6             | <.005          |          | 48.2               | 10.29 |
|              | 3/17/1999               | <.003 | 0.38  | <.005          | 0.19               | 0.101 | <.001          | <.04     | 191.7          | <.001          | <.005          | 0.229          | 0.039                                                                                                          | 1.54                 |                                       | 4             | <.005          |          | 33.8               | 7.32  |
|              | 3/24/1999               |       |       |                |                    |       |                |          |                |                |                |                |                                                                                                                |                      |                                       |               |                |          |                    |       |
|              | 4/3/1999                | <.003 | 0.24  | 0.011          |                    |       |                |          |                | - 0.04         | 0 04           |                |                                                                                                                |                      |                                       |               |                |          |                    |       |
|              | 5/17/1999               | <.003 | 0.16  | 0.011<br><.005 | 0.18               | 0.08  | 0.002          | 0.04     | 225.3<br>214.9 | <.001          | 0.01           | <.005<br><.005 | 0.034                                                                                                          | 2.69                 |                                       | 6             | <.005          |          | 44.7               | 10.1  |
|              | 6/4/1999                | ~,003 | 0.00  | ~.005          | 03                 | 0.147 | 0.005          | ~.04     | 214.7          | ~.001          | ×.005          | ~~~~           | 0.033                                                                                                          | <u> </u>             |                                       | 0             | <.005          |          | 39.5               | 9.34  |
|              | 6/8/1999                |       |       |                |                    |       |                |          |                |                |                |                |                                                                                                                |                      |                                       |               |                |          | -                  |       |
|              | 7/3/1999                | <.003 | 0.53  | <.005          | 0.51               | 0.079 | <.001          | <.04     | 213.4          | <.001          | 0.01           | <.005          | 0.035                                                                                                          | 3.07                 |                                       | 6             | <.005          |          | 41.1               | 9.48  |
|              | 7/27/1999               | <.003 | <.05  | <.005          | 0.18               | 0.189 | 0.005          | <.04     | 207.4          | 0.004          | 0.102          | <.005          | 0.011                                                                                                          | 2.46                 |                                       | 4             | <.005          |          | 42.6               | 9.49  |
|              | 8/12/1999               | <.003 | <.05  | <.005          | 0.16               | 0.183 | <.001          | <.04     | 238.2          | <.001          | 0.03           | <.005          | 0.012                                                                                                          | 2.16                 |                                       | 8             | <.005          |          | 42.9               | 8.2   |
|              | 9/10/1999               | <.003 | 0.25  | <.005          | 0.06               | 0.157 | <.001          | <.04     | 214.3          | <.001          | <.005          | <.005          | 0.026                                                                                                          | 1.51                 |                                       | 6             | 0.016          |          | 40.1               | 9.27  |
|              | 9/28/1999<br>10/29/1999 | <.003 | 0.17  | <.005          | 0.07               | 0.100 | - 001          |          | 104 4          |                |                |                |                                                                                                                |                      |                                       |               |                |          |                    |       |
|              | 11/22/1999              | <.003 | 0.17  | <.005          | 0.07               | 0.189 | <.001<br>0.001 | <.04     | 194.6<br>188.8 | <.001<br><.001 | <.005          | <.005          | 0.003                                                                                                          | 2.31                 |                                       | 4             | <.005          |          | 36.2               | 9.27  |
|              | 12/14/1999              | <.003 | 0.57  | <.005          | <.05               | 0.145 | <.001          | <.04     | 212.8          | <.001          | <.005          | <.005          | 0.049                                                                                                          | 2.3                  |                                       | <u>6</u><br>5 | <.005          |          | 40.6               | 9.59  |
|              | 1/27/2000               | <.003 | 0.31  | <.005          | <.05               | 0.167 | 0.002          | <.05     | 214.1          | 0.004          | 0.018          | <.005          | 0.023                                                                                                          | 1.97                 |                                       | 7             | ₹.005<br>0.019 |          | 35.8               | 8.58  |
|              | 2/28/2000               |       | 0.37  | <.005          | <.05               | 0.151 | <.001          | <.05     | 221.4          | 0.001          | <.005          | 0.118          | 0.665                                                                                                          | 2.39                 | · · · · · · · · · · · · · · · · · · · | 8             | 0.019          |          | 43.6               | 8.56  |
|              |                         |       |       |                |                    |       |                | 1        |                |                |                |                |                                                                                                                |                      |                                       | <u> </u>      |                | ł        | 2010               | 0.00  |

| Station                                                                                                         | Date                  | Ag-T       | AL-T     | <b>A5-T</b>    | B-T                                           | вл-т    | BE-T             | BI-T              | СЛ-Т         | CD-T             | CO-T     | CR-T           | CU-T           | FE-T | HG-T | R-T           | LA-T               | LI-T          | MG-T  | T-IM  |
|-----------------------------------------------------------------------------------------------------------------|-----------------------|------------|----------|----------------|-----------------------------------------------|---------|------------------|-------------------|--------------|------------------|----------|----------------|----------------|------|------|---------------|--------------------|---------------|-------|-------|
| (的)(学校)(特殊)(子                                                                                                   | NA CARACT             | AN KANARAN |          |                | 128952072698                                  |         | WARNESS AND      |                   |              |                  |          |                |                |      |      | Second Second | сураларын<br>Калар | ATRONOMIC AND | NG-1  |       |
| SI 6/063/0267/1-0                                                                                               |                       | mg/L       | mg/L     | mg/L           | ाषु/८                                         | mg/L    | mg/L             | <sup>™</sup> mg/L | ر / ۲۵       | mg/L             | mg/L     | ₩Q/L           | mg/L           | mg/L | mg/L | mg/L          | mg/L®              | mg/L          | mg/L  | mg/L  |
| -                                                                                                               | 3/23/2000             | <.003      | 0.55     | <.005          | 0.13                                          | 0.231   | <.001            | <.05              | 224.7        | <.001            | 0.047    | <.005          | 0.007          | 1.71 |      | 11            | <.005              |               | 42.3  | 10.67 |
| <b>├</b> ──┼                                                                                                    | 5/15/2000             | <.003      | 0.37     | <.005<br>0.025 | <.05                                          | 0.206   | 0.002            | <.05              | 212.9<br>245 | <.001<br><.001   | 0.014    | <.005<br>0.185 | 0.034          | 2.01 |      | 6             | <.005              |               | 42.2  | 10.88 |
|                                                                                                                 | 6/20/2000             |            | 0.32     | 0.025          | <u>, , , , , , , , , , , , , , , , , , , </u> | 0.175   | ~.001            | ×.05              | 243          | C.001            | 0.029    | 0.185          | 0.022          | 1.88 |      | 6             | 0.052              |               | 48.4  | 10.32 |
|                                                                                                                 | 6/20/2000             | <.003      | 0.35     | <.005          | <.05                                          | 0.202   | 0.003            | <.05              | 193.4        | <.001            | 0.009    | <.005          | 0.029          | 1.51 |      | 7             | <.005              |               | 41.1  | 8.32  |
|                                                                                                                 | 6/26/2000             | <.003      | 0.24     | <.005          | 0.05                                          | 0.108   | 0.003            | <.05              | 227          | 0.002            | <.005    | 0.063          | 0.031          | 1.36 |      | 8             | <.005              |               | 41.9  | 10.14 |
|                                                                                                                 | 7/19/2000             |            |          |                |                                               |         |                  |                   |              |                  |          |                |                |      |      |               |                    |               |       | 10.14 |
| [                                                                                                               | 7/25/2000             |            | 0.18     | <.005          | <.05                                          | 0.152   | 0.003            | <.05              | 239.3        | 0.009            | 0.034    | <.005          | 0.033          | 2.37 |      | 8             | 0.091              |               | 45.4  | 11.18 |
|                                                                                                                 | 7/28/2000<br>8/3/2000 |            | <b>.</b> |                |                                               |         |                  |                   |              |                  |          |                |                |      |      |               |                    |               |       |       |
| <u>├</u> ──- <u>†</u>                                                                                           | 8/10/2000             |            |          |                |                                               |         |                  |                   |              |                  |          |                |                |      |      |               |                    |               |       |       |
| h                                                                                                               | 8/18/2000             |            | 1        |                |                                               | · · · · |                  |                   |              |                  |          |                |                |      |      |               |                    |               |       |       |
|                                                                                                                 | 8/24/2000             |            | <u> </u> |                |                                               | ·       |                  |                   |              |                  |          |                |                |      |      |               |                    |               |       |       |
|                                                                                                                 | 8/29/2000             |            | 0.38     | <.005          | <.05                                          | 0.128   | 0.001            | <.05              | 263.1        | <.001            | <.005    | <.005          | 0.029          | 1.52 |      | 8             | <.005              |               | 47.2  | 10.58 |
|                                                                                                                 | 9/8/2000              |            |          |                |                                               |         |                  |                   |              |                  |          |                | 0.025          |      |      | ¢             | <b>C.005</b>       |               | 47.2  | 10.58 |
|                                                                                                                 | 9/12/2000             |            |          |                |                                               |         |                  |                   | •••          |                  |          |                |                |      |      |               |                    |               |       |       |
| L                                                                                                               | 9/25/2000             |            | <0.05    | <0.2           | <0.1                                          | 0.06    | <0.005           | <0.1              | 237          | <0.001           | 0.01     | <0.01          | <0.01          | 2.45 |      | 5             |                    | 0.01          | 44.9  | 10.1  |
|                                                                                                                 | 10/19/2000            | <.003      | 0.44     | <.005          | <.05                                          | 0.23    | 0.003            | <.05              | 200.7        | <.001            | 0.009    | <.005          | 0.048          | 4.5  |      | 8             | <.005              |               | 38.6  | 8.59  |
|                                                                                                                 | 10/28/2000            | <0.003     | <0.05    | 0.025          | 0.07                                          | 0.101   |                  |                   |              |                  |          |                |                |      |      |               |                    |               |       |       |
|                                                                                                                 | 11/18/2000            | <0.01      | 0.06     | <0.2           | <0.1                                          | 0.151   | <0.001           | <0.05             | 235.7<br>269 | 0.001            | 0.009    | <0.005         | <0.002         | 1.96 |      | 7             | 0.037              |               | 46.5  | 14.17 |
|                                                                                                                 | 12/14/2000            | <0.01      | <0.05    | <0.2           | <0.1                                          | 0.08    | <0.005           | <0.1              | 257          | <0.001<br><0.001 | 0.01     | <0.01          | <0.01<br><0.01 | 2.51 |      | 6             |                    | 0.01          | 45.3  | 11.4  |
|                                                                                                                 | 1/13/2001             |            | 0.23     | <.005          | 0.07                                          | 0.167   | 0.003            | <.05              | 215.4        | <.001            | 0.031    | <.005          | 0.044          | 2.55 |      | 6<br>8        | 0.031              | 0.02          | 45.3  | 10.1  |
|                                                                                                                 | 2/10/2001             | <.003      | 0.16     | <.005          | 0.06                                          | 0.193   | 0.003            | <.05              | 211.7        | <.001            | <.005    | <.005          | 0.048          | 2.95 |      | 10            | <.005              |               | 41.1  | 9.94  |
|                                                                                                                 | 3/1/2001              |            |          |                |                                               |         |                  |                   |              |                  |          |                |                |      |      |               |                    |               | *0    | 3.57  |
|                                                                                                                 | 3/10/2001             | <.003      | 0.81     | <.005          | 0.1                                           | 0.24    | <.001            | <.05              | 222          | <.001            | <.005    | <.005          | 0.02           | 2.28 |      | 2.7           | <.005              |               | 42.24 | 12.08 |
|                                                                                                                 | 3/15/2001             |            |          |                |                                               |         |                  |                   |              |                  |          |                |                |      |      |               |                    |               |       |       |
|                                                                                                                 | 3/27/2001 4/5/2001    |            |          |                |                                               |         |                  |                   |              |                  |          |                |                |      |      |               |                    |               |       |       |
|                                                                                                                 | 4/11/2001             | -          |          |                | ļ                                             |         |                  |                   |              |                  |          |                |                |      |      |               |                    |               |       |       |
| -                                                                                                               | 4/16/2001             |            | 0.16     | <.005          | <.05                                          | 0.158   | <.001            | <.05              | 230.3        | <.001            | <.005    | <.005          | 0.012          |      |      |               |                    |               |       |       |
|                                                                                                                 | 4/23/2001             |            | 0.10     | 1.005          | ~.05                                          | 0.130   | <.001            | ~~~~              | 230.3        | <.001            | <u> </u> | <.005          | 0.012          | 2.49 |      | <1            | <.005              |               | 43.6  | 12.78 |
|                                                                                                                 | 4/30/2001             |            |          |                |                                               |         |                  |                   |              |                  |          |                |                |      |      |               |                    |               |       |       |
|                                                                                                                 | 5/8/2001              |            |          |                |                                               |         |                  |                   |              |                  |          |                |                |      |      |               |                    |               |       |       |
|                                                                                                                 | 5/14/2001             | <.003      | 0.47     | <.005          | <.05                                          | 0.214   | <.001            | <.05              | 228.3        | <.001            | <.005    | <.005          | 0.009          | 1.8  |      | 5             | <.005              |               | 42.4  | 10.56 |
| J                                                                                                               | 5/23/2001             |            | Į        |                |                                               |         |                  |                   |              |                  |          |                |                |      |      |               |                    |               |       |       |
|                                                                                                                 | 5/30/2001             |            |          |                |                                               |         |                  |                   |              |                  |          |                |                |      |      |               |                    |               |       |       |
|                                                                                                                 | 6/8/2001              |            | ·        |                |                                               |         |                  |                   |              |                  |          |                |                |      |      |               |                    |               |       |       |
|                                                                                                                 | 6/17/2001             | <.003      | 0.14     | <.005          | 0.1                                           | 0.196   | <.001            | <.05              | 224.6        | <.001            | 0.011    | 0,005          | 0.038          | 2.43 |      |               |                    |               |       |       |
| -                                                                                                               | 6/21/2001             | 4.005      | 0.14     | <.005          | 0.1                                           | 0.190   | 1.001            | ×.05              | 224.0        | <.001            | 0.011    | 0.005          | 0.038          | 2.43 |      | 6             | 0.04               |               | 43.3  | 6.34  |
|                                                                                                                 | 6/29/2001             |            |          |                |                                               |         |                  |                   |              |                  |          |                |                | -    |      |               |                    |               |       |       |
|                                                                                                                 | 7/14/2001             | <.003      | 0.09     | <.005          | 0.17                                          | 0.226   | <.001            | <.05              | 203.8        | <.001            | 0.01     | 0.012          | 0.002          | 1.23 |      | 5             | 0.015              |               | 39.9  | 9.7   |
|                                                                                                                 | 8/14/2001             | <0.003     | 0.07     | <0.005         | <0.05                                         | 0.272   | <0.001           | <0.05             | 238.9        | <0.001           | 0.011    | <0.005         | 0.008          | 2.29 |      | 6             | 0.009              |               | 51.2  | 11.77 |
| <b>├</b> ──── <del>├</del>                                                                                      | 9/12/2001             |            | I        |                |                                               |         |                  |                   |              |                  |          |                |                |      |      |               |                    |               |       |       |
| <b>├</b> ─── <del>↓</del>                                                                                       | 9/17/2001             | <0.003     | <0.05    | <0.005         | <0.05                                         | 0.164   | <0.001           | <0.05             | 214.1        | <0.001           | 0.012    | <0.005         | <0.002         | 2.52 |      | 6             | 0.022              |               | 45.7  | 13.63 |
| <b>├├</b> :                                                                                                     | 9/24/2001             | <0.003     | <0.05    | <0.005         | 0.18                                          | 0.186   | <0.001           | <0.05             | 230          | <0.001           | 0.014    | <0.005         | <0.002         |      |      |               |                    |               |       |       |
|                                                                                                                 | 11/13/2001            | <0.003     | <0.05    | 0.025          | 0.07                                          | 0.186   | <0.001           | <0.05             | 230          | 0.001            | 0.014    | <0.005         | <0.002         | 1.53 |      | 7             | 0.035              |               | 47.8  | 14.32 |
|                                                                                                                 | 12/8/2001             |            |          |                |                                               |         |                  |                   | ~~~~         | 0.001            |          | -0.005         | -0.002         | 4.70 |      | ··· · · ·     | 0.037              |               | 46.5  | 14.17 |
|                                                                                                                 | 12/14/2001            |            |          |                |                                               |         |                  |                   |              |                  |          |                |                |      |      |               |                    |               |       |       |
|                                                                                                                 | 12/15/2001            | <0.001     | <0.05    | 0.022          | 0.07                                          | 0.074   | 0.001            | <0.05             | 243          | <0.001           | 0.018    | 0.013          | <0.002         | 2.86 |      | 5             | 0.06               |               | 47.8  | 11.96 |
|                                                                                                                 | 12/20/2001            |            |          |                |                                               |         |                  |                   |              |                  |          |                |                |      |      |               |                    |               |       |       |
|                                                                                                                 | 12/28/2001            | -0 -0.1    |          |                |                                               |         |                  |                   |              |                  |          | _              |                |      |      |               | 1                  |               |       |       |
|                                                                                                                 | 1/15/2002             |            | <0.05    | 0.011          | <0.05                                         | 0.225   | <0.001           | <0.05             | 199.9        | <0.001           | 0.007    | <0.005         | 0.003          | 2.31 |      | 7             | 0.022              |               | 42.8  | 9.36  |
| <u>├</u>                                                                                                        | 3/12/2002             |            | <0.05    | <0.005         | <0.05                                         | 0.188   | <0.001<br><0.001 | <0.05             | 183.8        | <0.001           | <0.005   | <0.005         | 0.009          | 3.08 |      | 6             | 0.013              |               | 35    | 6.97  |
|                                                                                                                 | 4/15/2002             |            | <0.05    | <0.005         | <0.05                                         | 0.129   | <0.001           | <0.05             | 211.4        | <0.001           | 0.007    | <0.005         | <0.002         | 2.52 |      | 6             | <0.005             |               | 39.6  | 9.64  |
|                                                                                                                 | 5/13/2002             |            | <0.05    | <0.005         | <0.05                                         | 0.134   | <0.001           | <0.05             | 242.4        | <0.001           | 0.007    | 0.019          | <0.003         | 2.34 |      | 7             | 0.006              |               | 40.2  | 9.58  |
|                                                                                                                 | 6/16/2002             |            |          |                |                                               |         |                  |                   |              |                  |          |                |                | 2.24 |      | ··· '         | 0.013              |               | 42.7  | 11.35 |
| Luna and a second se |                       | 1.6        | 0.062    | <0.003         | <0.05                                         | 0.178   | 0.7              | <0.01             |              |                  |          |                |                |      |      | 5.5           |                    |               |       |       |

| Station       | Date       | AG-T               | AL-T          | А8-Т           | в-т            | BA-T         | BE-T               | BI-T       | сл-т                    | CD-T           | CO-T          | CR-T              | CU-T            | FE-T         | EG-T                                    | K-T                 | LA-T                | LI-T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MG-T                      | réasile and set |
|---------------|------------|--------------------|---------------|----------------|----------------|--------------|--------------------|------------|-------------------------|----------------|---------------|-------------------|-----------------|--------------|-----------------------------------------|---------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------|
| ////sidefates | S. SARAN   | (10) - HARRING BAR | 1497828300282 | ALCH MARK MARK | 85510891198046 | 14.4 (A. 14) | 10/10/2010/00/2010 | HOME AND A | NAME AND DESCRIPTION OF |                | 1002003-00003 | 10000000000000000 | 101106/09/07/06 | ATM AND TO D | 120030000000000000000000000000000000000 | VANUS KASEDISGS     | MA-1                | And the second sec | DG-T                      | MN-T            |
|               |            | mg/L               | mg/L          | mg/L           | mg/L           | mg/L         | mg/L               | mg/L       | ₩ <b>mg/L</b>           | mg/L           | mg/L          | mg/L              | mg/L            | mg/L         | mg/L                                    | mg/L                | mg/L                | mg/L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | mg/L                      |                 |
|               | 7/16/2002  |                    |               |                |                |              |                    |            |                         |                |               |                   |                 |              | and way and a second second             | 1044 IN 144 7. A 14 | 999910 4419 7-13-02 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 26908 30 <b>0 V 19</b> 99 | mg/L            |
|               | 7/16/2002  | 1.3                | 0.112         | 0.012          | 0.06           | 0.161        | 0.6                | <0.01      | 237                     | <0.2           | 0.012         | 0.013             | 0.016           | 0.819        | [                                       | 6.5                 | <0.001              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 44.6                      | 9.851           |
| L             | 8/12/2002  |                    |               |                |                |              |                    |            |                         |                |               |                   |                 |              | 1                                       |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           | 2.001           |
| L             | 8/12/2002  | <0.2               | 0.115         | 0.04           | 0.08           | 0.113        | <0.2               | <0.01      | 236.6                   | <0.2           | 0.012         | 0.002             | 0.009           | 1.417        | 1                                       | 6.6                 | <0.001              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 45.7                      | 9.939           |
|               | 9/5/2002   |                    |               |                |                |              |                    |            |                         |                |               |                   |                 |              | 1                                       |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
| L             | 9/5/2002   |                    |               |                |                |              |                    | :          |                         |                |               |                   |                 |              | 1                                       |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
|               | 9/12/2002  |                    |               |                |                |              |                    |            |                         |                |               |                   |                 |              |                                         |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
|               | 9/12/2002  |                    |               |                |                |              |                    |            |                         |                |               |                   |                 |              |                                         |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
| ļ             | 9/16/2002  |                    |               |                |                |              |                    |            |                         |                |               |                   |                 |              | L                                       |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
| }             | 9/16/2002  |                    | 0.059         | 0.006          | 0.1            | 0.149        | 0.3                | <0.01      | 234.1                   | 0.2.           | 0.009         | <0.001            | 0.014           | 2.301        |                                         | 8.1                 | <0.001              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 46.8                      | 9.398           |
| [             | 9/27/2002  |                    |               |                |                |              |                    |            |                         |                |               |                   |                 |              |                                         | 1                   |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
|               | 9/29/2002  |                    |               |                |                |              |                    |            |                         |                |               |                   |                 |              |                                         |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
|               | +          |                    |               |                |                |              |                    |            |                         |                |               |                   |                 |              |                                         |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
| <u> </u>      | 10/3/2002  |                    |               |                |                |              |                    |            |                         |                |               |                   |                 |              |                                         |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
|               | 10/12/2002 |                    |               |                |                |              |                    |            |                         |                |               |                   |                 |              |                                         |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
|               | 10/12/2002 |                    |               |                |                |              |                    |            |                         |                |               |                   | ļ               |              |                                         |                     | L                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
|               | 10/15/2002 |                    |               |                |                |              |                    |            |                         |                |               |                   | <u> </u>        |              |                                         |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
|               | 10/15/2002 | 0.6                | 0.034         | 0.006          | 0.13           | 0.166        | <0.2               | 0.02       | 107.7                   |                | 0 00-         |                   |                 |              |                                         |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
|               | 10/21/2002 |                    | 0.034         | 0.000          | 0.13           | 0.100        | <u> </u>           | 0.02       | 194.1                   | <0.2           | 0.005         | 0.002             | 0.013           | 1.359        |                                         | 6.3                 | 0.002               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 37.8                      | 7.224           |
|               | 10/21/2002 | 1                  |               |                |                |              |                    |            |                         |                |               |                   |                 |              | l                                       |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
|               | 10/29/2002 |                    |               |                |                |              |                    |            |                         |                |               |                   |                 |              | Į                                       |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
|               | 10/29/2002 |                    |               |                |                |              |                    |            |                         |                |               |                   |                 |              |                                         |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
|               | 11/5/2002  |                    |               |                |                |              |                    |            |                         |                |               |                   |                 |              |                                         |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
|               | 11/12/2002 |                    |               |                |                |              |                    |            |                         |                |               |                   |                 |              |                                         |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
|               | 11/12/2002 |                    | 0.033         | 0.005          | 0.15           | 0.13         | 0.3                | <0.01      | 246.5                   | <0.2           | 0.012         | 0.001             | 0.014           | 2.237        |                                         |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
|               | 11/19/2002 |                    |               |                | 0110           | 0.15         |                    | ~0.01      | 240.5                   | <b>NO.2</b>    | 0.012         | 0.001             | 0.014           | 2.237        |                                         | 8.1                 | <0.001              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 46.9                      | 10.628          |
|               | 11/26/2002 |                    |               |                |                |              |                    |            |                         |                |               |                   |                 |              |                                         |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
|               | 12/3/2002  |                    |               |                |                |              |                    |            |                         |                |               |                   |                 |              |                                         |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
|               | 12/10/2002 |                    | 1             |                |                |              |                    |            |                         |                |               |                   |                 |              |                                         |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
|               | 12/10/2002 | 0.4                | 0.023         | 0.041          | 0.13           | 0.14         | 0.5                | <0.01      | 220.6                   | <0.2           | 0.009         | <0.001            | 0.023           | 2.074        |                                         | 7.9                 | <0.001              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 48.4                      | 9.938           |
|               | 12/15/2002 |                    |               |                |                |              |                    |            |                         |                |               |                   | 0.025           |              |                                         | 7.5                 | <u></u>             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 48.4                      | 9.938           |
|               | 12/17/2002 | 1                  |               |                |                |              |                    |            |                         |                |               |                   |                 |              |                                         |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
|               | 12/24/2002 |                    |               |                |                |              |                    |            |                         |                |               |                   |                 |              |                                         |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
|               | 12/31/2002 |                    |               |                |                |              |                    |            |                         |                |               |                   |                 |              |                                         |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
| X14           |            |                    |               |                |                |              |                    |            |                         |                |               |                   |                 |              | 1                                       |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
|               | 1/12/1998  |                    | <.05          | <.02           | <.05           | 0.118        | <.001              | <.04       | 108.4                   | <.002          | <.005         | <.005             | 0.005           | 0.35         |                                         | 2                   | <.005               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 18.5                      | 1.37            |
|               | 2/24/1998  |                    | 0.24          | <.02           | 0.26           | 0.061        | <.001              | <.04       | 72.5                    | <.002          | <.005         | 0.008             | 0.011           | 0.4          |                                         | 1                   | <.005               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 14.8                      | 1.47            |
| <u></u>       | 3/17/1998  |                    | <.05          | <.02           | <.05           | 0.138        | <.001              | <.04       | 77.2                    | <.002          | <.005         | 0.013             | 0.018           | 0.33         |                                         | <1                  | <.005               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 15.6                      | 1.6             |
|               | 4/13/1998  | <.003              | 0.05          | <.02           | <.05           | 0.135        | <.001              | <.04       | 68                      | <.002          | <.005         | 0.01              | 0.033           | 0.2          |                                         | 1                   | <.005               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 13.5                      | 1.48            |
|               | 4/16/1998  |                    |               |                |                |              |                    | ļ          |                         |                |               |                   |                 |              |                                         |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
|               | 4/22/1998  |                    |               |                |                |              |                    | L          |                         |                |               |                   | I               |              |                                         |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
|               | 4/24/1998  |                    |               |                |                |              |                    |            |                         |                |               |                   |                 |              |                                         |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
|               | 4/26/1998  |                    |               |                |                |              |                    |            |                         |                |               |                   |                 |              |                                         |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
|               | 4/30/1998  |                    | 0.05          |                | 0.15           | A 655        |                    | <u> </u>   |                         |                |               |                   |                 |              |                                         |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
|               | 6/15/1998  |                    | 0.25          | <.02           | 0.16           | 0.039        | <.001              | <.04       | 24.8                    | <.002          | <.005         | <.005             | 0.027           | 0.52         |                                         | 2                   | <.005               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5.4                       | 0.31            |
|               | 6/19/1998  | <.003              | <.05          | <.02           | <.05           | 0.11         | <.001              | <.04       | 38.1                    | <.002          | <.005         | <.005             | 0.03            | 0.3          |                                         | 1                   | 0.01                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 7.3                       | 0.38            |
|               | 6/20/1998  | <.003              | - 05          | ~ ^ ^ >        |                | 0.100        |                    |            |                         |                |               |                   |                 |              |                                         |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
|               | 6/21/1998  | <.003              | <.05<br><.05  | <.02<br><.02   | <.05           | 0.109        | <.001              | <.04       | 27.8                    | <.002          | <.005         | 0.043             | 0.029           | 0.16         |                                         | <1                  | 0.006               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5.9                       | 0.29            |
|               | 6/21/1998  |                    | <.05          | <.02           |                |              | <.001              | <.04       | 29.3                    | <.002          | <.005         | 0.043             | 0.031           | 0.19         |                                         | 1                   | 0.007               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6.4                       | 0.32            |
|               | 7/21/1998  |                    | <.05          | <.02           | <.05           | 0.12         | <.001              | <.04       | 29.3                    | <.002          | <.005         | 0.043             | 0.031           | 0.19         |                                         | 1                   | 0.007               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6.4                       | 0.32            |
|               | 8/4/1998   | ~.003              | <u> </u>      | <.UZ           | <.05           | 0.124        | <.001              | <.04       | 52.1                    | <.002          | <.005         | 0.033             | 0.035           | 0.41         |                                         | 2                   | 0.008               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 11                        | 0.72            |
|               | 8/10/1998  | <.003              | 0.37          | - 02           |                | 0.03         | . 0.01             |            |                         |                |               |                   |                 |              |                                         |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |
|               | 9/25/1998  |                    | 0.37          | <.02           | 0.29           | 0.03         | <.001              | <.04       | 76.3                    | <.002          | <.005         | <.005             | 0.09            | 0.57         |                                         | 4                   | <.005               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 15.2                      | 1.02            |
|               | 10/19/1998 |                    | 0.08          |                | <.05           | 0.148        | <.001              | <.04       | 47.7                    | <.002          | <.005         | 0.02              | 0.018           | 0.11         |                                         | 2                   | <.005               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 9.8                       | 0.7             |
|               | 11/17/1998 |                    | 0.11          | <.02           | 0.21           | 0.059        | <.001              | <.04       | 55.6                    | <.002          | <.005         | <.005             | 0.016           | 0.38         |                                         | 2                   | <.005               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 11.8                      | 0.9             |
|               | 12/21/1998 |                    | 0.11          | 0.01           | 0.31           | 0.178        | <.001              | <.04       | 99.9                    | <.001          | <.005         | 0.045             | 0.024           | 0.5          |                                         | 4                   | <.005               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 20                        | 1.65            |
|               | 1/18/1999  |                    | 0.15          | <.005          | 0.31           | 0.09         | <.001              | <.04       | 105.7                   | 0.007          | <.005         | 0.013             | 0.028           | 0.39         |                                         | 3                   | <.005               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 20.6                      | 2.57            |
|               | 2/22/1999  |                    | 0.12          | <.005          | 0.32           | 0.09         | <.001              | <.04       | 125.3                   | 0.002<br><.001 | <.005         | 0.046             | 0.035           | 0.46         |                                         | 3                   | <.005               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 23.2                      | 2.61            |
|               |            |                    | 0.28          | <.005          | 0.18           | 0.085        | <.001              | <.04       | 125.3                   | <.001          | <.005         | <.005<br>0.301    | 0.022           | 0.53         |                                         | 3                   | <.005               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 24.4<br>22.3              | 3.04            |
|               | 3/17/1999  |                    |               |                |                |              |                    |            |                         |                |               |                   |                 |              |                                         |                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |                 |

| Station  | Date           | AG-T             | AL-T  | A8-T   | B-T   | BA-T    | BET                                                | BI-T      | CA-T         | CD-T        | CO-T    | CR-T   | CU-T   | FE-T  | Linear and an and an and and and and an and an and an and an and an | 0092280    | 2004/04/2 <b></b> 2004-04/2 | historia                              |                    | 100220000-a0000000 |
|----------|----------------|------------------|-------|--------|-------|---------|----------------------------------------------------|-----------|--------------|-------------|---------|--------|--------|-------|---------------------------------------------------------------------------------------------------------|------------|-----------------------------|---------------------------------------|--------------------|--------------------|
| SAMAAN   | SALESSAN STAR  |                  |       |        |       | 200 - L | STATISTICS AND |           | <u> </u>     | 2000 CD-1 2 | C0-1    | CR-1   | CD-1   | FE-T  | RG-T                                                                                                    | <b>K-T</b> | LA-T                        | LI-T                                  | Mg-T               | m-T                |
| 12222032 | 14661346609    | mg/L             | mg/L  | mg/L   | mg/L  | mg/L    | mg/L                                               | mg/L      | mg/L         | mg/L        | mg/L    | mg/L   | mg/L   | mg/L  | mg/L                                                                                                    | mg/L       |                             | 2009997230990 (3899)                  |                    |                    |
|          | 4/20/1999      | <.003            | 0.14  | <.005  | 0.25  | 0.08    | <.001                                              | <.04      | 89.2         | <.001       | <.005   | <.005  | 0.02   | 0.48  | 27.089 <b>mU 1 13</b> .20                                                                               | 2          | mg/L<br><.005               | mg/L                                  | mg/L               | mg/L               |
| <u>.</u> | 5/17/1999      | <.003            | 0.33  | <.005  | <.05  | 0.131   | 0.002                                              | <.04      | 18.3         | 0.003       | <.005   | <.005  | 0.022  | 1.06  |                                                                                                         | 2          | <.005                       |                                       | <u>19.1</u><br>3.8 | 1.94               |
|          | 6/25/1999      |                  |       |        |       |         |                                                    |           |              | 0.005       |         | 1      | 0.022  | 1.00  |                                                                                                         | <u> </u>   | <.005                       |                                       |                    | 0.24               |
|          | 7/3/1999       | <.003            | 0.45  | <.005  | 0.33  | 0.054   | <.001                                              | 0.04      | 30.8         | 0.003       | <.005   | <.005  | 0.023  | 1,19  |                                                                                                         | 1          | <.005                       |                                       | 7.6                | 0.00               |
|          | 7/27/1999      | <.003            | 0.46  | <.005  | 0.08  | 0.069   | 0.001                                              | <.04      | 23.2         | 0.005       | 0.042   | <.005  | 0.005  | 1.05  |                                                                                                         | <1         | <.005                       |                                       | 6.1                | 0.26               |
|          | 7/29/1999      |                  | 1     |        |       |         |                                                    |           |              |             |         | 1.005  | 0.000  |       |                                                                                                         | ~1         |                             |                                       | 0.1                | 0.23               |
|          | 8/12/1999      | <.003            | <.05  | <.005  | 0.09  | 0.087   | <.001                                              | <.04      | 61.6         | <.001       | 0.021   | <.005  | 0.005  | 0.23  | 1                                                                                                       | 1          | <.005                       |                                       | 12.2               | 0.68               |
|          | 8/31/1999      |                  |       |        |       |         |                                                    |           |              |             |         |        |        |       |                                                                                                         |            | ~.005                       |                                       | 16.4               | 0.08               |
|          | 9/10/1999      | <.003            | 0.15  | <.005  | <.05  | 0.13    | <.001                                              | <.04      | 52.9         | 0.003       | <.005   | <.005  | 0.015  | 0.24  | [                                                                                                       | 2          | 0.006                       |                                       | 11.1               | 0.83               |
|          | 10/29/1999     | <.003            | 0.06  | <.005  | <.05  | 0.146   | <.001                                              | <.04      | 43.2         | <.001       | <.005   | <.005  | <.002  | 0.32  |                                                                                                         | 2          | <.005                       | ł                                     | 9.1                | 0.66               |
|          | 11/22/1999     | <.003            | 0.13  | <.005  | 0.1   | 0.165   | <.001                                              | 0.05      | 51.9         | <.001       | <.005   | <.005  | 0.027  | 0.46  | i – I                                                                                                   | 1          | <.005                       | +                                     | 12.3               | 0.00               |
|          | 12/14/1999     | <.003            | 0.33  | <.005  | <.05  | 0.167   | <.001                                              | <.04      | 71.4         | <.001       | 0.015   | <.005  | 0.03   | 0.76  |                                                                                                         | 6          | <.005                       |                                       | 13.3               | 1.2                |
|          | 1/27/2000      | <.003            | 0.2   | <.005  | <.05  | 0.166   | 0.001                                              | <.05      | 97.7         | 0.007       | <.005   | <.005  | 0.027  | 0.48  |                                                                                                         | 4          | 0.036                       |                                       | 19.7               | 2.02               |
|          | 2/28/2000      | <.003            | 0.24  | <.005  | <.05  | 0.143   | <.001                                              | <.05      | 91.5         | <.001       | 0.007   | 0.016  | 0.032  | 0.55  |                                                                                                         | 4          | 0.011                       | · · · · · · · · · · · · · · · · · · · | 21.4               | 1.81               |
|          | 3/23/2000      | <.003            | 0.27  | <.005  | 0.14  | 0.201   | <.001                                              | <.05      | 99.5         | 0.003       | 0.043   | 0.006  | 0.009  | 0.26  |                                                                                                         | 7          | 0.009                       |                                       | 20                 | 2.38               |
|          | 4/27/2000      | <.003            | 0.25  | <.005  | <.05  | 0.193   | 0.001                                              | <.05      | 113.3        | <.001       | 0.005   | <.005  | 0.026  | 0.42  |                                                                                                         | 4          | <.005                       | 1                                     | 23.8               | 3.52               |
|          | 5/15/2000      | <.003            | 0.25  | 0.022  | <.05  | 0.109   | <.001                                              | <.05      | 37.3         | <.001       | 0.014   | 0.148  | 0.008  | 0.73  |                                                                                                         | 2          | <.005                       |                                       | 7.8                | 0.51               |
|          | 6/26/2000      | <.003            | 0.11  | <.005  | <.05  | 0.102   | 0.001                                              | <.05      | 41.7         | <.001       | 0.007   | <.005  | 0.008  | 0.21  |                                                                                                         | 4          | <.005                       |                                       | 8.3                | 0.46               |
|          | 7/25/2000      | <.003            | <.05  | <.005  | <.05  | 0.125   | 0.001                                              | <.05      | 59.2         | 0.004       | 0.009   | <.005  | 0.016  | 0.58  | ĺ                                                                                                       | 4          | 0.09                        |                                       | 12.2               | 0.69               |
| 1        | 8/29/2000      | <.003            | 0.27  | <.005  | <.05  | 0.116   | <.001                                              | <.05      | 39           | <.001       | <.005   | <.005  | 0.004  | 0.35  |                                                                                                         | 2          | <.005                       | 1                                     | 8.5                | 0.37               |
|          | 9/25/2000      | <0.01            | 0.06  | <0.2   | <0.1  | 0.04    | <0.005                                             | <0.1      | 28.6         | <0.001      | <0.01   | <0.01  | <0.01  | 0.22  |                                                                                                         | <2         |                             | <0.01                                 | 6.5                | 0,114              |
|          | 10/28/2002     |                  |       |        |       |         |                                                    |           |              |             |         |        |        |       |                                                                                                         |            |                             | 1                                     |                    | í                  |
| ļ        | 10/29/2000     | <.003            | 0.24  | <.005  | <.05  | 0.231   | 0.002                                              | <.05      | 44.7         | <.001       | <.005   | <.005  | 0.024  | 0.75  |                                                                                                         | 3          | <.005                       | · · · ·                               | 10.4               | 0.43               |
|          | 11/13/2000     | <0.003           | 0.11  | 0.012  | <0.05 | 0.139   | <0.001                                             | <0.05     | 59.9         | <0.001      | <0.005  | <0.005 | <0.002 | 0.29  |                                                                                                         | 2          | 0.013                       |                                       | 13.5               | 1.03               |
| 1        | 11/18/2000     | <0.01            | 0.1   | <0.2   | <0.1  | 0.06    | <0.005                                             | <0.1      | 66.8         | 0.002       | <0.01   | <0.01  | <0.01  | 0.32  |                                                                                                         | <2         | 1                           | <0.01                                 | 13.5               | 0.886              |
| L        | 12/14/2000     | <0.01            | <0.05 | <0.2   | <0.1  | 0.07    | <0.005                                             | <0.1      | 73.1         | <0.001      | <0.01   | <0.01  | <0.01  | 0.27  |                                                                                                         | 2          |                             | <0.01                                 | 15.5               | 1.14               |
| ļ        | 1/13/2001      | <.003            | 0.11  | <.005  | <.05  | 0.165   | 0.001                                              | <.05      | 63.7         | <.001       | <.005   | <.005  | 0.021  | 0.68  |                                                                                                         | 4          | <.005                       |                                       | 13.4               | 1.28               |
| ļ        | 2/10/2001      | <.003            | 0.3   | <.005  | 0.05  | 0.197   | 0.002                                              | <.05      | 96.7         | <.001       | <.005   | <.005  | 0.03   | 0.43  |                                                                                                         | 7          | <.005                       |                                       | 20                 | 1.96               |
| L        | 3/10/2001      | <.003            | 0.35  | <.005  | 0.12  | 0.26    | <.001                                              | <.05      | 78           | <.001       | <.005   | <.005  | 0.02   | 0.28  |                                                                                                         | 2.33       | <.005                       |                                       | 16.41              | 1.81               |
|          | 4/16/2001      | <.003            | <.05  | <.005  | <.05  | 0.104   | <.001                                              | <.05      | 91.4         | <.001       | <.005   | <.005  | 0.004  | 0.31  |                                                                                                         | <1         | <.005                       |                                       | 18.9               | 2.21               |
| Į        | 5/14/2001      | <.003            | 0.24  | 0.006  | <.05  | 0.194   | <.001                                              | <.05      | 70.3         | 0.002       | <.005   | 0.008  | 0.015  | 0.73  |                                                                                                         | 10         | 0.005                       |                                       | 13.7               | 1.08               |
|          | 6/17/2001      | <.003            | 0.39  | <.005  | 0.07  | 0.163   | <.001                                              | <.05      | 18.6         | <,001       | <.005   | <.005  | 0.006  | 0.62  | L                                                                                                       | <1         | <.005                       |                                       | 4.3                | 0.12               |
|          | 7/14/2001      | <.003            | 0.16  | 0.024  | 0.16  | 0.221   | <.001                                              | <.05      | 41.8         | <.001       | <.005   | <.005  | 0.014  | 0.75  |                                                                                                         | 1          | <.005                       |                                       | 8.6                | 0.43               |
|          | 8/14/2001      | <0.003           | 0.25  | <0.005 | <0.05 | 0.237   | <0.001                                             | <0.05     | 74.4         | <0.001      | <0.005  | <0.005 | 0.006  | 0.55  |                                                                                                         | 2          | <0.005                      |                                       | 16.5               | 0.8                |
|          | 10/15/2001     | <0.003<br><0.003 | 0.07  | <0.005 | <0.05 | 0.156   | <0.001                                             | <0.05     | 45.9         | <0.001      | <0.005  | <0.005 | 0.002  | 0.23  |                                                                                                         | 1          | 0.01                        |                                       | 10.3               | 0.63               |
| ······   | 11/13/2001     | <0.003           | 0.14  |        | 0.16  | 0.194   | <0.001                                             | <0.05     | 113.5        | <0.001      | <0.005  | 0.014  | <0.002 | 0.25  |                                                                                                         | 4          | 0.028                       |                                       | 26                 | 1.76               |
|          | 12/14/2001     | <0.003           | 0.11  | 0.012  | <0.05 | 0.139   | <0.001                                             | <0.05     | 59.9         | <0.001      | <0.005  | <0.005 | <0.002 | 0.29  |                                                                                                         | 2          | 0.013                       |                                       | 13.5               | 1.03               |
| <u> </u> | 12/15/2001     | <0.001           | 0.12  | <0.005 | 0.07  | 0.065   | 0.002                                              | <0.05     | 109.6        | 10 001      | 0,006   | 0.000  |        |       |                                                                                                         |            |                             |                                       |                    |                    |
|          | 1/15/2002      | <0.001           | 0.12  | <0.005 | <0.07 | 0.198   | <0.002                                             | <0.05     | 58.1         | <0.001      |         | 0.007  | <0.002 | 0.3   |                                                                                                         | 3          | 0.022                       |                                       | 25.6               | 1.89               |
|          | 2/12/2002      | <0.001           | <0.07 | <0.005 | <0.05 | 0.198   | <0.001                                             | <0.05     | 58.1<br>61.6 | <0.001      | <0.005  | 0.008  | 0.014  | 0.8   |                                                                                                         | 2          | 0.007                       |                                       | 12.1               | 0.82               |
|          | 3/12/2002      | <0.001           | 0.06  | <0.005 | <0.05 | 0.163   | <0.001                                             | <0.05     | 108.8        | <0.001      | <0.005  |        | 0.013  | 0.17  |                                                                                                         | 2          | 0.01                        | ļ                                     | 11.5               | 0.83               |
|          | 4/15/2002      | <0.001           | <0.05 | <0.005 | <0.05 | 0.147   | <0.001                                             | <0.05     | 108.8        | <0.001      | <0.005  | 0.007  | 0.004  | 0.33  |                                                                                                         | 3          | 0.006                       |                                       | 20.5               | 2.28               |
| <u> </u> | 5/13/2002      | <0.001           | 0.54  | <0.005 | <0.05 | 0.147   | <0.001                                             | <0.05     | 35.1         | <0.001      | <0.005  | 0.007  | 0.004  | 0.18  |                                                                                                         | 3          | 0.006                       |                                       | 21.8               | 2.37               |
|          | 6/16/2002      | <0.2             | 0.14  | <0.003 | <0.05 | 0.191   | <0.01                                              | 0.05      | 28.1         | <0.2        | <0.005  | 0.006  | 0.007  | 1.4   |                                                                                                         | 2          | 0.006                       |                                       | 7.1                | 0.42               |
|          | 7/16/2002      | 1.9              | 0.11  | <0.003 | 0.05  | 0.176   | 0.4                                                | 0.01      | 67.3         | <0.2        | 0.001   | <0.006 | 0.009  | 0.342 |                                                                                                         | <u> </u>   | 0.001                       |                                       | 6                  | 0.221              |
|          | 8/12/2002      | <0.2             | 0.076 | <0.003 | 0.05  | 0.103   | <0.2                                               | <0.01     | 36.7         | 0.6         | <0.004  | 0.002  | 0.016  | 0.19  |                                                                                                         | 2.5        | 0.003                       |                                       | 15.1               | 0.601              |
| · · ·    | 9/16/2002      | <0.2             | 0.062 | 0.007  | 0.12  | 0.103   | <0.2                                               | <0.01     | 60.9         | 0.5         | 0.001   | 0.002  |        |       |                                                                                                         |            | 0.003                       | <u> </u>                              | 7.3                | 0.344              |
|          | 10/15/2002     | 0.6              | 0.062 | <0.003 | 0.12  | 0.113   | <0.2                                               | 0.02      | 41.6         | 0.5         | <0.001  | 0.005  | 0.023  | 0.231 |                                                                                                         | 2.5        | 0,004                       |                                       | 14.2               | 0.581              |
|          | 11/11/2002     | <u></u>          | 01000 |        |       |         | NV.2                                               | 0.02      | O            | 0.3         | <u></u> | 0.003  | 0.02   | 0.272 |                                                                                                         | 1.1        | 0.003                       |                                       | 8.6                | 0.296              |
|          | 11/12/2002     | 0.5              | 0.057 | <0.003 | 0.17  | 0.126   | <0.2                                               | <0.01     | 55,9         | <0.2        | 0.004   | 0.001  | 0.017  | 0.312 |                                                                                                         | 1 5        | 0.007                       |                                       |                    |                    |
|          | 12/10/2002     | 0.3              | 0.042 | 0.006  | 0.13  | 0.126   | 0.2                                                | <0.01     | 65.9         | 1           | 0.004   | 0.001  | 0.017  | 0.312 |                                                                                                         | 1.5        | 0.004                       |                                       | 11.1               | 0.581              |
| L        | , / 20/ 2002 ] |                  | 01044 | 0.000  |       | 0.100   | 0.6                                                | - 10.01 I | 62.2         | <u>н</u>    | 0.003   | 0.004  | 0.044  | 0.415 |                                                                                                         | 2          | 0.004                       |                                       | 14.9               | 0.923              |

| Station      | Date                 | MO-T           | NA-T     | NI-T           | P-T             | PB-T   | B-T        | 80-T          | SE-T                       | SI-T  | 8N-T          | SR-T         | 100 mm amage                        | TL-T                   | V-T                   | W-T   | Sector of the sector of the  |
|--------------|----------------------|----------------|----------|----------------|-----------------|--------|------------|---------------|----------------------------|-------|---------------|--------------|-------------------------------------|------------------------|-----------------------|-------|------------------------------|
| L.S.M.M.M.M. | SALES AND LODIES     |                |          |                | id second state |        | 2002002000 |               |                            |       | DEF 2         | Willey DK- 1 |                                     | 10-1                   | <u> </u>              | M-T   | ZN-T                         |
|              | 505545045946         | mg/L           | mg/L     | mg/L           | mg/L            | mg/L   | mg/L       | mg/L          | mg/L                       | mg/L  | mg/L          | mg/L         | mg/L                                | mg/L                   | mg/L                  | mg/L  | mg/L                         |
| FDU          | 1                    |                |          |                |                 |        |            |               | 1. Constanting 1. Constant |       | 11000100      |              | 1 100 1 100 100 100 100 100 100 100 | CONSIGNATION OF A SAME | Services and J. Advan |       | 10050371 <b>EAU 7 11</b> .00 |
|              | 5/19/1998            | <.002          | 2        | 0.01           | 0.33            | <.02   | 17         | <.03          | <.03                       | 1.9   | <.01          | 0.018        | <.005                               |                        | 0.021                 | <.03  | 0.08                         |
|              | 5/17/1999            | 0.011          | <1       | <.005          | <.04            | <.01   |            | <.03          | <.03                       | 0.8   | <.01          | 0.033        | <.005                               |                        | 0.021                 | <.03  | 0.09                         |
|              | 10/30/1999           | <.002          | 3        | 0.006          | <.04            | <.01   | <1         | <.03          | <.005                      | 5.1   | 0.02          | 0.026        | <.005                               | 1                      | <.005                 | <.03  | <.01                         |
|              | 6/11/2002            | <0.001         | 1.3      | 0.023          | 0.02            | 0.026  | 0.7        | <0.002        | <0.005                     | 5.4   | 0.008         | 0.016        | 0.007                               |                        | 0.001                 | <0.03 | 0.013                        |
| R2           |                      |                |          |                |                 |        |            |               | [                          |       |               |              |                                     | 1                      |                       |       |                              |
| ļ            | 8/5/1998             | 0.0067         | 9.9      | 0.013          | 1.29            | <.004  | 13         | 0.019         | <.001                      | 4.224 | <.002         | 0.2343       | 0.01                                |                        | <.001                 | <.006 | 0.059                        |
| L            | 9/9/1998             | <.002          | 8        | <.005          | 0.34            | <.01   |            | <.03          | <.005                      | 3.14  | <.01          | 0.215        | 0.033                               |                        | <.005                 | <.03  | 0.19                         |
|              | 9/10/1998            |                |          |                |                 |        |            |               |                            |       |               |              |                                     |                        |                       |       |                              |
|              | 7/31/2000            |                | 4.4      | 0.0041         | 0.7             | 0.003  | 26.18      | <.001         | <.001                      | 3.86  | <.0004        | 0.1447       | 0.0229                              |                        | 0.0089                | <.001 | 0.0368                       |
| -            | 9/5/2000             | 0.004          | 2.53     | <.0002         | <.2             | <.001  | 7.25       | <.001         | <.001                      | 5.323 | <.0004        | 0.1097       | 0.0182                              |                        | <.0002                | <.001 | 0.0223                       |
| R3           | 0.15.13.000          |                |          |                |                 |        |            |               |                            |       |               |              |                                     |                        |                       |       |                              |
|              | 8/5/1998             |                | 8.5      | 0.006          | 1.531           | <.004  | 12         | 0.007         | <.001                      | 3.968 | <.002         | 0.2174       | 0.005                               |                        | 0.002                 | <.006 | 0.047                        |
|              | 9/10/1998            | <.002          | 8        | <.005          | <.04            | 0.02   |            | <.03          | <.005                      | 3.61  | <.01          | 0.211        | 0.023                               |                        | <.005                 | <.03  | 0.15                         |
|              | 8/1/2000             | 0.0073         | 4        | 0,005          | 0.7             | <.001  | 23.99      | <.001         |                            |       |               |              |                                     |                        |                       |       |                              |
| <b></b>      | 9/6/2000             |                | 2.58     | <.0002         | <.2             | <.001  | 23.99      | <.001         | <.001                      | 3.83  | <.0004        | 0.141        | 0.0126                              | ļ                      | 0.0054                | <.001 | 0.0388                       |
| R4           | 3/0/2000             | 0.0000         | 2,20     | <u></u>        | <u> </u>        | <.001  | 0.77       | <.001         | <.001                      | 5.782 | <.0004        | 0.1063       | 0.018                               |                        | <.0002                | <.001 | 0.0217                       |
|              | 8/5/1998             | 0.0047         | 7.5      | 0.007          | 0.624           | <.004  | 8          | 0.009         | <.001                      | 4.034 | <.002         | 0.2086       | 0.000                               |                        |                       |       |                              |
|              | 9/9/1998             | <.002          | 7        | 0.007          | 0.05            | <.01   | •          | <.03          | <.001                      | 3.14  | <.002         | 0.199        | 0.004                               |                        | <.001                 | <.006 | 0.023                        |
|              | 9/10/1998            |                | ,        |                | <u> </u>        |        |            |               | 1 2.005                    | 3.14  | ~.01          | 0.133        | 0.017                               |                        | <.005                 | <.03  | 0.12                         |
|              | 3/17/1999            | <.002          | 10       | <.005          | 0.59            | <.01   | 50         | <.03          | <.03                       | 3.9   | <.01          | 0.256        | 0.007                               |                        | <.005                 | <.03  |                              |
|              | 8/1/2000             | 0.0034         | 4.04     | 0.0093         | 0.2             | 0.003  | 22.06      | <.001         | <.001                      | 4.32  | <.0004        | 0.1498       | 0.012                               |                        | 0.0014                | <.001 | 0.05                         |
| R5           | 1                    |                |          |                |                 |        |            |               |                            | 4.52  |               | 0.1930       | 0.012                               |                        | 0.0014                | <.001 | 0.0288                       |
|              | 8/5/1998             | 0.0048         | 3.2      | 0.004          | 1.631           | <.004  | 3          | 0.007         | <.001                      | 3.953 | <.002         | 0.1515       | 0.003                               |                        | <.001                 | 0.098 | 0.01                         |
|              | 9/9/1998             | <.002          | 3        | 0.011          | 0.25            | <.01   |            | <.03          | <.005                      | 2.83  | <.01          | 0.138        | 0.011                               |                        | <.005                 | <.03  | 0.07                         |
|              | 9/10/1998            |                |          |                |                 | İ      |            |               |                            |       |               |              |                                     |                        |                       |       | - 0.01                       |
|              | 8/1/2000             | 0.0051         | 1.66     | 0.0021         | 0.8             | <.001  | 6.46       | <.001         | <.001                      | 4.03  | <.0004        | 0.1067       | 0.0093                              |                        | 0.0013                | <.001 | 0.007                        |
|              | 9/6/2000             | 0.0032         | 2.43     | 0.0007         | <.2             | <.001  | 6.18       | <.001         | <.001                      | 5.597 | <.0004        | 0.1073       | 0.0216                              |                        | <.0002                | <.001 | 0.0202                       |
| R6           |                      |                |          |                |                 |        |            |               |                            |       |               |              |                                     |                        |                       |       |                              |
|              | 8/5/1998             | 0.0069         | 2.3      | 0.003          | 0.464           | <.004  | 2          | <.006         | <.001                      | 4.102 | <.002         | 0.1451       | 0.002                               |                        | <.001                 | <.006 | 0.004                        |
|              | 9/9/1998             | 0.002          | 3        | <.005          | <.04            | 0.03   |            | <.03          | <.005                      | 2.89  | <.01          | 0.131        | 0.014                               |                        | <.005                 | <.03  | 0.06                         |
|              | 9/10/1998            |                |          |                |                 |        |            |               |                            | 1     |               |              | L                                   |                        |                       |       |                              |
|              | 8/1/2000             |                | 1.42     | 0.0026         | 0.6             | <.001  | 4.76       | 0.003         | <.001                      | 3.73  | <.0004        | 0.0929       | 0.013                               |                        | 0.0005                | <.001 | 0.0035                       |
| R7           | 9/6/2000             | 0.0029         | 2.23     | 0.0022         | <.2             | <.001  | 6.07       | <.001         | <.001                      | 5.841 | <.0004        | 0.111        | 0.0283                              |                        | <.0002                | <.001 | 0.0258                       |
| R7           | 5/19/1998            | <.002          | 1        |                | L               |        |            |               |                            |       |               |              |                                     |                        |                       |       |                              |
|              | 6/15/1998            | <.002          | <1       | <.005<br><.005 | 1.32            | <.02   | 1          | 0.04          | < .03                      | 1.7   | <.01          | 0.033        | 0.006                               |                        | <.005                 | <.03  | <.01                         |
|              | 8/5/1998             |                | 2.3      | 0.003          | 1.2             | <.02   | 5          | <.03<br>0.008 | <.03<br><.001              | 2.6   | <.01          | 0.067        | <.005                               |                        | <.005                 | <.03  | 0.03                         |
|              | 9/9/1998             | <.002          | 3        | <.005          | 0.25            | 0.04   |            | <.03          | <.001                      | 4.375 | <.002<br><.01 | 0.1138       | 0.002                               |                        | <.001                 | <.006 | <.002                        |
|              | 9/10/1998            | ~.002          |          | <u></u>        | 0,23            | 0.04   |            | <.05          | <.005                      | 3.96  | <.01          | 0.12         | 0.008                               |                        | <.005                 | <.03  | 0.06                         |
|              | 10/19/1998           | <.002          | 3        | 0.014          | 12.35           | 0.02   | 3          | <.03          | <.03                       | 3.5   | <.01          | 0.125        | 0.014                               |                        | 1 0.05                |       |                              |
| <b> </b>     | 2/25/1999            | <.002          | 4        | <.005          | 0.36            | <.01   | 4          | <.03          | <.03                       | 5.6   | <.01          | 0.125        | 0.014                               |                        | <.005<br><.005        | <.03  | 0.01                         |
|              | 5/17/1999            | 0.015          | 1        | <.005          | <.04            | <.01   |            | <.03          | <.03                       | 1.5   | <.01          | 0.237        | <.005                               |                        | <.005                 | <.03  | 0.03                         |
|              | 7/4/1999             | <.002          | <1       | <.005          | 0.08            | 0.01   | 2          | <.03          | <.03                       | 4.4   | <.01          | 0.076        | <.005                               |                        | <.005                 | <.03  | 0.04                         |
|              | 10/30/1999           | <.002          | 4        | <.005          | <.04            | <.01   | 3          | <.03          | <.005                      | 4     | <.01          | 0.115        | <.005                               |                        | <.005                 | <.03  | <.01                         |
|              | 3/26/2000            | <.002          | 8        | <.005          | <1              | <.01   | 4          | <.03          | <.005                      | 4.9   | <.01          | 0.205        | <.005                               |                        | <.005                 | <.03  | 0.02                         |
|              | 6/3/2000             | 0.002          | 1        | <.005          | <1              | <.01   |            | <.03          | <.005                      | 2.7   | <.01          | 0.054        | 0.061                               |                        | 0.048                 | <.03  | 0.02                         |
|              | 8/1/2000             | 0.0029         | 1.47     | 0.0033         | 1.4             | <.001  | 1.72       | <.001         | <.001                      | 3.84  | <.0004        | 0.074        | 0.0082                              |                        | 0.0009                | <.001 | 0.009                        |
|              | 9/6/2000             | 0.0015         | 2.24     | <.0002         | <.2             | <.001  | 2.25       | <.001         | <.001                      | 6.629 | <.0004        | 0.0935       | 0.018                               |                        | <.0002                | <.001 | 0.0169                       |
|              | 9/12/2000            | <.002          | 3        | <.005          | 4               | <.01   |            | <.03          | <.005                      | 4     | <.01          | 0.03         | <.005                               |                        | <.005                 | <.03  | 0.05                         |
| <u> </u>     | 3/5/2001             | <.002          | 7.9      | <.005          | <1              | <.01   | 4          | <.03          | <.005                      | 5.39  | <.01          | 0.2          | 0.006                               |                        | <.005                 | <.03  | <.01                         |
| Ļ            | 6/13/2001            | 0.008          | 2        | <.005          | <1              | <.01   | <1         | <.03          | <.005                      | 2.4   | <.01          | 0.038        | 0.013                               |                        | 0.005                 | <.03  | 0.02                         |
|              | 9/8/2001             | <0.002         | <1       | <0.005         | <1              | <0.01  | 2          | <0.03         | <0.005                     | 4.9   | <0.01         | 0.116        | <0.005                              |                        | <0.005                | <0.03 | 0.03                         |
| L            | 3/21/2002            | 0.004          | 5        | <0.005         | <0.01           | <0.01  | 3          | <0.03         | <0.005                     | 6.9   | 0.02          | 0.222        | <0.005                              |                        | <0.005                | <0.03 | <0.01                        |
| <u> </u>     | 6/25/2002            | <0.001         | 1.8      | 0.003          | 0.03            | 0.015  | 2.3        | 0.007         | <0.005                     | 4.4   | 0.004         | 0.085        | 0.002                               |                        | <0.001                | <0.03 | <0.001                       |
|              | 9/27/2002            | 0.002          | 1.6      | 0.001          | 0.03            | <0.002 | 2.8        | 0.023         | <0.005                     | 4.9   | 0.038         | 0.107        | 0.001                               |                        | <0.001                | <0.03 | 0.006                        |
| W10          | -                    |                |          |                |                 |        |            |               |                            |       |               |              |                                     |                        |                       |       |                              |
| I            | 6/16/1998            | <.002          | <1       | <.005          | <.04            | <.02   | 1          | <.03          | <.03                       | 4.9   | <.01          | 0.046        | <.005                               |                        | <.005                 | <.03  | 0.05                         |
| }            | 7/3/1999<br>6/3/2000 | <.002<br><.002 | 1        | <.005<br><.005 | 0.1             | <.01   | 1          | <.03          | <.03                       | 8.2   | <.01          | 0.039        | <.005                               |                        | 0.008                 | <.03  | 0.03                         |
| L            | 1 0/3/2000           | UU2            | <u> </u> | <.005          | <1              | <.01   |            | <.03          | <.005                      | 3.6   | <.01          | 0.047        | 0.006                               |                        | <.005                 | <.03  | <.01                         |

| Station        | Date                 | MO+T  | NA-T | NI-T    | P-T                                                                                                              | PB-T      | 8-T          | 8 <b>B-</b> T | SE-T       | BI-T        | 8N-T      | 8R-T                                    | and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s | TL-T    | V-T    | W-T     | ZN-T  |
|----------------|----------------------|-------|------|---------|------------------------------------------------------------------------------------------------------------------|-----------|--------------|---------------|------------|-------------|-----------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|---------|-------|
| 20150000000000 | 9.466.999.9419962.65 |       |      | 研究的情報法  | 1. Constanting of the second second second second second second second second second second second second second | SUBDER OF | Sanasanan se |               | 1012010000 | STATISTICS. | HORE BALL | CONTRACTOR                              | 400 - And 1980 - 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 10-1    |        | and w-T | 2N-1  |
|                |                      | mg/L  | mg/L | mg/L    | mg/L                                                                                                             | mg/L      | mg/L         | mg/L          | mg/L       | mg/L        | mg/L      | mg/L                                    | mg/L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | mg/L    | mg/L   | mg/L    | mg/L  |
|                | 6/11/2001            | <.002 | 3    | <.005   | <1                                                                                                               | <.01      | <1           | <.03          | <.005      | 3.2         | <.01      | 0.038                                   | <.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         | <.005  | <.03    | 0.02  |
|                | 6/11/2002            | 0.006 | 1.3  | <0.001  | 0.03                                                                                                             | 0.003     | 1.2          | <0.002        | <0.005     | 6.4         | 0.002     | 0.046                                   | 0.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         | <0.001 | <0.03   | 0.024 |
| X5             |                      |       |      |         |                                                                                                                  | l         |              |               | l          |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
|                | 1/5/1998             |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
|                | 1/5/1998             | 0.009 | 16   | <.005   | <.04                                                                                                             | <.02      | 146          | <.03          | <.03       | 1.6         | <.01      | 0.41                                    | <.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         | <.005  | <.03    | 0.07  |
|                | 1/12/1998            |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
| L              | 1/12/1998            | <.002 | 16   | 0.007   | <.04                                                                                                             | <.02      | 126          | <.03          | <.03       | 1.1         | <.01      | 0.362                                   | <.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | [       | <.005  | <.03    | 0.06  |
|                | 1/19/1998            |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
|                | 1/23/1998            |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
|                | 1/28/1998            |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
|                | 2/2/1998             |       |      |         |                                                                                                                  | 1         |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
|                | 2/5/1998             |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
| J              | 2/9/1998             |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
|                | 2/12/1998            |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |        |         |       |
|                | 2/14/1998            |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
|                | 2/18/1998            |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
|                | 2/19/1998            |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |        |         |       |
|                | 4/13/1998            | 0.011 | 21   | 0.013   | 1.09                                                                                                             | <.02      | 117          | <.03          | <.03       | 3.1         | <.01      | 0.402                                   | 0.012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         | <.005  | <.03    | 0.37  |
|                | 4/22/1998            |       |      |         |                                                                                                                  | · · · ·   |              | . <u> </u>    |            |             |           |                                         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |        |         |       |
|                | 4/26/1998            |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
|                | 4/30/1998            |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |        |         | L     |
|                | 5/1/1998             |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
|                | 5/4/1998             |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
|                | 5/9/1998             |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
|                | 5/14/1998            |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
|                | 5/18/1998            |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         | ·     |
|                | 5/18/1998            | <.002 | 17   | 0.016   | <.04                                                                                                             | <.02      | 138          | 0.03          | <.03       | 2.1         | <.01      | 0.31                                    | 0.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         | <.005  | <.03    |       |
|                | 5/23/1998            | -1002 |      | 0.010   |                                                                                                                  | 1.02      | 130          | <u> </u>      | ~.03       | 4.1         | <u> </u>  | 0.31                                    | 0.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         | <.005  | <.03    | 0.44  |
|                | 5/27/1998            |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         | I     |
|                | 6/2/1998             | 0.003 | 18   | <.005   | 0.37                                                                                                             | <.02      | 133          | <.03          | <.03       | 2.4         | <.01      | 0.307                                   | 0.014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         | 0.011  | <.03    | 0.48  |
|                | 6/5/1998             |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         | 0.014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         | 0.011  |         |       |
|                | 6/8/1998             |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
|                | 6/10/1998            |       |      |         |                                                                                                                  |           |              |               |            |             | 1         |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         | ·     |
|                | 6/15/1998            | <.002 | 21   | <.005   | 1.04                                                                                                             | <.02      | 55           | <.03          | <.03       | 1           | <.01      | 0.362                                   | 0.022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         | <.005  | <.03    | 0.32  |
|                | 6/19/1998            |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
|                | 6/20/1998            | 0.009 | 21   | 0.008   | 1.54                                                                                                             | <.02      |              | <.03          | <.03       | 0.7         | <.01      | 0.309                                   | 0.012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1       | 0.013  | <.03    | 0.33  |
|                | 6/21/1998            | 0.015 | 21   | 0.012   | 0.42                                                                                                             | <.02      |              | <.03          | <.03       | 0.8         | <.01      | 0.294                                   | 0.007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1       | <.005  | <.03    | 0.29  |
|                | 6/25/1998            |       |      |         |                                                                                                                  |           |              |               | Í          |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
|                | 6/26/1998            |       |      |         |                                                                                                                  |           |              |               |            |             |           | i – – – – – – – – – – – – – – – – – – – |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
|                | 6/30/1998            | 0.006 | 20   | 0.012   | <.04                                                                                                             | <.02      | 133          | <.03          | <.03       | 1.9         | <.01      | 0.369                                   | 0.025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         | <.005  | <.03    | 0.23  |
|                | 7/7/1998             |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
|                | 7/9/1998             |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | · · · · |        |         |       |
|                | 7/14/1998            |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
|                | 7/16/1998            |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
| J              | 7/21/1998            | 0.014 | 26   | 0.01    | <.04                                                                                                             | <.02      | 156          | 0.05          | <.03       | 1.2         | <.01      | 0.426                                   | 0.012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         | <.005  | <.03    | 0.31  |
|                | 7/23/1998            |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
|                | 7/28/1998            |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
| l              | 8/1/1998             |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
| J              | 8/5/1998             |       |      |         | L                                                                                                                | L         |              |               |            |             | L         |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -       |        |         |       |
| <b>├</b> ────  | 8/10/1998            | <.002 | 30   | <.005   | <.04                                                                                                             | 0.04      | 54           | <.03          | <.03       | 1.8         | <.01      | 0.484                                   | 0.011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         | 0.01   | <.03    | 0.39  |
|                | 8/14/1998            |       |      |         |                                                                                                                  |           |              |               |            |             | ļ!        |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ļ       |        |         | ]     |
|                | 8/17/1998            |       |      | · · · · |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ļ       |        |         |       |
|                | 8/21/1998            |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
|                | 8/24/1998            |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
|                | 8/28/1998            |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
|                | 8/31/1998            |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
|                | 9/4/1998             |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
|                | 9/7/1998             |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
|                | 9/16/1998            |       |      |         |                                                                                                                  |           |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |        |         |       |
|                | 9/21/1998            |       |      |         |                                                                                                                  | L         |              |               |            |             |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1       |        |         |       |

|               | Date                                             | MO-T                    | NA+T            | S NI-T   | P-T            | PB-T           | B-T        | 8B-T  | 8E-T           | si-T | BN-T       | 6R-T    | TI-T     | TL-T | V-T              |                  | ZN-T  |
|---------------|--------------------------------------------------|-------------------------|-----------------|----------|----------------|----------------|------------|-------|----------------|------|------------|---------|----------|------|------------------|------------------|-------|
|               | MARKER AND A BO                                  | 1702000000              |                 |          |                |                |            |       |                |      | NE RECEIPT |         |          |      | NEW CONTRACTOR   | energy magnetics |       |
| 1100000000000 | 91/07/3093-01-054                                | mg/L⊗                   | mg/L            | mg/L     | Case mg/L      | mg/L           | mg/L       | mg/L  | mg/L           | mg/L | mg/L       | mg/L    | mg/L     | mg/L | mg/L             | mg/L             | mg/L  |
|               | 9/25/1998                                        | 0.017                   | 37              | 0.013    | 2.3            | <.02           | 195.4      | <.03  | <.03           | 3.2  | <.01       | 0.596   | 0.03     |      | 0.007            | <.03             | 0.55  |
|               | 10/2/1998                                        |                         |                 |          | ·              |                |            |       |                |      |            |         |          |      |                  |                  |       |
|               | 10/11/1998                                       |                         |                 |          |                |                |            |       |                |      |            |         |          |      |                  |                  |       |
|               | 10/14/1998                                       |                         |                 |          |                |                |            |       |                |      |            |         | <u> </u> |      |                  |                  |       |
|               | 10/19/1998<br>10/20/1998                         | <.002                   | 34              | 0.024    | <.04           | <.02           | 205        | <.03  | <.03           | 3.4  | <.01       | 0.511   | 0.041    |      | <.005            | <.03             | 0.56  |
|               | 11/17/1998                                       | 0.022                   |                 |          |                |                |            |       |                |      |            |         |          |      |                  |                  |       |
| 1             | 1/18/1998                                        |                         | 38              | 0.015    | 2.21           | 0.02           | 190        | <.03  | <.03           | 3.1  | <.01       | 0.533   | 0.017    |      | <.005            | <.03             | 0.6   |
|               | 2/21/1999                                        | 0.006                   | 36              | 0.019    | <.04           | <.01           | 204        | <.03  | <.03           | 5.1  | <.01       | 0.537   | 0.023    |      | <.005            | <.03             | 0.33  |
|               | 3/21/1999                                        | <.002                   | 39              | 0.019    | 2.21           | <.01           | 210        | <.03  | <.03           | 5.1  | <.01       | 0.634   | 0.034    |      | <.005            | <.03             | 0.53  |
|               | 4/20/1999                                        | 0.028                   | <u>33</u><br>26 | 0.014    | 1.78           | <.01           | 197.3      | <.03  | <.03           | 5.1  | <.01       | 0.53    | 0.012    |      | 0.095            | <.03             | 0.31  |
|               | 5/6/1999                                         |                         | 16              |          | 0.75           | <.01           | 139        | <.03  | <.03           | 4    | <.01       | 0.42    | 0.046    |      | <.005            | <.03             | 0.3   |
|               | 5/17/1999                                        | <.002                   | 10              | <.005    | 0.74           | <.01           |            | <.03  | <.03           | 1.5  | <.01       | 0.423   | 0.012    |      | <.005            | <.03             | 0.41  |
|               | 5/27/1999                                        | 0.044                   | 10              | <.005    | <.04           | <.01           |            | <.03  | <.03           | 0.3  | <.01       | 0.213   | 0.138    |      | <.005            | <.03             | 0.39  |
|               | 7/3/1999                                         | <.002                   | 19              | <.005    |                | 0.03           |            | <.03  | <.03           | 0.6  | <.01       | 0.268   | 0.127    |      | <.005            | <.03             | 0.25  |
|               | 7/27/1999                                        | 0.039                   | 23              | <.005    | <.04           | <.01           | 157        | <.03  | <.03           | 5    | <.01       | 0.424   | <.005    |      | <.005            | <.03             | 0.37  |
|               | 7/29/1999                                        | 0.039                   | 23              |          | <.04           | 0.01           | 180        | <.03  | <.03           | 3.5  | <.01       | 0.504   | 0.102    |      | <.005            | <.03             | 0.38  |
|               | 8/12/1999                                        | 0.014                   | 29              | 0.004    | 0.05           | 0.017          | 117.1      | <.003 | <.003          | 3.61 | <.001      | 0.467   | 0.013    |      | <.001            | <.003            | 0.342 |
|               | 9/10/1999                                        | 0.014                   | 23              | 0.015    | <.04           | <.01           | 185        | <.03  | <.005          | 3.9  | <,01       | 0.494   | 0.011    |      | 0.015            | <.03             | 0.3   |
|               | 10/29/1999                                       | <.002                   | 33              | 0.015    | <.04           | <.01           | 209        | <.03  | <.005          | 2.7  | <.01       | 0.459   | 0.032    |      | <.005            | <.03             | 0.31  |
|               | 1/26/2000                                        | ~.002                   |                 | 0.022    | <u>~.04</u>    | <.01           | 198        | <.03  | <.005          | 4.8  | <.01       | 0.521   | 0.01     |      | <.005            | <.03             | 0.6   |
|               | 3/25/2000                                        | <.002                   | 27              | <.005    | <1             | <.01           | 199        | <.03  | <.005          |      |            | 0 255   | 0.001    |      |                  |                  | 0.35  |
|               | 4/27/2000                                        |                         | 25              | 0.013    | <1             | <.01           | 199        | <.03  | <.005          | 5.7  | <.01       | 0.635   | 0.024    |      | <.005            | <.03             | 0.32  |
|               | 5/15/2000                                        | <.002                   | 1               | <.005    | <1             | <.01           |            | <.03  | <.005          | 5.6  | <.01       | 0.483   | 0.084    |      | <.005            | <.03             | 0.29  |
|               | 5/22/2000                                        |                         |                 | <u> </u> |                | <u> </u>       | }          | <.03  | <.005          | 1.6  | <.01       | 0.23    | 0.021    |      | 0.007            | <.03             | 0.08  |
|               | 6/4/2000                                         |                         | 15              | 0.02     | <1             | 0.11           |            | 0.05  | <.005          | 2.4  | <.01       | 0.377   |          |      |                  |                  |       |
|               | 6/4/2000                                         | 0.02                    |                 | 0.02     | <u>}</u>       | 0.11           |            | 0.05  | C.005          | 4.4  | <.01       | 0.377   | 0.141    |      | 0.545            | <.03             | 0.35  |
|               | 6/26/2000                                        | <,002                   | 22              | 0.005    | 4              | <.01           |            | 0.07  | <.005          | 2.4  | <.01       | 0.424   | 0.065    |      | 0.000            |                  |       |
|               | 7/25/2000                                        | 0.011                   | 25              | 0.021    | 4              | <.01           |            | <.03  | <.005          | 1.9  | <.01       | 0.568   | 0.048    |      | 0.023            | <.03             | 0.4   |
|               | 7/28/2000                                        |                         |                 | 0.002    |                |                |            |       | <b>1</b> 1.005 | 1.5  | ~.01       | 0.300   | 0.048    |      | 0.055            | <.03             | 0.46  |
|               | 8/15/2000                                        | -                       |                 |          |                |                |            |       |                |      |            |         |          |      |                  |                  |       |
|               | 8/29/2000                                        | <.002                   | 26              | 0.031    | 3              | <.01           |            | <.03  | <.005          | 3.3  | <.01       | 0.475   | 0.031    |      | <.005            |                  |       |
|               | 8/30/2000                                        |                         |                 |          |                |                |            |       |                |      | <u></u>    | 0.472   | 0.031    |      | <.005            | <.03             | 0.41  |
|               | 9/25/2000                                        | <0.01                   | 28              | <0.05    | <0.3           | <0.05          |            | <0.2  | <0.2           | 3.2  | <0.03      | 0.526   | <0.01    | <0.2 | <0.03            |                  | 0.7/1 |
|               | 10/21/2000                                       | 0.008                   | 33              | 0.005    | 7              | <.01           | 173        | <.03  | <.005          | 4.2  | <.01       | 0.545   | 0.128    | <0.2 | 0.023            |                  | 0.741 |
|               | 10/28/2000                                       |                         |                 |          | · · · · · ·    |                |            |       |                | 4.2  | <u></u>    | 0.343   | 0.120    |      | 0.023            | <.03             | 0.71  |
|               | 11/13/2000                                       | <0.002                  | 30              | 0.007    | 0.04           | <0.01          | 212        | <0.03 | <0.005         | 4.9  | 0.01       | 0.538   | 0.009    |      | 0.007            | <0.03            | 0.14  |
|               | 11/18/2000                                       | <0.01                   | 31              | <0.05    | < 0.3          | <0.05          |            | <0.2  | <0.2           | 4.09 | <0.03      | 0.574   | <0.01    | <0.2 | <0.007           | <0.03            | 0.528 |
|               | 11/28/2000                                       |                         |                 |          |                |                |            |       |                |      | -0.05      |         |          |      | ~0.03            |                  | 0.328 |
|               | 12/14/2000                                       | 0.01                    | 30              | <0.05    | <0.3           | <0.05          |            | <0.2  | <0.2           | 4.29 | <0.03      | 0.595   | <0.01    | <0.2 | <0.03            |                  | 0.813 |
|               | 1/13/2001                                        | 0.024                   | 27              | 0.013    | <1             | <.01           | 74         | <.03  | <.005          | 4    | <.01       | 0.682   | 0.063    |      | <.005            | <.03             | 0.46  |
|               | 2/10/2001                                        | <.002                   | 28              | 0.033    | <1             | <.01           | 92         | <.03  | <.005          | 4.3  | <.01       | 0.347   | 0.027    |      | <.005            | <.03             | 0.36  |
|               | 3/10/2001                                        | 0.003                   | 28.46           | <.005    | <1             | <.01           | 172.2      | <.03  | <.005          | 3.84 | <.01       | 0.55    | 0.01     |      | <.005            | <.03             | 0.61  |
|               | 4/16/2001                                        | <.002                   | 28              | <.005    | <1             | <.01           | 153        | <.03  | <.005          | 3.6  | <.01       | 0.56    | 0.01     |      | <.005            | <.03             | 0.48  |
|               | 5/14/2001                                        | 0.002                   | 25              | 0.009    | <1             | 0.05           | 163        | <.03  | 0.006          | 2.8  | <.01       | 0.544   | 0.006    |      | 0.013            | <.03             | 0.37  |
| I             | 6/17/2001                                        | <.002                   | 22              | <.005    | <1             | <.01           | 181        | <.03  | <.005          | 2.9  | 0.03       | 0.584   | <.005    |      | <.005            | <.03             | 0.12  |
| <b>└───</b> ┤ | 6/25/2001                                        |                         |                 |          |                |                |            |       |                |      |            |         |          |      |                  |                  |       |
|               | 7/14/2001                                        | <.002                   | 20              | 0.016    | <1             | <.01           | 191        | <.03  | <.005          | 4.6  | <.01       | 0.598   | 0.008    |      | <.005            | <.03             | 0.4   |
|               | 8/14/2001                                        | 0.003                   | 26              | 0.013    | <1             | <0.01          | 225        | <0.03 | <0.005         | 5    | <0.01      | 0.676   | 0.01     |      | <0.005           | <0.03            | 0.42  |
| ļ             | 8/21/2001                                        |                         |                 |          |                |                |            |       |                |      |            |         |          |      |                  |                  |       |
| <b>└────</b>  | 9/17/2001                                        | <0.002                  | 75              | 0.009    | <1             | <0.01          | 206        | <0.03 | <0.005         | 4.3  | <0.01      | 0.557   | <0.005   |      | 0.005            | <0.03            | 0.21  |
|               | 10/15/2001                                       | 0.003                   | 26              | 0.012    | <1             | <0.01          | 213        | <0.03 | <0.005         | 4.2  | <0.01      | 0.554   | <0.005   |      | <0.005           | <0.03            | 0.25  |
|               | 11/13/2001                                       | <0.002                  | 30              | 0.007    | 0.04           | <0.01          | 212        | <0.03 | <0.005         | 4.9  | 0.01       | 0.538   | 0.009    |      | 0.007            | <0.03            | 0.14  |
|               | 12/14/2001                                       |                         |                 |          |                |                |            |       |                |      |            |         |          |      |                  |                  |       |
|               | 12/15/2001                                       | 0.01                    | 24              | 0.006    | 0.03           | <0.01          | · 175      | <0.03 | <0.005         | 4.1  | 0.12       | 0.473   | <0.005   |      | 0.005            | <0.03            | 0.15  |
|               |                                                  | 0 004 1                 | 31              | 0.011    | <0.01          | <0.01          | 191        | <0.03 | 0.005          | 5.9  | 0.04       | 0.558   | <0.005   |      | <0.005           | <0.03            | 0.16  |
|               | 1/15/2002                                        | 0.004                   |                 |          |                |                |            |       |                |      |            | 0 0 0 0 |          |      |                  |                  |       |
|               | 1/15/2002<br>2/12/2002                           | 0.004                   | 32              | 0.011    | <0.01          | <0.01          | 147        | <0.03 | <0.005         | 6.7  | 0.05       | 0.521   | <0.005   |      | <0.005           | <0.03            | 0.11  |
|               | 1/15/2002<br>2/12/2002<br>3/12/2002              | 0.004                   | 32<br>30        | 0.007    | <0.01          | <0.01          | 165        | 0.04  | <0.005         | 6.1  | 0.01       | 0.521   | <0.005   |      | <0.005<br><0.005 | <0.03            | 0.11  |
|               | 1/15/2002<br>2/12/2002<br>3/12/2002<br>4/15/2002 | 0.004<br>0.006<br>0.002 | 32<br>30<br>29  | 0.007    | <0.01<br><0.01 | <0.01<br><0.01 | 165<br>189 | 0.04  |                |      |            |         |          |      |                  |                  |       |
|               | 1/15/2002<br>2/12/2002<br>3/12/2002              | 0.004                   | 32<br>30        | 0.007    | <0.01          | <0.01          | 165        | 0.04  | <0.005         | 6.1  | 0.01       | 0.549   | <0.005   |      | <0.005           | <0.03            | 0.1   |

| Station    | Date                  | <b>NO-T</b>    | NA-T     | NI-T                                    | P-T   | PB-T         | 8-T     | SB-T         | 8 <b>E</b> -T | 8 <b>1-</b> T     | SECOND COMPANY STATE (ST. | States and Marcal | Star   |      | 20000 - 2 - 2000 | summer of the | Notification and a second second |
|------------|-----------------------|----------------|----------|-----------------------------------------|-------|--------------|---------|--------------|---------------|-------------------|---------------------------|-------------------|--------|------|------------------|---------------|----------------------------------|
|            | 2 Million Strong      | - NO-1         |          | All all all all all all all all all all | 2-1   | PB-T         | Bel     | DB-1         | <b>38-1</b>   | BT-T.             | BN~T                      | SR-T              | TI-T   | TL-T | <u> </u>         | <b>W-T</b>    | ZN-T                             |
| CAN GEORGE |                       | mg/L           | mg/L     | mg/L?                                   | mg/L  | ng/L         | Samg/L® | mg/L         | mg/L          | mg/L              | mg/L                      | mg/L              | mg/L   | mg/L | mg/L             | mg/L          | mg/L                             |
|            | 6/16/2002             | 0.007          | 23.1     | 0.005                                   | <0.01 | <0.002       | 182.3   | 0.015        | <0.005        | 4.1               | 0.008                     | 0.471             | <0.001 |      | 0.003            | <0.03         | 0.262                            |
|            | 7/16/2002             |                |          |                                         |       |              |         |              |               |                   |                           |                   |        |      |                  |               |                                  |
|            | 7/16/2002             | 0.016          | 21.2     | 0.008                                   | 0.07  | <0.002       | 188.8   | 0.005        | <0.005        | 3.9               | <0.002                    | 0.505             | <0.001 |      | <0.001           | <0.03         | 0.073                            |
|            | 8/12/2002             | 0.005          | 27       | 0.014                                   | <0.01 | 0.016        | 191.2   | 0.003        | <0.005        | 4                 | <0.002                    | 0.531             | +0.001 |      | +0.001           |               |                                  |
|            | 9/16/2002             | 0.005          | 21       | 0.014                                   | ~U+01 | 0.010        | 191.2   | 0.005        | <0.005        | - 4               | <0.002                    | 0.531             | <0.001 |      | <0.001           | <0.03         | 0.202                            |
|            | 9/16/2002             | 0.005          | 24.9     | 0.005                                   | <0.01 | <0.002       | 206.6   | <0.002       | <0.005        | 4.1               | <0.002                    | 0.563             | <0.001 |      | 0.001            | <0.03         | 0.177                            |
|            | 9/29/2002             |                |          |                                         |       |              |         |              |               |                   |                           |                   |        |      |                  |               |                                  |
|            | 10/15/2002            |                |          |                                         |       |              |         |              |               |                   |                           |                   |        |      |                  |               |                                  |
|            | 10/15/2002            | 0.005          | 27.5     | 0.01                                    | <0.01 | 0.002        | 199.6   | <0.002       | <0.005        | 4.7               | 0.009                     | 0.572             | 0.001  |      | 0.001            | <0.03         | 0.256                            |
|            | 11/12/2002            | 0.005          |          | 0.010                                   | 0.1   | -0.000       |         | 0.000        | -0.007        |                   |                           |                   |        |      |                  |               |                                  |
|            | 12/10/2002            | 0.006          | 29.9     | 0.016                                   | 0.1   | <0.002       | 212.8   | 0.008        | <0.005        | 5.4               | <0.002                    | 0.604             | 0.001  |      | 0.003            | <0.03         | 0.288                            |
|            | 12/10/2002            | 0.004          | 27.7     | 0.01                                    | <0.01 | 0.027        | 205.1   | <0.002       | <0.005        | 5.9               | <0.002                    | 0.571             | <0.001 |      | 0.001            | <0.03         | 0.299                            |
|            | 12/15/2002            |                |          |                                         |       |              |         |              |               |                   |                           | 01012             | 40.001 |      | 0,001            |               | V.235                            |
| X13        |                       |                |          |                                         |       |              |         |              |               |                   |                           |                   |        |      |                  |               |                                  |
|            | 1/5/1998              | 0.003          | 34       | <.005                                   | <.04  | <.02         | 189     | <.03         | <.03          | 5.5               | <.01                      | 0.609             | <.005  |      | <.005            | <.03          | 0.02                             |
|            | 1/12/1998             | <.002          | 31       | 0.013                                   | <.04  | <.02         | 162     | <.03         | <.03          | 4.7               | <.01                      | 0.532             | <.005  |      | <.005            | <.03          | 0.02                             |
|            | 1/23/1998 2/24/1998   | 0.012          | 34       | 0.022                                   | 1.74  | 0.03         | 155     | 0.03         | . 02          |                   | . 01                      | 0.530             | 0.010  |      |                  |               |                                  |
|            | 3/13/1998             | 0.012          | J*       | 0.022                                   | L./%  | 0.03         | 155     | 0.03         | <.03          | 5.3               | <.01                      | 0.539             | 0.018  |      | <.005            | 0.04          | <.01                             |
|            | 3/17/1998             |                |          |                                         |       |              |         |              |               |                   |                           |                   |        |      |                  |               |                                  |
|            | 3/17/1998             | 0.007          | 38       | 0.021                                   | <.04  | <.02         | 132     | <.03         | <.03          | 6                 | <.01                      | 0.576             | 0.013  |      | 0.011            | <.03          | 0.01                             |
|            | 4/3/1998              |                |          |                                         |       |              |         |              |               |                   |                           |                   |        |      |                  |               |                                  |
|            | 4/13/1998             | <.002          | 37       | 0.02                                    | <.04  | <.02         | 148     | <.03         | <.03          | 6.3               | <.01                      | 0.608             | 0.016  |      | <.005            | <.03          | 0.3                              |
|            | 4/30/1998             |                |          |                                         |       |              |         |              |               |                   |                           |                   |        |      |                  |               |                                  |
|            | 5/18/1998             |                |          |                                         |       |              |         |              |               |                   |                           |                   |        |      |                  |               |                                  |
|            | 5/18/1998             | <.002          | 39       | 0.02                                    | <.04  | 0.02         | 135     | 0.04         | <.03          | 6.5               | <.01                      | 0.615             | 0.009  |      | <.005            | <,03          | 0.07                             |
|            | 6/15/1998             |                |          | 0.02                                    | 4.04  | 0.04         |         | 0.05         |               | 0.5               | ~.01                      | 0.015             | 0,003  |      | <u> </u>         | <u> </u>      | 0.07                             |
|            | 6/15/1998             | <.002          | 38       | 0.011                                   | 5.4   | <.02         | 163     | <.03         | <.03          | 5.7               | <.01                      | 0.582             | 0.022  |      | <.005            | <.03          | 0.05                             |
|            | 6/30/1998             | 0.01           | 41       | 0.018                                   | <.04  | <.02         | 394     | <.03         | <.03          | 7.9               | <.01                      | 0.675             | 0.025  |      | 0.01             | <.03          | 0.03                             |
|            | 7/21/1998             | <.002          | 36       | 0.017                                   | 0.44  | <.02         | 140     | <.03         | <.03          | 5.4               | <.01                      | 0.566             | 0.011  |      | <.005            | <.03          | 0.03                             |
|            | 8/10/1998             | <.002          | 34       | 0.008                                   | <.04  | 0.05         | 162     | <.03         | <.03          | 5.7               | <.01                      | 0.586             | 0.014  |      | 0.006            | <.03          | 0.04                             |
|            | 9/7/1998<br>9/25/1998 | 0.008          | 35       | 0.015                                   | 2.36  | <.02         | 193.9   | 0.05         | <.03          | 5.7               | <.01                      | 0.639             | 0.004  |      |                  |               |                                  |
|            | 10/19/1998            | 0.012          | 35       | 0.013                                   | <.04  | <.02         | 189     | <.03         | <.03          | <u> </u>          | <.01                      | 0.545             | 0.026  |      | <.005            | <.03          | 0.03                             |
|            | 11/13/1998            | 0.012          |          | 0.044                                   |       |              | 105     | 4,05         | <u>,,,,</u>   | 4.2               | <u></u>                   | 0.343             | 0.025  |      |                  | <.03          | <.01                             |
|            | 11/17/1998            | 0.007          | 47       | <.005                                   | 2.36  | 0.02         | 200     | 0.05         | <.03          | 7                 | <.01                      | 0.694             | 0.026  |      | <.005            | <.03          | 0.02                             |
|            | 12/15/1998            |                |          |                                         |       |              |         |              |               |                   |                           |                   |        |      |                  |               |                                  |
|            | 12/21/1998            | <.002          | 34       | 0.012                                   | 0.43  | <.01         | 147     | <.03         | <.03          | 6.3               | <.01                      | 0.523             | 0.024  |      | 0.052            | <.03          | 0.02                             |
|            | 1/18/1999             | <.002          | 42       | 0.018                                   | <.04  | <.01         | 239     | 0.03         | <.03          | 7.2               | <.01                      | 0.702             | 0.021  |      | <.005            | <.03          | 0.02                             |
|            | 1/27/1999             | 0.013          | 45       | 0.021                                   | 2.33  | <.01         | 214     | <.03         | <.03          | 8.1               | <.01                      | 0.764             | 0.035  |      | 4 0.05           |               | 0.05                             |
|            | 3/17/1999             | <.002          | 33       | 0.021                                   | 1.52  | <.01         | 164     | <.03         | <.03          | <u>8.1</u><br>6.2 | <.01                      | 0.764             | 0.035  |      | <.005<br><.005   | <.03<br><.03  | 0.05                             |
|            | 3/24/1999             |                |          | 0.005                                   | 4.5%  | <u>_</u>     | 704     |              |               | 0.2               | ~. v.                     | 310.0             | 0.023  |      |                  | <u>, ()</u>   | 0.04                             |
|            | 4/3/1999              |                |          |                                         |       |              |         |              |               |                   |                           |                   |        |      |                  |               |                                  |
|            | 4/20/1999             | <.002          | 38       | 0.008                                   | 1.19  | <.01         | 201     | <.03         | <.03          | 6.3               | <.01                      | 0.653             | 0.035  |      | <.005            | <.03          | <.01                             |
| ļ          | 5/17/1999             | <.002          | 38       | <.005                                   | 1.09  | <.01         |         | <.03         | <.03          | 6.4               | <.01                      | 0.641             | <.005  |      | <.005            | <.03          | 0.04                             |
|            | 6/4/1999              |                |          |                                         |       |              |         |              |               |                   |                           |                   |        |      |                  |               |                                  |
|            | 6/8/1999<br>7/3/1999  |                | 74       | 4 0.05                                  |       | - 01         | 200     |              | 1.07          |                   | 1                         | 0.000             |        |      |                  |               |                                  |
| -          | 7/27/1999             | <.002<br>0.019 | 34<br>36 | <.005<br>0.051                          | <.04  | <.01<br><.01 | 200     | <.03<br><.03 | <.03<br><.005 | 9                 | <.01<br><.01              | 0.665             | <.005  |      | 0.008            | <.03          | 0.04                             |
|            | 8/12/1999             | <.002          | 38       | 0.051                                   | <.04  | <.01         | 215     | <.03         | <.005         | 9.2               | <.01                      | 0.745             | 0.017  |      | 0.037            | <.03          | 0.02                             |
|            | 9/10/1999             | <.002          | 32       | 0.010                                   | <.04  | <.01         | 193     | <.03         | <.005         | 6                 | <.01                      | 0.605             | 0.023  |      | <.005<br>0.011   | <.03          | <.01                             |
|            | 9/28/1999             |                |          |                                         |       |              | ~~~     |              |               | <u>~</u>          |                           |                   |        |      | 0.011            |               | ~.01                             |
|            | 10/29/1999            | <.002          | 34       | <.005                                   | <.04  | <.01         | 188     | <.03         | <.005         | 5.4               | <.01                      | 0.577             | <.005  |      | <.005            | <.03          | <.01                             |
|            | 11/22/1999            | <.002          | 33       | 0.034                                   | 0.28  | <.01         | 199     | <.03         | <.005         | 6.7               | <.01                      | 0.637             | 0.028  |      | <.005            | <.03          | <.01                             |
|            | 12/14/1999            | <.002          | 31       | 0.015                                   | <.04  | <.01         | 171     | <.03         | <.005         | 4.6               | <.01                      | 0.538             | 0.009  |      | <.005            | <.03          | 0.02                             |
| <b>—</b>   | 1/27/2000             | <.002          |          | 0.011                                   | <1    | 0.02         |         | <.03         | <.005         | 5.9               | <.01                      | 0.569             | 0.032  |      | 0.022            | <.03          | <.01                             |
| L          | 2/28/2000             | <.002          | 40       | 0.021                                   | <1    | 0.05         | 192     | <.03         | <.005         | 7.7               | <.01                      | 0.628             | 0.052  |      | 0.011            | <.03          | 0.18                             |

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| Station Date        | MO-T  | NA-TS    | NI-T  | P-T          | PB-T           | 8-T               | BB-T            | 8E-T          | SI-T | SN-T          | SR-T   | TI-T       | TL-T           | V-T      | W-T            | ZN-T     |
|---------------------|-------|----------|-------|--------------|----------------|-------------------|-----------------|---------------|------|---------------|--------|------------|----------------|----------|----------------|----------|
| AND ALSO MARKED AND |       |          |       |              |                |                   | 101640508(2294) |               |      |               | 和意识图别的 | BARANTER O | <b>NER BER</b> |          | 49444607969755 |          |
|                     | mg/L  | mg/L     | mg/L  | mg/L         | mg/L           | mg/L              | mg/D            | mg/L          | mg/L | mg/L          | mg/L   | mg/L/      | mg/L           | mg/L     | mg/L/          | mg/L     |
| 3/23/2000           |       | 27       | <.005 | <1           | <.01           | 191               | <.03            | <.005         | 7.3  | <.01          | 0.678  | 0.006      |                | <.005    | <.03           | <.01     |
| 4/27/2000           |       | 31       | 0.015 | <1           | 0.05           |                   | <.03            | <.005         | 6.7  | <.01          | 0.637  | 0.063      |                | <.005    | <.03           | <.01     |
| 5/15/2000           |       | 38       | 0.014 | <1           | <.01           |                   | <.03            | <.005         | 8.2  | <.01          | 0.792  | 0.033      |                | <.005    | <.03           | 0.04     |
| 6/20/2000           |       |          |       |              |                |                   |                 |               |      |               |        |            |                |          |                |          |
| 6/20/2000           |       | 33       | 0.019 | 6            | <.01           | <1                | 0.05            | <.005         | 6.2  | <.01          | 0.586  | 0.034      |                | <.005    | 0.03           | 0.05     |
| 6/26/2000           |       | 37       | 0.021 | <1           | 0.01           |                   | 0.07            | <.005         | 6.2  | <.01          | 0.59   | 0.06       |                | 0.025    | <.03           | 0.05     |
| 7/19/2000           |       |          |       |              |                |                   |                 |               |      |               |        |            | L              | 1        |                |          |
| 7/25/2000           |       | 43       | 0.029 | <1           | <.01           |                   | <.03            | <.005         | 6.7  | <.01          | 0.77   | 0.041      |                | 0.037    | <.03           | 0.03     |
| 8/3/2000            |       |          |       |              |                |                   | ļ               |               |      | [             |        |            |                |          |                |          |
| 8/10/2000           |       |          |       |              | ,              |                   | [               |               |      | <u> </u>      |        |            |                |          |                |          |
| 8/18/2000           |       |          |       |              |                |                   |                 |               | l    |               |        |            |                |          |                |          |
| 8/24/2000           |       |          |       |              |                |                   |                 |               |      | <u> </u>      |        |            |                | ļ        | <u> </u>       |          |
| 8/29/2000           |       | 39       | 0.026 | 2            | <.01           |                   |                 |               |      |               |        |            |                | ļ        |                |          |
| 9/8/2000            |       | 39       | 0.020 | <sup>4</sup> | <.01           |                   | <.03            | <.005         | 7.2  | <.01          | 0.642  | 0.032      |                | <.005    | <.03           | 0.07     |
| 9/12/2000           |       |          |       |              |                |                   |                 |               |      | ļ             |        |            |                | <u> </u> | ļ              |          |
| 9/25/2000           |       | 39       | <0.05 | <0.3         | <0.05          |                   | <0.2            | <0.2          | 6.60 |               | 0.000  |            |                |          |                | L        |
| 10/19/2000          |       | 40       | 0.01  | <1           | <.01           | 174               | <.03            | <.005         | 6.68 | <0.03<br><.01 | 0.653  | <0.01      | <0.2           | <0.03    |                | 0.021    |
| 10/28/2000          |       | <u> </u> | 0.01  |              |                | 1/4               |                 | <u></u> 005   | 0.9  | <u>~.01</u>   | 0.617  | 0.096      |                | <.005    | <.03           | 0.04     |
| 11/13/2000          |       | 43       | 0.013 | 0.02         | <0.01          | 214               | 0.03            | <0.005        | 8.5  | 0.07          | 0.669  | 0.012      |                | 0.007    | 10.00          |          |
| 11/18/2000          |       | 43       | <0.05 | <0.3         | <0.01          |                   | <0.03           | <0.005        | 7.42 | <0.03         | 0.009  | <0.012     | <0.2           | 0.007    | <0.03          | 0.02     |
| 12/14/2000          |       | 37       | <0.05 | <0.3         | <0.05          |                   | <0.2            | <0.2          | 7    | <0.03         | 0.653  | <0.01      | <0.2           | <0.03    |                | 0.019    |
| 1/13/2001           | 0.004 | 39       | 0.031 | <1           | 0.2            | 99                | 0.09            | <.005         | 6.7  | <.01          | 0.723  | 0.056      | <u> </u>       | <.005    | <.03           | 0.014    |
| 2/10/2001           |       | 36       | 0.032 | 18           | <.01           | 108               | <.03            | <.005         | 6.5  | <.01          | 0.387  | 0.018      |                | <.005    |                |          |
| 3/1/2001            |       |          |       |              |                | 200               |                 | 3.000         |      | <u> </u>      | 0.387  | 0.010      |                | <.005    | <.03           | <.01     |
| 3/10/2001           | <.002 | 39.22    | <.005 | <1           | <.01           | 200.5             | <.03            | <.005         | 5.97 | <.01          | 0.64   | 0.005      |                | <.005    | <.03           | 0.02     |
| 3/15/2001           | 1     |          |       |              |                |                   |                 |               |      |               | 0.04   | - 0.000    |                | ~.005    | <u> </u>       | 0.02     |
| 3/27/2001           | 1     |          |       |              |                |                   |                 |               |      |               |        |            |                |          |                |          |
| 4/5/2001            |       |          |       |              |                |                   |                 |               |      |               |        | 1          | 1              |          |                |          |
| 4/11/2001           | 1     |          |       |              |                |                   |                 |               |      |               |        |            |                | <b> </b> |                | <b>⊨</b> |
| 4/16/2001           | <.002 | 38       | 0.005 | <1           | <.01           | 182               | <.03            | <.005         | 6    | <.01          | 0,66   | 0.01       |                | <.005    | <.03           | 0.03     |
| 4/23/2001           |       |          |       |              |                |                   |                 |               |      |               |        | 1          | 1              |          |                |          |
| 4/30/2001           |       |          |       |              |                |                   |                 |               |      |               |        |            |                | 1        |                |          |
| 5/8/2001            |       |          |       |              |                |                   |                 |               |      |               |        |            |                |          | 1              |          |
| 5/14/2001           |       | 34       | 0.007 | <1           | <.01           | 178               | <.03            | <.005         | 5.2  | <.01          | 0.587  | <.005      |                | <.005    | <.03           | 0.02     |
| 5/23/2001           |       |          |       |              |                |                   |                 |               |      |               |        |            |                |          | 1              |          |
| 5/30/2001           |       |          |       |              |                |                   |                 |               |      |               |        |            |                |          |                |          |
| 6/8/2001            |       |          |       |              |                |                   |                 |               |      |               |        |            |                |          |                |          |
| 6/14/2001           |       |          |       |              |                |                   |                 |               |      | <u> </u>      |        |            |                | <u> </u> |                |          |
| 6/17/2001           |       | 40       | 0.059 | <1           | <.01           | 191               | <.03            | <.005         | 7.4  | 0.02          | 0.638  | 0.016      |                | <.005    | <.03           | 0.09     |
| 6/21/2001           |       |          |       |              |                |                   |                 |               |      |               |        |            |                |          |                |          |
| 6/29/2001           |       |          |       |              |                |                   |                 |               |      |               |        |            |                |          |                |          |
| 7/14/2001           |       | 32       | 0.021 | <1           | <.01           | 169               | <.03            | <.005         | 8.7  | 0.02          | 0.608  | <.005      |                | <.005    | <.03           | 0.05     |
| 8/14/2001           |       | 42       | 0.022 | <1           | <0.01          | 224               | <0.03           | <0.005        | 10.3 | 0.01          | 0.744  | <0.005     |                | <0.005   | <0.03          | <0.01    |
|                     |       |          | 0.010 |              | -0.01          |                   |                 |               |      |               |        |            |                |          |                |          |
| 9/17/2001           |       | 40       | 0.018 | <1           | <0.01          | 202               | <0.03           | <0.005        | 8.9  | <0.01         | 0.673  | <0.005     |                | <0.005   | <0.03          | 0.02     |
| 10/15/2001          |       | 40       | 0.019 | ~1           | <0.01          |                   |                 | -0.007        |      |               |        |            |                |          |                | <u> </u> |
| 11/13/2001          |       | 40       |       | <1           |                | 220               | <0.03           | <0.005        | 9.1  | <0.01         | 0.712  | <0.005     |                | <0.005   | <0.03          | <0.01    |
| 12/8/2001           |       |          | 0.013 | 0.02         | <0.01          | 214               | 0.03            | <0.005        | 8.5  | 0.07          | 0.669  | 0.012      |                | 0.007    | <0.03          | 0.02     |
| 12/14/2001          |       |          |       | ļ            |                |                   |                 |               |      |               |        |            | L              |          |                |          |
| 12/14/2001          |       | 33       | 0.011 | <0.01        | 40.01          | 100               | 10.03           | .0.000        |      |               | 0 000  |            |                |          |                |          |
| 12/15/2001          |       | 33       | 0.011 | <0.01        | <0.01          | 188               | <0.03           | <0.005        | 8    | 0.04          | 0.626  | <0.005     | []             | <0.005   | <0.03          | 0.04     |
| 12/20/2001          |       |          |       |              |                |                   |                 |               |      |               |        |            |                |          |                |          |
| 1/15/2002           |       | 38       | 0.014 | <0.01        | <0.01          | 100               | -0.02           | 0 031         | 0.5  | 0.00          | A (7   |            |                |          |                | ·        |
| 2/12/2002           |       | 38       | 0.014 | <0.01        | <0.01          | 186               | <0.03           | 0.011         | 8.5  | 0.03          | 0.63   | <0.005     |                | <0.005   | <0.03          | 0.01     |
| 3/12/2002           |       | 35       | 0.012 | <0.01        |                | 131               | <0.03           | <0.005        | 7.7  | 0.05          | 0.527  | <0.005     |                | <0.005   | <0.03          | <0.01    |
| 4/15/2002           |       | 30       | 0.011 | <0.01        | <0.01<br><0.01 | <u>163</u><br>186 | <0.03<br><0.03  | <0.005        | 8.5  | 0.02          | 0.613  | <0.005     |                | <0.005   | <0.03          | <0.01    |
| 5/13/2002           |       | 37       | 0.014 | <0.01        | <0.01          | 211               | <0.03           | <0.005        | 8.2  | 0.02          | 0.595  | <0.005     |                | <0.005   | <0.03          | <0.01    |
| 6/16/2002           |       | 1,       | 0.010 | 20.01        | U              | 211<br>           | ~0.03           | <b>NULUUS</b> | 0.5  | 0.03          | 0.045  | <0.005     |                | <0.005   | <0.03          | <0.01    |
| 6/16/2002           |       | 31.4     | 0.01  | <0.01        | 0.003          | 171.2             | 0.007           | <0.005        | 8.1  | 0.01          | 0.536  | <0.001     |                | 20.001   |                |          |
| 1                   |       | 2219     | 0-01  |              | 0.005          |                   | 0.007           | ~0.003        | 0.1  | 0.01          | 0.000  | N0.001     |                | <0.001   | <0.03          | <0.001   |

| BEALDON         Date         MO-T         NH-T         NH-T         PF-T         SF-T                                                                                                                                                                                       | L mg/L mg/<br>0.001<br>6 <0.001<br>1 <0.001<br><0.001<br><0.001<br><0.001 | V-T<br>Li<br>0.001<br>0.005<br>0.005<br>0.005<br>0.003<br>0.003<br>0.003 | <pre>&gt; W-T.<br/>mg/L<br/>&lt;0.03<br/>&lt;0.03<br/>&lt;0.03<br/>&lt;0.03<br/>&lt;0.03<br/>&lt;0.03<br/>&lt;0.03<br/>&lt;0.03<br/>&lt;0.03</pre> | 2N-T<br>mg/L<br>0.009<br>0.022<br>0.016 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.001<br>6 <0.001<br>1 <0.001<br><0.001<br><0.001                         | 0.001                                                                    | <0.03                                                                                                                                              | 0.009                                   |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.001<br>6 <0.001<br>1 <0.001<br><0.001<br><0.001                         | 0.001                                                                    | <0.03                                                                                                                                              | 0.009                                   |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5 <0.001                                                                  | 0.005                                                                    | <0.03                                                                                                                                              | 0.022                                   |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5 <0.001                                                                  | 0.005                                                                    | <0.03                                                                                                                                              | 0.022                                   |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <0.001                                                                    | 0.005                                                                    | <0.03                                                                                                                                              | 0.016                                   |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <0.001                                                                    | 0.005                                                                    | <0.03                                                                                                                                              | 0.016                                   |
| 9/12/2002       9/12/2002       9/16/2002       9/16/2002       9/16/2002       9/16/2002       9/16/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002       9/27/2002                                                                                    | <0.001                                                                    | 0.003                                                                    |                                                                                                                                                    |                                         |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <0.001                                                                    | 0.003                                                                    |                                                                                                                                                    |                                         |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <0.001                                                                    | 0.003                                                                    |                                                                                                                                                    |                                         |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <0.001                                                                    | 0.003                                                                    |                                                                                                                                                    |                                         |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <0.001                                                                    | 0.003                                                                    |                                                                                                                                                    |                                         |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                           | 0.003                                                                    |                                                                                                                                                    |                                         |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                           |                                                                          | <0.03                                                                                                                                              | 0.017                                   |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                           |                                                                          | <0.03                                                                                                                                              | 0.017                                   |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                           |                                                                          | <0.03                                                                                                                                              | 0.017                                   |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                           |                                                                          | <0.03                                                                                                                                              | 0.017                                   |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                           |                                                                          | <0.03                                                                                                                                              | 0.017                                   |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                           |                                                                          | <0.03                                                                                                                                              | 0.017                                   |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                           |                                                                          | <0.03                                                                                                                                              | 0.017                                   |
| 10/21/2002       10/21/2002       10/21/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002       10/20/2002 <td></td> <td></td> <td>&lt;0.03</td> <td>0.017</td> |                                                                           |                                                                          | <0.03                                                                                                                                              | 0.017                                   |
| 10/21/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.001                                                                    | 0.002                                                                    |                                                                                                                                                    |                                         |
| 10/29/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.001                                                                    | 0.002                                                                    |                                                                                                                                                    |                                         |
| 10/29/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.001                                                                    | 0.002                                                                    |                                                                                                                                                    | L                                       |
| 11/5/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002       11/12/2002 <td>&lt;0.001</td> <td>0.002</td> <td></td> <td></td> | <0.001                                                                    | 0.002                                                                    |                                                                                                                                                    |                                         |
| 11/12/2002         38.9         0.013         <0.01         <0.002         218.2         <0.005         8.8         0.007         0.68           11/12/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2002         11/26/2                        | <0.001                                                                    | 0.002                                                                    |                                                                                                                                                    |                                         |
| 11/12/2002         0.002         38.9         0.013         <0.01         <0.002         218.2         <0.002         <0.005         8.8         0.007         0.68           11/19/2002         11/26/2002         11/26/2002         11/26/2002         11/2002         11/2002         11/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/210/2002         11/2               | <0.001                                                                    | 0.002                                                                    |                                                                                                                                                    |                                         |
| 11/19/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.001                                                                    | 1 0.002                                                                  |                                                                                                                                                    |                                         |
| 11/26/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                           |                                                                          | <0.03                                                                                                                                              | 0.004                                   |
| 12/3/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                           |                                                                          | +                                                                                                                                                  |                                         |
| 12/10/2002         0.004         35.5         0.013         0.006         210.5         0.004         <0.005         9.8         0.003         0.635                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                           |                                                                          |                                                                                                                                                    | j/                                      |
| 12/10/2002 0.004 35.5 0.013 <0.01 0.006 210.5 0.004 <0.005 9.8 0.003 0.635                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                           |                                                                          |                                                                                                                                                    | <u>∤</u>                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5 <0.001                                                                  | <0.001                                                                   | <0.03                                                                                                                                              | 0.025                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                           |                                                                          | <0.03                                                                                                                                              | 0.025                                   |
| 12/17/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                           |                                                                          |                                                                                                                                                    |                                         |
| 12/24/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                           |                                                                          |                                                                                                                                                    |                                         |
| 12/31/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                           |                                                                          |                                                                                                                                                    |                                         |
| X14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                           |                                                                          |                                                                                                                                                    | I                                       |
| 1/12/1998 0.004 14 0.015 <.04 <.02 98 <.03 <.03 2.3 0.01 0.339                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <.005                                                                     | <.005                                                                    | <.03                                                                                                                                               | 0.06                                    |
| 2/24/1998 0.005 10 0.007 2.76 <.02 97 <.03 <.03 5.3 <.01 0.261                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.008                                                                     | 0.005                                                                    | <.03                                                                                                                                               | 0.03                                    |
| 3/17/1998 0.006 12 <.005 <.04 <.02 170 <.03 <.03 4.3 <.01 0.276                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5 <.005                                                                   | 0.014                                                                    | <.03                                                                                                                                               | 0.02                                    |
| <u>4/13/1998 0.003 0 0.005 &lt;.04 &lt;.02 91 &lt;.03 &lt;.03 4.3 &lt;.01 0.277</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <.005                                                                     | <.005                                                                    | <.03                                                                                                                                               | 0.32                                    |
| 4/16/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                           |                                                                          |                                                                                                                                                    |                                         |
| 4/22/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                           |                                                                          |                                                                                                                                                    |                                         |
| 4/24/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                           |                                                                          |                                                                                                                                                    | L                                       |
| 4/26/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                           |                                                                          | ļ                                                                                                                                                  |                                         |
| 4/30/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                           |                                                                          |                                                                                                                                                    |                                         |
| 5/18/1998 <.002 3 0.007 1.35 <.02 8 0.05 <.03 1.9 <.01 0.087                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                           | <.005                                                                    | <.03                                                                                                                                               | 0.3                                     |
| <u>6/15/1998</u> <.002 4 <.005 1.05 <.02 16 <.03 <.03 2.4 <.01 0.131                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,008                                                                     | <.005                                                                    | <.03                                                                                                                                               | 0.06                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                           |                                                                          |                                                                                                                                                    |                                         |
| 6/20/1998         <.002         4         0.008         0.68         <.02         <.03         2.1         <.01         0.099           6/21/1998         0.003         5         <.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                           | 0.012                                                                    | 0.03                                                                                                                                               | 0.09                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                           | <.005                                                                    | <.03                                                                                                                                               | 0.18                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                           | <.005                                                                    | <.03                                                                                                                                               | 0.18                                    |
| 7/21/1998 0.006 7 <.005 <.04 <.02 8 <.03 <.03 3 <.01 0.197<br>8/4/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <.005                                                                     | <.005                                                                    | <.03                                                                                                                                               | 0.05                                    |
| <u>8/4/1998</u> 0.014 10 <.005 <.04 0.02 15 0.04 <.03 3.4 <.01 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.01                                                                      | - 000                                                                    | 1 02                                                                                                                                               | <u> </u>                                |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                           | <.005                                                                    | <.03                                                                                                                                               | 0.13                                    |
| 10/19/1998 0.003 8 0.015 1.2 <.02 35.2 <.03 <.03 2.7 <.01 0.189                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                           | <.005                                                                    | <.03                                                                                                                                               | 0.07                                    |
| 11/17/1998 0.009 13 0.019 1.29 <.01 50 <.03 <.03 5.1 <.01 0.29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                           | <.005                                                                    | <.03                                                                                                                                               | 0.08                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                           | 0.044                                                                    | <.03                                                                                                                                               | 0.09                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                           | <.005                                                                    | <.03                                                                                                                                               | 0.06                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.013                                                                     | <.005                                                                    | <.03                                                                                                                                               | 0.03                                    |
| 3/17/1999 <.002 17 <.005 1.07 <.01 89 <.03 <.03 5.2 <.01 0.378                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                           |                                                                          |                                                                                                                                                    |                                         |

| Station Date | MO-T          | NA-T  | NI-T     | P+T                                              | PB-T             | 8-T                                                                                                            | 8B-T              | SE-T    | SI-T                                                                                                            | BN-T            | Noteles in the second | hatheleses here and |      | Transform of London                     | Manager and another |          |
|--------------|---------------|-------|----------|--------------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------------|-------------------|---------|-----------------------------------------------------------------------------------------------------------------|-----------------|-----------------------|---------------------|------|-----------------------------------------|---------------------|----------|
|              | 1511566655665 | 101 2 |          | UE/SOUTH AND AND AND AND AND AND AND AND AND AND | VISIONALEINNENSI | 8-1                                                                                                            | Million Field and | 98-7    | Sevent and a seven seven seven seven seven seven seven seven seven seven seven seven seven seven seven seven se | BNWT            | 6R-T                  | TI-T                | TL-T | V-T                                     | W-T                 | ZN-T     |
|              | mg/L          | mg/L  | mg/L     | mg/L                                             | mg/L             | mg/L                                                                                                           | mg/L              | mg/L    | mg/L                                                                                                            | mg/L            |                       |                     |      | 100000000000000000000000000000000000000 |                     |          |
| 4/20/1999    | <.002         | 13    | <.005    | 0.45                                             | <.01             | 50                                                                                                             | <.03              | <.03    | 4.2                                                                                                             | <.01            | 0.321                 | 0,023               | mg/L | mg/L                                    | mg/L                | mg/L     |
| 5/17/1999    | 0.013         | 2     | <.005    | <.04                                             | <.01             |                                                                                                                | <.03              | <.03    | 2                                                                                                               | <.01            | 0.021                 |                     |      | <.005                                   | <.03                | 0.03     |
| 6/25/1999    |               |       |          | <u></u>                                          | ~.01             |                                                                                                                | ~.03              |         | 4                                                                                                               | <u> &lt;.01</u> | 0.09                  | <.005               |      | <.005                                   | <.03                | 0.07     |
| 7/3/1999     | <.002         | 2     | <.005    | <.04                                             | <.01             | 14                                                                                                             | 0.05              | <.03    | 6.2                                                                                                             | <.01            | 0.122                 |                     | }    |                                         |                     | <u> </u> |
| 7/27/1999    | 0.011         | 1     | 0.008    | <.04                                             | <.01             | 12                                                                                                             | <.03              | <.005   | 3.4                                                                                                             | <.01            | 0.122                 | <.005               |      | 0.007                                   | <.03                | 0.05     |
| 7/29/1999    |               |       |          |                                                  | ~.01             | <u> </u>                                                                                                       | N.03              | 1 2.005 | 3.4                                                                                                             | <u> </u>        | 0.104                 | 0.021               |      | 0.017                                   | <.03                | 0.04     |
| 8/12/1999    | 0.006         | 8     | <.005    | <.04                                             | <.01             | 46                                                                                                             | <.03              | <.005   | 5.4                                                                                                             | <.01            | 0.219                 | <.005               |      |                                         |                     |          |
| 8/31/1999    |               |       |          |                                                  |                  |                                                                                                                | ~.05              | <u></u> | <u> </u>                                                                                                        | <u> </u>        | 0.219                 | <.005               |      | <.005                                   | <.03                | 0.08     |
| 9/10/1999    | <.002         | 7     | <.005    | <.04                                             | <.01             | 42                                                                                                             | <.03              | <.005   | 3.5                                                                                                             | <.01            | 0.188                 | 0.013               |      | 0.000                                   |                     |          |
| 10/29/1999   | <.002         | 6     | <.005    | <.04                                             | <.01             | 23                                                                                                             | <.03              | <.005   | 3.8                                                                                                             | <.01            | 0.188                 | <.005               |      | 0.006                                   | <.03                | 0.05     |
| 11/22/1999   | <.002         | 8     | 0.103    | <.04                                             | <.01             | 31                                                                                                             | 0.05              | <.005   | 6.6                                                                                                             | <.01            | 0.277                 |                     |      | <.005                                   | <.03                | 0.02     |
| 12/14/1999   | 0.009         | 7     | 0.025    | <.04                                             | <.01             | 36                                                                                                             | <.03              | <.005   | 3.4                                                                                                             | <.01            | 0.277                 | 0.016               |      | <.005                                   | <.03                | 0.05     |
| 1/27/2000    | <.002         | 14    | 0.011    | 1                                                | 0.02             |                                                                                                                | <.03              | <.005   | 4.4                                                                                                             | <.01            | 0.307                 | 0.013               |      | 0.015                                   | <.03                | 0.08     |
| 2/28/2000    | <.002         | 13    | 0.007    | <1                                               | 0.02             | 62                                                                                                             | <.03              | <.005   | 5.3                                                                                                             | <.01            |                       | 0.022               |      | <.005                                   | <.03                | 0.02     |
| 3/23/2000    | <.002         | 9     | 0.009    | <1                                               | <.01             | 63                                                                                                             | <.03              | <.005   | 5.9                                                                                                             | <.01            | 0.346                 | 0.027               |      | <.005                                   | <.03                | 0.64     |
| 4/27/2000    |               | 16    | <.005    | <1                                               | 0.03             | 05                                                                                                             | <.03              | <.005   | 5.1                                                                                                             | <.01            | 0.376                 | <.005               |      | <.005                                   | <.03                | 0.03     |
| 5/15/2000    | <.002         | <1    | <.005    | <1                                               | <.01             |                                                                                                                | <.03              | <.005   |                                                                                                                 |                 | 0.387                 | 0.047               |      | <.005                                   | <.03                | 0.09     |
| 6/26/2000    | <.002         | 4     | <.005    | 7                                                | <.01             |                                                                                                                | <.03              | <.005   | 4                                                                                                               | <.01            | 0.24                  | 0.021               |      | <.005                                   | <.03                | 0.07     |
| 7/25/2000    | <.002         | 9     | 0.014    | <1                                               | <.01             |                                                                                                                | <.03              | <.005   |                                                                                                                 | <.01            | 0.137                 | 0.029               |      | <.005                                   | <.03                | 0.1      |
| 8/29/2000    | <.002         | 5     | 0.019    | <1                                               | <.01             |                                                                                                                | <.03              | <.005   | 3.1                                                                                                             | <.01            | 0.305                 | 0.024               |      | 0.022                                   | <.03                | 0.14     |
| 9/25/2000    | <0.01         | 2     | <0.015   | <0.3                                             | <0.01            |                                                                                                                | <0.2              |         | 4.9                                                                                                             | <.01            | 0.139                 | 0.019               |      | <.005                                   | <.03                | 0.1      |
| 10/28/2002   | ~0.01         | 4     | <u> </u> | <u> </u>                                         | <0.05            |                                                                                                                | <0.2              | <0.2    | 4.49                                                                                                            | <0.03           | 0.12                  | <0.01               | <0.2 | <0.03                                   |                     | 0.01     |
| 10/29/2002   | <.002         | 7     | <.005    | 3                                                | <.01             | 28                                                                                                             | 4 03              | 1 005   |                                                                                                                 |                 |                       |                     |      |                                         |                     |          |
| 11/13/2000   | 0.01          | 7     | <0.005   | <0.01                                            | 0.02             | 28                                                                                                             | <.03              | <.005   | 5.2                                                                                                             | <.01            | 0.195                 | 0.062               |      | 0.014                                   | <.03                | 0.07     |
| 11/18/2000   | <0.01         | 7     | <0.05    | <0.3                                             | <0.02            | 28                                                                                                             |                   | 0.071   | 5                                                                                                               | 0.03            | 0.233                 | <0.005              |      | 0.006                                   | 0.05                | 0.07     |
| 12/14/2000   | <0.01         | 7     | <0.05    | <0.3                                             | <0.05            |                                                                                                                | <0.2              | <0.2    | 5.23                                                                                                            | <0.03           | 0.244                 | <0.01               | <0.2 | <0.03                                   |                     | 0.088    |
| 1/13/2001    | <.002         | 8     | 0.012    | <1                                               | <.01             | 30                                                                                                             | <0.2              | <0.2    | 5.47                                                                                                            | <0.03           | 0.263                 | <0.01               | <0.2 | <0.03                                   |                     | 0.051    |
| 2/10/2001    | <.002         | 15    | <.005    | <1                                               |                  |                                                                                                                | 0.03              | <.005   | 4.8                                                                                                             | <.01            | 0.365                 | 0.022               |      | <.005                                   | <.03                | 0.07     |
| 3/10/2001    | <.002         | 13.7  | <.005    | <1                                               | <.01<br><.01     | 54<br>46.2                                                                                                     | <.03              | <.005   | 5.2                                                                                                             | <.01            | 0.144                 | 0.035               |      | 0.052                                   | <.03                | 0.11     |
| 4/16/2001    | <.002         | 11    | <.005    | <1                                               | <.01             | <u>46.∠</u><br>54                                                                                              | <.03              | <.005   | 4.7                                                                                                             | <.01            | 0.3                   | <.005               |      | 0.008                                   | <.03                | 0.04     |
| 5/14/2001    | 0.013         | 8     | 0.016    | <1                                               | 0.12             | 42                                                                                                             | 0.07              | <.005   | 4.4                                                                                                             | <.01            | 0.33                  | <.005               |      | <.005                                   | <.03                | 0.08     |
| 6/17/2001    | <.002         | 4     | <.005    | <1                                               | <.01             | 42<br>6                                                                                                        | 0.07              | <.005   | 3.1                                                                                                             | <.01            | 0.233                 | 0.007               |      | 0.021                                   | <.03                | 0.12     |
| 7/14/2001    | <.002         | 6     | <.005    | <1                                               | <.01             |                                                                                                                | <.03              | 0.009   | 1.4                                                                                                             | 0.02            | 0.08                  | 0.014               |      | <.005                                   | <.03                | 0.03     |
| 8/14/2001    | <0.002        | 4     | 0.006    | <1                                               | <0.01            | 48                                                                                                             | <0.03             | <0.009  | 4.8                                                                                                             | <.01            | 0.171                 | <.005               |      | <.005                                   | <.03                | 0.04     |
| 9/17/2001    | <0.002        | 5     | <0.005   | <1                                               | <0.01            | 25                                                                                                             | <0.03             | <0.005  | 3.7                                                                                                             | <0.01           | 0.286                 | 0.014               |      | <0.005                                  | <0.03               | 0.04     |
| 10/15/2001   | <0.002        | 12    | 0.005    | <1                                               | <0.01            | 100                                                                                                            | <0.03             | 0.011   | 5.1                                                                                                             | <0.01<br><0.01  | 0.195                 | <0.005              |      | <0.005                                  | <0.03               | 0.03     |
| 11/13/2001   | 0.01          | 7     | <0.005   | <0.01                                            | 0.02             | 28                                                                                                             | 0.08              | 0.011   |                                                                                                                 |                 | 0.362                 | <0.005              |      | <0.005                                  | <0.03               | 0.11     |
| 12/14/2001   | 0.02          | ·     | ~0.005   | <u></u>                                          | 0.02             | <u>~~</u>                                                                                                      | 0.08              | 0.071   | 5                                                                                                               | 0.03            | 0.233                 | <0.005              |      | 0.006                                   | 0.05                | 0.07     |
| 12/15/2001   | 0.006         | 11    | 0.017    | <0.01                                            | <0.01            | 81                                                                                                             | <0.03             | <0.005  | 1.0                                                                                                             | -0.01           |                       |                     |      |                                         |                     |          |
| 1/15/2002    | 0.002         | 7     | <0.005   | 0.01                                             | <0.01            | 25                                                                                                             | <0.03             | <0.005  | 4.8                                                                                                             | <0.01           | 0.325                 | 0.006               |      | 0.006                                   | <0.03               | 0.08     |
| 2/12/2002    | 0.002         | 8     | <0.005   | <0.01                                            | 0.01             | 25                                                                                                             | <0.03             | <0.005  |                                                                                                                 | <0.01           | 0.238                 | <0.005              |      | <0.005                                  | <0.03               | 0.05     |
| 3/12/2002    | <0.002        | 14    | 0.005    | 0.04                                             |                  | the second second second second second second second second second second second second second second second s |                   |         | 5.3                                                                                                             | 0.03            | 0.234                 | <0.005              |      | <0.005                                  | <0.03               | 0.02     |
| 4/15/2002    | <0.002        | 15    | <0.005   | <0.04                                            | <0.01<br><0.01   | 57<br>66                                                                                                       | <0.03             | <0.005  | 6.4                                                                                                             | <0.01           | 0.36                  | <0.005              |      | <0.005                                  | <0.03               | 0.03     |
| 5/13/2002    | 0.002         | 5     | 0.009    | 0.01                                             |                  |                                                                                                                |                   | <0.005  | 6                                                                                                               | 0.04            | 0.353                 | <0.005              |      | <0.005                                  | <0.03               | 0.03     |
| 6/15/2002    | 0.005         | 2.8   | 0.009    |                                                  | <0.01            | 12                                                                                                             | <0.03             | <0.005  | 4                                                                                                               | <0.01           | 0.134                 | 0.02                |      | <0.005                                  | <0.03               | 0.07     |
| 7/16/2002    | 0.007         | 6.8   |          | 0.01                                             | 0.007            | 8.9                                                                                                            | 0.004             | <0.005  | 3.8                                                                                                             | 0.01            | 0.108                 | 0.004               |      | <0.001                                  | <0.03               | 0.031    |
| 8/12/2002    | <0.009        | 4.6   | 0.007    | 0.07                                             | 0.003            | 52.3                                                                                                           | 0.037             | <0.005  | 4.2                                                                                                             | <0.002          | 0.213                 | <0.001              |      | <0.001                                  | <0.03               | 0.034    |
| 9/16/2002    | 0.002         |       |          | 0.02                                             | 0.017            | 12.8                                                                                                           | 0.003             | <0.005  | 3.6                                                                                                             | 0.003           | 0.151                 | <0.001              |      | 0.001                                   | <0.03               | 0.018    |
| 10/15/2002   | 0.002         | 5.7   | 0.002    | 0.13                                             | 0.012            | 38.2                                                                                                           | <0.002            | <0.005  | 4.4                                                                                                             | <0.002          | 0.203                 | <0.001              |      | 0.002                                   | <0.03               | 0.107    |
|              | 0.002         | 4.2   | 0.004    | <0.01                                            | 0.002            | 12.3                                                                                                           | <0.002            | <0.005  | 4.7                                                                                                             | 0.003           | 0.163                 | <0.001              |      | <0.001                                  | <0.03               | 0.031    |
| 11/11/2002   |               |       |          |                                                  |                  |                                                                                                                |                   |         |                                                                                                                 |                 | ]                     |                     |      |                                         |                     |          |
|              | 0.002         | 5.5   | 0.001    | 0.02                                             | 0.004            | 20.7                                                                                                           | <0.002            | <0.005  | 5.5                                                                                                             | 0.002           | 0.212                 | <0.001              |      | 0.003                                   | <0.03               | 0.04     |
| 12/10/2002   | <0.001        | 6     | 0.002    | <0.01                                            | 0.01             | 29.9                                                                                                           | <0.002            | <0.005  | 6.2                                                                                                             | 0.003           | 0.245                 | <0.001              |      | <0.001                                  | <0.03               | 0.059    |

| International access of angle instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant instant i | Station    | Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | AG-D                                   | JL-D             | AS-D     | B-D           | BA-D                                                                                                            | BE-D     | BI-D  | CA-D  | CD-D   | со-р                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CR-D   | 10000000000000000000000000000000000000 |                                                                                                                | states and the second state | the state of the sectors     | Londen Londer Live |                | And a second          |                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------|----------|---------------|-----------------------------------------------------------------------------------------------------------------|----------|-------|-------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|--------------------|----------------|-----------------------|-----------------------------------------|
| TOD         LULLION         Control         Control <thcontrol< th=""> <thcontrol< th=""> <thcontr< th=""><th></th><th>10. 187. 196. 495. 49</th><th>00000999999</th><th>Exception of the</th><th></th><th>Sector Market</th><th>BA-D</th><th></th><th></th><th>CA-D</th><th></th><th></th><th>CR-D</th><th>CU-D</th><th>FE-D</th><th>HG-D</th><th>K-D</th><th>LA-D</th><th>LI-D</th><th>MG-D</th><th>MN-D</th></thcontr<></thcontrol<></thcontrol<>                                                                                                                                                                                                                                                                                                                                                                                                    |            | 10. 187. 196. 495. 49                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 00000999999                            | Exception of the |          | Sector Market | BA-D                                                                                                            |          |       | CA-D  |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CR-D   | CU-D                                   | FE-D                                                                                                           | HG-D                        | K-D                          | LA-D               | LI-D           | MG-D                  | MN-D                                    |
| TED         LIDIAL         TED         LIDIAL         TED         ED         TED         TE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | NEROEPHERA | kanga di kangena                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | mg/L                                   | mg/L             | mg/L     | mg/L          | Da/L                                                                                                            | mg/L     | mg/L  | mar/L | mo/L   | mar / L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | mc / L | mer/Te                                 | mer / Te                                                                                                       | mer / Te                    | ma/ti                        | Sector Street      |                | 1000 Contractor - 100 |                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FDU        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |                  |          |               |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                        | Provide Alley & Aprila                                                                                         | 1447 1                      | and the second second second | SECONDAL TAGE      | Same ind i Day | ಂದ ಗಾರ್ಯಗಿ ಒಂ         | ng/L                                    |
| bilbletegi c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi         c.egi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |                  |          |               |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                        |                                                                                                                |                             |                              | -                  |                |                       |                                         |
| LD224103                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |                  |          | <.05          | 0.027                                                                                                           | 0.002    | <.04  | 4.4   | <.001  | <.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <.005  | <.002                                  | <.01                                                                                                           |                             | 1                            | 0.019              |                | 0.9                   | 0.03                                    |
| ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID         ID <thid< th="">         ID         ID         ID<!--</td--><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>&lt;.01</td><td></td><td>3</td><td>&lt;.005</td><td></td><td></td><td>&lt;.01</td></thid<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |                  |          |               |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                        | <.01                                                                                                           |                             | 3                            | <.005              |                |                       | <.01                                    |
| abs/1088         c.000         c.001         c.001 <thc.011< th="">         c.001         c.001         &lt;</thc.011<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            | 6/11/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <0.2                                   | 0.144            | 0.009    | <0.05         | 0.124                                                                                                           | 0.5      | <0.01 | 2.2   | 0.2    | 0.003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.001  | 0.002                                  | 0.063                                                                                                          |                             | 0.3                          | <0.001             |                | 0.6                   | 0.002                                   |
| 92/1488         c.002         c.003         c.003 <thc.013< th="">         c.01         c.01         <thc< td=""><td>RZ</td><td>0.15.11000</td><td>- 0000</td><td>0.05</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thc<></thc.013<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RZ         | 0.15.11000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | - 0000                                 | 0.05             |          |               |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                        |                                                                                                                |                             |                              |                    |                |                       |                                         |
| 1/12/1298         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |                  |          |               |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                        |                                                                                                                |                             |                              |                    |                |                       | 0.776                                   |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        | ~.03             | <u> </u> | <u> </u>      | 0.037                                                                                                           | <u></u>  | < 04  | 30.D  | <.001  | <.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <.005  | 0.002                                  | 0.02                                                                                                           |                             | 1.5                          | <.005              |                | 12.3                  | 0.82                                    |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        | 0.049            | <.001    | 0.012         | 0.0417                                                                                                          | 0.0003   | <.001 | 43.4  | < 0001 | 0.0016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | < 0002 | 0.0045                                 | 0.090                                                                                                          |                             | 1 66                         | 0.0010             |                | 0.00                  | 0.1550                                  |
| BA         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C <thc< th="">         C         C         C</thc<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            | 9/5/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <.0001                                 | 0.015            | <.001    |               |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                        |                                                                                                                |                             |                              |                    |                |                       |                                         |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | R3         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |                  |          |               |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                        | 0.040                                                                                                          |                             | 0.005                        | \$10002            |                | 5.102                 | 0.098                                   |
| 9/9/1998 <th< td=""><td></td><td>8/5/1998</td><td>&lt;.0006</td><td>&lt;.01</td><td>&lt;.004</td><td>0.75</td><td>0.0296</td><td>0.0002</td><td>&lt;.008</td><td>36.44</td><td>&lt;.0004</td><td>&lt;.001</td><td>0.003</td><td>&lt;.0004</td><td>&lt;.002</td><td>&lt;.1</td><td>2.3</td><td>&lt; 001</td><td></td><td>3 5</td><td>0.007</td></th<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            | 8/5/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <.0006                                 | <.01             | <.004    | 0.75          | 0.0296                                                                                                          | 0.0002   | <.008 | 36.44 | <.0004 | <.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.003  | <.0004                                 | <.002                                                                                                          | <.1                         | 2.3                          | < 001              |                | 3 5                   | 0.007                                   |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <.001                                  | <.05             | <.005    | <.05          | 0.035                                                                                                           | <.001    | <.04  | 52.7  | <.001  | <.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <.005  | 0.003                                  |                                                                                                                |                             |                              |                    |                |                       |                                         |
| 9/6/2000         0.0001         0.0021         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.0003         0.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ļ                                      |                  |          |               |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                        |                                                                                                                |                             |                              |                    |                |                       |                                         |
| At                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            | and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se |                                        |                  |          |               |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <.0002 | 0.0042                                 | 0.071                                                                                                          |                             | 1.44                         | 0.0012             |                | 8.431                 | 0.4098                                  |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ~ 4        | 9/6/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <.0001                                 | 0.016            | <.001    | 0.018         | 0.0458                                                                                                          | 0.0002   | <.001 | 23.09 | <.0001 | 0.0003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <.0002 | <.0001                                 | 0.038                                                                                                          |                             | 0.818                        | <.0002             |                | 5.043                 | 0.076                                   |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | KG         | D/E (1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1 0000                                 |                  |          | 0.00          |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                        |                                                                                                                |                             |                              | ļ                  |                |                       |                                         |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |                  |          |               |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                        |                                                                                                                |                             |                              |                    |                |                       | 0.228                                   |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        | <.05             | <.005    | <.05          | 0.041                                                                                                           | <.001    | <.04  | 50.5  | <.001  | <.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <.005  | <.002                                  | <.01                                                                                                           | <.1                         | 1.1                          | <.005              |                | 10.8                  | 0.39                                    |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        | 0.07             | <.005    | 0.07          | 0.022                                                                                                           | ¢ 001    | e 0.4 | 81.2  | < 001  | < 005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0 521  | 0.014                                  | - 01                                                                                                           |                             | -                            |                    |                |                       |                                         |
| BS         Image         Im                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |                  |          |               |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                        |                                                                                                                |                             |                              |                    |                |                       |                                         |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | R5         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |                  |          |               |                                                                                                                 | 0.0002   |       |       | 4.0001 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4.0002 | 0.0035                                 | 0.039                                                                                                          |                             | 1.22                         | 0.0013             |                | 7.603                 | 0.2313                                  |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | 8/5/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <.0006                                 | <.01             | <.004    | 0.03          | 0.0582                                                                                                          | 0.0003   | <.008 | 39.52 | <.0004 | <.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.001  | 0.0028                                 | 0 012                                                                                                          | د 1                         | 15                           | 0.004              |                | 10                    | 0.04                                    |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | 9/9/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <.001                                  | <.05             | <.005    | <.05          |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1      |                                        |                                                                                                                |                             |                              |                    |                |                       |                                         |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            | and the state of the state                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        |                  |          |               |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                        |                                                                                                                |                             |                              |                    |                | 10.7                  |                                         |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |                  |          |               |                                                                                                                 |          |       | 31.9  | <.0001 | <.0002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <.0002 | 0.0039                                 | 0.053                                                                                                          |                             | 0.87                         | 0.0023             |                | 8.3                   | 0.0285                                  |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | 9/6/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <.0001                                 | 0.031            | <.001    | 0.009         | 0.0616                                                                                                          | 0.0003   | <.001 | 29.72 | <.0001 | 0.0002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <.0002 | 0.0015                                 | 0.028                                                                                                          |                             | 0.967                        | <.0002             |                | 8.094                 | 0.013                                   |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <u>R6</u>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |                  |          |               |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                        |                                                                                                                |                             |                              |                    |                |                       |                                         |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |                  |          |               |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                        |                                                                                                                |                             |                              |                    |                |                       | 0.004                                   |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <u></u>                                | <.05             | <.005    | <.05          | 0.038                                                                                                           | <.001    | <.04  | 39.6  | 0.001  | <.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.023  | 0.004                                  | <.01                                                                                                           | <.1                         | <1                           | <.005              |                | 10.2                  | 0.04                                    |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <.0001                                 | 0.027            | < 001    | < 002         | 0.084                                                                                                           | 0 0002   | < 001 | 30.7  | < 0001 | × 0000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | < 0002 | 0 0029                                 | 0.047                                                                                                          |                             | 0 77                         |                    |                |                       |                                         |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |                  |          |               |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        | 1                                      |                                                                                                                |                             |                              |                    |                |                       |                                         |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | R7         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |                  |          |               |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                        | 0.045                                                                                                          |                             | 0.9                          | <b>X.000</b> Z     |                | 0.31                  | 0.000                                   |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | 5/19/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                        |                  |          |               |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                        |                                                                                                                |                             |                              |                    |                |                       | i — — — — — — — — — — — — — — — — — — — |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |                  |          |               |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                        |                                                                                                                |                             |                              |                    |                |                       |                                         |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |                  |          |               |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        | 0.0019                                 | 0.035                                                                                                          | <.1                         | 0.5                          | <.001              |                | 4.58                  | 0.007                                   |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        | <.05             | <.005    | <.05          | 0.037                                                                                                           | <.001    | <.04  | 24.4  | <.001  | <.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <.005  | <.002                                  | <.01                                                                                                           | <.1                         | <1                           | <.005              |                | 4.9                   | 0.02                                    |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |                  |          |               |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        | <u> </u>                               |                                                                                                                |                             |                              |                    |                |                       |                                         |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | < 003                                  |                  | 0.005    | 0.00          | 0.017                                                                                                           |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                        |                                                                                                                |                             |                              |                    |                |                       | L                                       |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |                  |          |               |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                        |                                                                                                                |                             |                              |                    |                |                       |                                         |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |                  |          |               |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                        |                                                                                                                |                             |                              |                    |                |                       |                                         |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |                  |          |               |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                        |                                                                                                                |                             |                              |                    |                |                       |                                         |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | 3/26/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                        |                  |          |               |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                        |                                                                                                                | ·                           |                              |                    |                |                       |                                         |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ************************************** |                  |          | <.05          |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                        |                                                                                                                |                             |                              |                    |                |                       | 0.03                                    |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            | the second second second second second second second second second second second second second second second s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |                  |          |               |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                        |                                                                                                                |                             |                              |                    |                |                       | 0.0058                                  |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |                  |          |               |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                        |                                                                                                                |                             | 0.572                        | <.0002             |                | 3.686                 | 0.009                                   |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |                  |          |               |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                        |                                                                                                                |                             |                              |                    |                |                       | <.01                                    |
| 9/8/2001       <0.003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |                  |          |               |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                        |                                                                                                                |                             |                              |                    |                |                       | 0.01                                    |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |                  |          |               | The second second second second second second second second second second second second second second second se |          |       |       |        | and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se |        |                                        |                                                                                                                |                             |                              |                    |                |                       | 0.39                                    |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |                  |          |               |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                        |                                                                                                                |                             |                              |                    |                |                       |                                         |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |                  |          |               |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                        |                                                                                                                |                             |                              |                    |                |                       |                                         |
| w10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |                  |          |               |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                        |                                                                                                                |                             |                              |                    |                |                       |                                         |
| 6/16/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | W10        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        | 0.042            |          |               | 0.130                                                                                                           | <u> </u> |       | ^ /   | ~0.4   | -0.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        | - 41012                                | 0.000                                                                                                          |                             | v./                          | 0.004              |                | 5.3                   | 0.012                                   |
| 7/3/1999       <.003       <.05       <.005       0.2       <.001       <.04       9       <.001       <.005       <.002       0.26       <1       <.005       1.7       0.27         6/3/2000       <.003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            | 6/16/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                        |                  |          |               |                                                                                                                 |          |       |       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                        |                                                                                                                |                             |                              |                    |                |                       | I                                       |
| 6/3/2000         <.003         <.005         <.005         <.002         <.001         <.005         6.8         <.001         <.005         <.002         <.01         1         <.005         1.4         <.01           6/11/2001         <.003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <.003                                  | <.05             | <.005    | 0.2           | <.002                                                                                                           | <.001    | <.04  | 9     | <.001  | <.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <.005  | <.002                                  | 0.26                                                                                                           |                             | <1                           | <.005              |                | 1.7                   | 0.27                                    |
| <u>6/11/2001</u> <.003 <.05 <.005 0.08 0.049 <.001 <.05 8.3 0.001 <.005 <.005 <.002 0.03 <1 <.005 1.2 0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            | 6/3/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <.003                                  | <.05             | <.005    | <.05          |                                                                                                                 |          |       | 6.8   |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                        |                                                                                                                |                             |                              |                    |                |                       |                                         |
| <u>6/11/2002 &lt;0.2 0.093 &lt;0.003 &lt;0.05 0.127 0.3 &lt;0.01 10.6 1.7 0.002 0.002 0.003 0.024 0.5 0.003 1.4 0.005</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        | • • •            |          | 0.08          | 0.049                                                                                                           | <.001    | <.05  | 8.3   | 0.001  | <.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <.005  | <.002                                  | The second second second second second second second second second second second second second second second s |                             |                              |                    |                |                       |                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            | 6/11/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <0.2                                   | 0.093            | <0.003   | <0.05         | 0.127                                                                                                           | 0.3      | <0.01 | 10.6  | 1.7    | 0.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.002  | 0.003                                  | 0.024                                                                                                          |                             | 0.5                          | 0.003              |                | 1.4                   | 0.005                                   |

|       | Date                   | AG-D        | AL-D    | AS-D          | B-D           | BA-D  | BE-D  | BI-D   | CA-D  | Ср-р     | CO-D  | CR-D  | מ-טיט    | FE-D              | нд-р     | к-D     | LA-D        | LI-D | MG-D           | MN-D             |
|-------|------------------------|-------------|---------|---------------|---------------|-------|-------|--------|-------|----------|-------|-------|----------|-------------------|----------|---------|-------------|------|----------------|------------------|
|       |                        | 1999.000.00 |         | <i>國際國際開始</i> | Social States |       |       |        |       |          |       |       |          | 50000000000       |          |         | STEPHERRED. |      | nider alle son | Proteintory (10) |
| X5    |                        | mg/L        | © mg/Is | ារជ្វ/៤       | ng/L          |       | mg/1  | mg/L   | mg/L  | ng/L     | mg/L  | mg/L  | mg/L     | The second second | mg/L     | mg/L    | mg/L        | ng/L | mg/L           | ារជ្វ/៤          |
|       | 1/5/1998               |             |         |               | -             |       |       |        |       |          |       |       | -        |                   |          |         |             |      |                |                  |
|       | 1/5/1998               |             | <.05    | <.02          | 0.08          | 0.07  | <.001 | <.04   | 127.4 | <.002    | <.005 | <.005 | 0.008    | <.01              |          | 4       | <.005       |      | 22             | 0.21             |
|       | 1/12/1998              |             | ļ       |               |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                | 1 0.21           |
|       | 1/12/1998<br>1/19/1998 |             |         | <.02          |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                | l'               |
|       | 1/23/1998              |             |         |               |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
|       | 1/28/1998              |             | 1       |               |               |       |       |        |       |          |       |       |          |                   |          |         |             | ļ    |                | <u> </u>         |
|       | 2/2/1998               |             |         |               |               |       |       |        |       |          |       |       |          |                   | <u> </u> |         |             |      |                |                  |
|       | 2/5/1998               |             | ļ       |               |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
|       | 2/9/1998<br>2/12/1998  |             |         |               |               |       | ·     |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
|       | 2/12/1998              |             |         |               |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
|       | 2/18/1998              |             |         |               |               |       |       |        |       |          |       |       | 1        |                   |          |         |             |      |                |                  |
|       | 2/19/1998              |             |         |               | -             |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
|       | 4/13/1998              |             | <.05    | <.02          | <.05          | 0.065 | 0.002 | <.04   | 132.9 | <.002    | <.005 | <.005 | 0.029    | <.01              |          | 6       | <.005       |      | 23.6           | 1.14             |
|       | 4/22/1998              |             |         |               |               |       |       |        |       |          |       |       |          |                   |          | · · · · |             |      | 40.0           | 1.19             |
|       | 4/24/1998 4/26/1998    |             |         |               |               |       |       | ļ      |       |          |       |       |          |                   |          |         |             |      |                |                  |
|       | 4/26/1998              |             |         |               |               |       |       | P      |       | <u> </u> |       |       |          |                   | ļ        |         |             |      |                |                  |
|       | 5/1/1998               |             |         |               |               |       |       |        |       |          |       |       | <u> </u> |                   |          |         |             |      | L              |                  |
|       | 5/4/1998               |             |         |               |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
|       | 5/9/1998               |             |         |               |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
|       | 5/14/1998              |             |         |               |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
|       | 5/18/1998<br>5/18/1998 |             | 0.06    | <.02          | 0.13          | 0.021 | 0.021 | . <.04 | 117.2 | <.002    | <.005 | <.005 | 0.019    | <.01              |          | 7       | <.005       |      | 19.8           | 0.82             |
|       | 5/23/1998              |             |         |               |               |       |       |        |       |          |       |       |          |                   | -        |         |             |      |                |                  |
|       | 5/27/1998              |             |         |               |               |       |       |        |       |          |       |       |          |                   |          |         |             | -    |                |                  |
|       | 6/2/1998               |             |         | <.02          |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
|       | 6/5/1998               |             |         |               |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
|       | 6/8/1998               |             |         |               |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
|       | 6/10/1998<br>6/15/1998 |             |         |               |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
|       | 6/19/1998              |             |         |               |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
|       | 6/20/1998              |             |         |               |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
|       | 6/21/1998              |             |         |               |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
|       | 6/25/1998              |             |         |               |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
|       | 6/26/1998              |             |         |               |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
| ····· | 6/30/1998<br>7/7/1998  | ~           |         |               |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
|       | 7/9/1998               |             |         |               |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
|       | 7/14/1998              |             |         |               |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
|       | 7/16/1998              |             |         |               |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
| ├     | 7/21/1998              |             |         |               |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
| }     | 7/23/1998              |             |         |               |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
|       | 8/1/1998               |             |         |               |               |       |       |        |       |          |       |       |          |                   |          | [       |             |      |                |                  |
|       | 8/5/1998               |             |         |               |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
|       | 8/10/1998              |             |         |               |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
|       | 8/14/1998              |             |         |               |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
|       | 8/17/1998 8/21/1998    |             |         |               |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
|       | 8/24/1998              |             |         |               |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
|       | 8/28/1998              |             |         |               |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
|       | 8/31/1998              |             |         |               |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                | ··{              |
|       | 9/4/1998               |             |         |               |               |       |       |        |       |          |       |       |          |                   |          |         | · i         |      |                |                  |
|       | 9/7/1998               |             | I       |               |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
|       | 9/16/1998              |             |         | F             |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
|       | 9/21/1998              |             |         |               |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
|       | 10/2/1998              |             | ·       |               |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
|       | 10/11/1998             |             |         |               |               |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |
|       | 10/14/1998             |             |         |               | 1             |       |       |        |       |          |       |       |          |                   |          |         |             |      |                |                  |

| Station D        | ate                    | λg−D          | AL-D          | AS-D   | 8-D   | BA-D  | BE-D           | BI-D     | CA-D           | CD-D            | ⊂co-⊅           | CR-D            | CU-D            | FE-D  | KG-D               | K-D           | LA-D   |      |              |       |
|------------------|------------------------|---------------|---------------|--------|-------|-------|----------------|----------|----------------|-----------------|-----------------|-----------------|-----------------|-------|--------------------|---------------|--------|------|--------------|-------|
| 1.53.55          |                        |               | ASTO GONZON   |        |       |       |                |          |                | <i>HERRER</i>   | - THE MERICA    |                 |                 |       | BG-D               |               |        | LI-D | MG-D         | MN-D  |
| 1997,220,220, 40 |                        | ng/L          | mg/L          | mg/L   | mg/1. | mg/L  | mg/L           | mg/L     | ∭ mg/L         | mg/L            | mg/L            | mg/L            | mg/L            | mg/L  | mg/L               | mg/L          | mg/L   | mg/L | ոգ/ն         | mg/L  |
|                  | 0/19/1998              |               | <.05          | <.02   | <.05  | 0.022 | 0.001          | <.04     | 179.5          | <.002           | 0.006           | <.005           | 0.018           | 0.11  |                    | 8             | <.005  |      | 37.8         | 4.5   |
|                  | 0/20/1998              |               |               |        |       |       |                | <u> </u> |                |                 |                 |                 |                 |       |                    |               |        |      |              |       |
|                  | 1/18/1998              |               | <.05          | <.005  |       |       |                |          |                |                 |                 | ļ               |                 |       |                    |               |        |      |              |       |
|                  | 2/21/1999              |               | 0.14          | <.005  | 0.05  | 0.017 | 0.001          | <.04     | 184.9          | <.001           | <.005           | 0.165           | 0.021           | 0.12  |                    | 7             | <.005  |      | 38.3         | 4.91  |
|                  | 3/21/1999              |               | 0.12          | <.005  | <.05  | 0.023 | <.001<br><.001 | <.04     | 211.9          | <.001           | <.005           | 0.062           | 0.019           | 0.09  |                    | 8             | <.005  |      | 42.6         | 5.21  |
|                  | 4/20/1999              |               | 0.12          | <.005  | 0.06  | 0.011 | 0.002          | <.04     | 178.1          | 0.002           | <.005<br>0.009  | <.005           | 0.02            | <.01  |                    | 6             | <.005  |      | . 34         | 5.87  |
|                  | 5/6/1999               |               | <.05          | <.005  | <.05  | <.002 | 0.001          | <.04     | 125.2          | 0.001           | 0.009           | <.005           | 0.018           | 0.19  |                    | 6             | 0.041  |      | 31.2         | 3.3   |
|                  | 5/17/1999              | <.003         | <.05          | <.005  | <.05  | 0.007 | <.001          | <.04     | 56.2           | <.001           | <.005           | 0.061           | 0.008           | 0.01  |                    | <u>6</u><br>3 | <.005  |      | 20           | 0.78  |
|                  | 5/27/1999              | <.003         | <.05          | <.005  | <.05  | 0.008 | <.001          | <.04     | 80.7           | <.001           | <.005           | <.005           | 0.008           | 0.02  |                    | 4             | <.005  |      | 10.2         | 0.34  |
|                  | 7/3/1999               |               | 0.12          | <.005  | 0.19  | 0.032 | <.001          | <.04     | 131.6          | <.001           | <.005           | <.005           | 0.014           | 0.19  | i                  | 5             | <.005  |      | 13.5<br>23.7 | 0.63  |
|                  | 7/27/1999              |               | 0.17          | <.005  | <.05  | 0.013 | <.001          | <.04     | 138.6          | <.001           | <.005           | <.005           | 0.011           | 0.06  |                    | 6             | <.005  |      | 29.7         | 2.29  |
|                  | 7/29/1999              | <.0003        | 0.05          | <.002  | 0.02  | 0.031 | <.001          | < 004    | 155.8          | <.0002          | <.001           | <.001           | 0.015           | 0.03  |                    | 7.9           | <.001  |      | 30           | 2.44  |
|                  | 8/12/1999              | <.003         | <.05          | <.005  | <.05  | 0.087 | <.001          | <.04     | 159.9          | <.001           | 0.019           | <.005           | 0.01            | <.01  | 1                  | 10            | <.005  |      | 30.1         | 1.88  |
|                  | 9/10/1999              |               | 0.1           | <.005  | <.05  | 0.025 | <.001          | <.04     | 163.9          | <.001           | <.005           | <.005           | 0.018           | 0.03  |                    | 7             | 0.006  |      | 33.8         | 3.02  |
|                  | 0/29/1999              | <.003         | <.05          | <.005  | <.05  | 0.084 | <.001          | <.04     | 194.2          | <.001           | <.005           | <.005           | 0.003           | 0.04  |                    | 4             | <.005  |      | 38.6         | 7.92  |
|                  | 3/25/2000              | <.003         | 0.41          | <.005  |       | 0.000 |                |          |                |                 |                 |                 |                 |       |                    |               |        |      |              |       |
|                  | 4/27/2000              |               | 0.41          | <.005  | <.05  | 0.089 | <.001          | <.05     | 196.6          | <.001           | <.005           | <.005           | 0.002           | 0.06  |                    | 12            | 0.005  |      | 40.9         | 5.53  |
|                  | 5/15/2000              |               | <.05          | <.005  | <.05  | 0.058 | 0.001          | <.05     | 148.9<br>47.1  | <.001<br><.001  | <.005           | <.005           | 0.021           | 0.05  | J                  | 4             | <.005  |      | 31.8         | 4.3   |
|                  | 5/22/2000              |               | 1.05          | ~.003  | 1.05  | 0.038 | <u></u>        | \$.05    | 4/.1           | <.001           | <.005           | <.005           | <.002           | 0.03  | <u>├</u> ───       | 1             | 0.033  |      | 7.1          | 0.36  |
|                  | 6/4/2000               |               |               | 1      |       |       |                |          |                |                 |                 |                 |                 |       |                    |               |        |      |              |       |
|                  | 5/4/2000               | <.003         | <.05          | <.005  | <.05  | 0.019 | <.001          | <.05     | 112.1          | 0.005           | <.005           | <.005           | <.002           | 0.01  |                    | 6             | <.005  |      | 21.9         |       |
|                  | 6/26/2000              | <.003         | <.05          | <.005  | <.05  | 0.036 | 0.002          | <.05     | 152.5          | <.001           | <.005           | <.005           | 0.018           | <.01  |                    | 7             | <.005  |      | 21.9         | 0.63  |
|                  | 7/25/2000              | <.003         | <.05          | <.005  | <.05  | 0.051 | 0.002          | <.05     | 157.9          | 0.01            | 0.01            | 0.006           | 0.017           | 0.15  |                    | 8             | 0.059  |      | 31.8         | 2.03  |
|                  | 7/28/2000              |               |               |        |       |       |                |          |                |                 |                 | 1               |                 |       |                    |               | 0.035  |      | 31.0         | 2.03  |
|                  | 8/15/2000              |               |               |        |       |       |                |          |                |                 |                 |                 |                 |       |                    |               |        |      | -            |       |
|                  | 8/29/2000              | <.003         | 0.34          | <.005  | <.05  | 0.031 | <.001          | <.05     | 161.3          | <.001           | <.005           | <.005           | 0.019           | 0.19  |                    | 8             | <.005  |      | 33.3         | 2.27  |
|                  | 8/30/2000              |               |               |        |       |       |                |          |                |                 |                 |                 |                 |       |                    |               |        |      |              |       |
|                  | 9/25/2000              | <0.01         | <0.05<br>0.27 | <0.2   | <0.1  | 0.02  | <0.005         | <0.1     | 188            | <0.001          | <0.01           | <0.01           | <0.01           | 0.06  |                    | 7             |        | 0.03 | 39.8         | 4.36  |
|                  | .0/28/2000             | <u> ~.003</u> | 0.27          | <.uus  | <.05  | 0.048 | 0.002          | <.05     | 182.7          | <.001           | <.005           | <.005           | 0.03            | 0.17  |                    | 8             | <.005  |      | 37.5         | 3.92  |
|                  | 1/13/2000              | <0.003        | <0.05         | <0.005 | <0.05 | 0.047 | <0.001         | <0.05    | 188.5          | <0.001          | 0.01            | <0.005          |                 |       |                    |               |        |      |              |       |
|                  | 1/18/2000              |               | <0.05         | <0.2   | <0.1  | 0.047 | <0.001         | <0.1     | 220            | <0.001          | <0.01           | <0.005          | <0.002<br><0.01 | 0.03  |                    | 9             | 0.012  |      | 44.8         | 3.56  |
|                  | 1/28/2000              |               |               |        |       | 0.01  | 40.005         |          | 440            | C0.001          | ~0.UI           | <u> </u>        | <u> </u>        | <0.01 |                    | 7             |        | 0.02 | 39.1         | 5.18  |
| 1                | 2/14/2000              | <0.01         | <0.05         | <0.2   | <0.1  | 0.03  | <0.005         | <0.1     | 223            | <0.001          | <0.01           | <0.01           | <0.01           | <0.01 |                    | 8             |        | 0.03 | 46.1         | 5.52  |
|                  | 1/13/2001              | <.003         | 0.12          | <.005  | <.05  | 0.029 | 0.002          | <.05     | 159.1          | <.001           | 0.011           | <.005           | 0.024           | 0.15  | ·                  | 6             | <.005  | 0.03 | 31.8         | 3.24  |
|                  | 2/10/2001              | <.003         | 0.14          | <.005  | <.05  | 0.032 | 0.002          | <.05     | 170.3          | <.001           | <.005           | <.005           | 0.017           | 0.01  |                    | 9             | <.005  |      | 34.9         | 3.42  |
|                  | 3/10/2001              | <.003         | 0.64          | <.005  | <.05  | 0.09  | <.001          | <.05     | 197            | <.001           | <.005           | <.005           | 0.009           | <.01  |                    | 3             | <.005  |      | 40.98        | 5.19  |
|                  | 4/16/2001              | <.003         | 0.1           | <.005  | <.05  | 0.04  | <.001          | <.05     | 180.3          | <.001           | <.005           | <.005           | 0.006           | 0.02  |                    | 2             | <.005  |      | 38.3         | 4.42  |
|                  | 5/14/2001              | <.003         | 0.39          | <.005  | <.05  | 0.074 | <.001          | <.05     | 189.9          | <.001           | <.005           | <.005           | 0.002           | <.01  |                    | 4             | <.005  |      | 36.9         | 3.17  |
|                  | 6/17/2001<br>6/25/2001 | <.003         | <.05          | <.005  | 0.12  | 0.069 | <.001          | <.05     | 176.5          | <.001           | <.005           | <.005           | <.002           | <.01  |                    | 6             | 0.02   |      | 35           | 1.42  |
|                  | 7/14/2001              | <.003         | <.05          | <.005  | 0.77  | 0.027 | <.001          |          | 100 0          |                 |                 |                 |                 |       | $ \longrightarrow$ |               |        |      |              |       |
|                  | 8/14/2001              | <0.003        | <0.05         | <0.005 | <0.05 | 0.027 | <0.001         | <.05     | 186.5<br>198.9 | <.001<br><0.001 | <.005<br><0.005 | <.005<br><0.005 | <.002           | <.01  |                    | 6             | 0.009  |      | 39.2         | 1.99  |
|                  | 8/21/2001              |               | -9.93         |        | .0.03 | 0.030 | ~0.001         | ~~.~>    | 72012          | <0.001          | <0.005          | <0.005          | <0.002          | <0.01 | ├───-              | 7             | 0.008  |      | 45.5         | 1.28  |
|                  | 9/17/2001              | <0.003        | <0.05         | <0.005 | <0.05 | 0.045 | <0.001         | <0.05    | 177.6          | <0.001          | <0.005          | <0.005          | <0.002          | <0.01 |                    | 8             | 0.023  |      | 43.9         | 1.57  |
|                  | 0/15/2001              | <0.003        | <0.05         | <0.005 | 0.05  | 0.029 | <0.001         | <0.05    | 182            | <0.001          | 0.005           | <0.005          | <0.002          | <0.01 |                    | 9             | 0.023  |      | 43.9         | 2.8   |
|                  | 1/13/2001              | <0.003        | <0.05         | <0.005 | <0.05 | 0.047 | <0.001         | <0.05    | 188.5          | <0.001          | 0.01            | <0.005          | <0.002          | 0.03  |                    | 9             | 0.012  |      | 40.4         | 3.56  |
|                  | 2/14/2001              |               |               |        |       |       |                |          |                |                 |                 |                 |                 |       |                    |               |        |      |              |       |
|                  | 2/15/2001              |               | <0.05         | <0.005 | <0.05 | 0.027 | 0.001          | <0.05    | 197.1          | <0.001          | 0.011           | 0.006           | <0.002          | <0.01 |                    | 7             | 0.02   |      | 45.9         | 3.1   |
|                  | 1/15/2002              | <0.001        | <0.05         | <0.005 | 0.05  | 0.087 | <0.001         | <0.05    | 193.4          | <0.001          | 0.007           | <0.005          | <0.002          | <0.01 |                    | 10            | 0.02   |      | 47           | 4.14  |
|                  | 2/12/2002              | <0.001        | <0.05         | 0.008  | <0.05 | 0.025 | <0.001         | <0.05    | 185.1          | <0.001          | 0.006           | <0.005          | <0.002          | <0.01 |                    | 8             | 0.013  |      | 39.8         | 4.77  |
|                  | 3/12/2002              | <0.001        | <0.05         | <0.005 | 0.06  | 0.1   | <0.001         | <0.05    | 203.8          | <0.001          | 0.006           | <0.005          | 0.018           | <0.01 |                    | 10            | <0.005 |      | 44.2         | 4.66  |
|                  | 4/15/2002              | 0.001         | <0.05         | <0.005 | <0.05 | 0.052 | <0.001         | <0.05    | 195.1          | <0.001          | 0.006           | <0.005          | 0.003           | <0.01 |                    | 10            | 0.012  |      | 47.3         | 3.72  |
|                  | 6/16/2002              | <0.001        | <0.05         | <0.005 | <0.05 | 0.081 | <0.001         | <0.05    | 40.1           | 0.002           | <0.005          | <0.005          | 0.013           | <0.01 |                    | 1             | <0.005 |      | 3.8          | 0.42  |
|                  | 6/16/2002              | <0.2          | 0.037         | <0.003 | <0.05 | 0.042 | 0.4            | <0.01    | 179.7          | <0.2            | 0.002           | 0.010           |                 |       |                    |               |        |      |              |       |
|                  | 7/16/2002              |               | 0.057         | -0.003 | ~0.03 | 0.044 | 0.4            | <0.01    | T13'1          | <0.2            | 0.003           | 0.012           | 0.015           | 0.053 |                    | 8.7           | 0.005  |      | 40.2         | 1.763 |
|                  | 7/16/2002              | 0.7           | 0.051         | 0.012  | <0.05 | 0.031 | 0.5            | <0.01    | 183.7          | 0.5             | 0.008           | 0.007           | 0.016           | 0.014 |                    |               |        |      |              |       |
|                  | 8/12/2002              |               |               |        |       | ~~~~~ |                | ~0.01    | 103.7          | <u>v.</u> 5     | 0.008           | 0.007           | 0.010           | 0.014 |                    | 9.5           | <0.001 |      | 46           | 1.385 |
|                  | 8/12/2002              | <0.2          | 0.063         | 0.018  | 0.1   | 0.017 | 0.3            | <0.01    | 188.1          | <0.2            | 0.009           | <0.001          | 0.014           | 0.049 |                    | 9.5           | <0.001 |      | 46.6         |       |
|                  | 9/16/2002              | . 1           |               |        |       |       |                |          |                |                 |                 |                 |                 |       |                    | <u> </u>      |        |      | 40.0         | 2.6   |
|                  |                        |               |               |        |       |       |                |          |                | ·····           | A               |                 |                 | t     | I                  |               |        |      | 1            |       |

| active at 200 stol                      |                          |         |          | and a second    | 2010-11-01-00-00-00-00-00-00-00-00-00-00- | AUG         |         |           | CA-D        | CD-D     | со-р     | CR-D       | CU-D                                  | State of the second | HG-D                                          | K-D             | LA-D          | LI-D      | MG-D     | MN-D       |
|-----------------------------------------|--------------------------|---------|----------|-----------------|-------------------------------------------|-------------|---------|-----------|-------------|----------|----------|------------|---------------------------------------|---------------------|-----------------------------------------------|-----------------|---------------|-----------|----------|------------|
| Station                                 | Date                     | AG-D    | AL-D     | AS-D            | B-D                                       | <u>BA-D</u> | BE-D    | BI-D      | servite and |          |          | State CK-D |                                       | FB-D                | RG-D                                          | K-D<br>Borrande | Sector Line D | D OB DOOR | 10-U     | PLY-U      |
| <11.00000000000000000000000000000000000 |                          | The The | mg/L     | mg/L            | ng/L                                      | mg/L        | mg/L    | Samg/LS   | ng/L®       | mg/L     | mg/L     | mg/L       | mg/L                                  | Sang/L              | mg/L                                          | mg/L            | mg/L          | mg/L      | ng/L     | mg/L       |
|                                         | 9/16/2002                | <0.2    | 0.083    | <0.003          | 0.1                                       | 0.087       | 0.3     | <0.01     | 192.9       | 0.6      | 0.005    | <0.001     | 0.019                                 | 0.036               |                                               | 11              | <0.001        |           | 48.4     | 2.282      |
|                                         | 9/29/2002                |         |          |                 |                                           |             |         |           |             |          |          |            |                                       |                     |                                               |                 |               |           |          |            |
|                                         | 10/15/2002               |         |          |                 |                                           |             |         |           | 0.0.2       |          | 0.000    | 0.00       |                                       |                     |                                               | 10.0            |               |           |          |            |
|                                         | 10/15/2002<br>11/12/2002 | 0.3     | 0.038    | 0,006           | 0.09                                      | 0.06        | 0.2     | <0.01     | 201.8       | 0.9      | 0.007    | 0.001      | 0.037                                 | 0.042               |                                               | 10.9            | 0.002         |           | 50.4     | 3.831      |
|                                         | 11/12/2002               | <0.2    | 0.029    | <0.003          | 0.09                                      | 0.044       | 0.3     | 0.01      | 205.2       | <0.2     | 0.008    | <0.001     | 0.02                                  | 0.067               |                                               | 10.3            | <0.001        |           | 47       | 4.298      |
|                                         | 12/10/2002               |         | 0.025    |                 |                                           | 0.04        | <u></u> | 0.01      |             |          | 0.000    | 10.001     | 0.02                                  | 0.001               |                                               | 10.5            | 40.001        |           |          |            |
|                                         | 12/10/2002               | 0.7     | 0.022    | 0.036           | 0.1                                       | 0.04        | 0.4     | <0.01     | 178.6       | 0.6      | 0.008    | <0.001     | 0.023                                 | 0.088               |                                               | 9.5             | 0.003         |           | 48.4     | 4.272      |
|                                         | 12/15/2002               |         |          |                 |                                           |             |         |           |             |          |          |            |                                       |                     |                                               |                 |               |           |          |            |
| X13                                     |                          |         |          |                 |                                           |             |         |           |             |          |          |            |                                       |                     |                                               |                 |               |           |          |            |
| J                                       | 1/5/1998                 | <.003   | <.05     | <.02            | 0.05                                      | 0.109       | 0.003   | <.04      | 200         | <.002    | <.005    | <.005      | 0.009                                 | 0.03                | ļ                                             | 9               | <.005         |           | 39.2     | 7.17       |
| ļ                                       | 1/12/1998                |         |          | 0.03            |                                           |             |         |           |             |          |          |            |                                       |                     |                                               |                 |               |           |          |            |
| <b>├</b> ────                           | 1/23/1998 2/24/1998      | _       | [        | <.02            |                                           |             |         |           |             |          |          |            | <b></b>                               |                     |                                               |                 |               |           |          | i          |
|                                         | 3/13/1998                |         |          | <u> &lt;.02</u> |                                           |             |         |           |             |          |          |            | ļ                                     |                     |                                               |                 |               |           |          |            |
|                                         | 3/17/1998                |         | <u>├</u> |                 |                                           |             |         | · · · · · |             |          |          |            |                                       |                     |                                               |                 |               |           |          |            |
|                                         | 3/17/1998                |         |          | <.02            |                                           |             |         |           |             |          |          |            |                                       |                     |                                               |                 |               |           |          |            |
|                                         | 4/3/1998                 |         |          |                 |                                           |             |         |           |             |          |          |            |                                       |                     |                                               |                 |               |           |          |            |
|                                         | 4/13/1998                |         |          | <.02            |                                           |             |         |           |             | L        |          |            |                                       |                     |                                               |                 |               |           |          |            |
|                                         | 4/30/1998                |         | <u> </u> |                 |                                           |             |         | · · · ·   |             | L        |          |            | <b> </b>                              |                     |                                               |                 |               |           |          |            |
|                                         | 5/7/1998                 |         |          |                 |                                           | 0.014       | 0.002   | - 01      |             | < 000    | 0.000    | 1 000      | 0.025                                 |                     |                                               |                 | 1 000         |           |          |            |
| J                                       | 5/18/1998<br>5/18/1998   | <.003   | 0.08     | 0.04            | 0.3                                       | 0.044       | 0.021   | <.04      | 203.9       | <.002    | 0.006    | <.005      | 0.025                                 | <.01                |                                               | 5               | <.005         |           | 41.7     | 4.76       |
|                                         | 6/15/1998                |         |          |                 |                                           |             |         |           | ······      |          |          |            |                                       | ·                   |                                               |                 |               |           |          |            |
|                                         | 6/15/1998                | ~       | <u>}</u> |                 |                                           |             |         |           |             |          |          |            |                                       |                     |                                               |                 |               |           |          | ·····      |
|                                         | 6/30/1998                |         | 1        |                 |                                           |             |         |           |             |          |          | <u> </u>   | [                                     |                     |                                               |                 |               |           |          |            |
|                                         | 7/21/1998                |         | <u> </u> |                 |                                           |             |         |           |             |          | [        |            |                                       |                     |                                               |                 |               |           |          |            |
|                                         | 8/10/1998                |         |          |                 |                                           |             |         |           |             |          |          |            |                                       |                     |                                               |                 |               |           |          |            |
|                                         | 9/7/1998                 | _       | ļ        |                 | <u> </u>                                  |             |         | <u> </u>  |             |          |          |            |                                       |                     |                                               |                 | L             |           |          | <u> </u>   |
|                                         | 9/25/1998                |         |          |                 | <u> </u>                                  |             | ļ       |           |             |          |          | <u> </u>   |                                       |                     |                                               |                 |               |           |          |            |
|                                         | 10/19/1998               |         |          |                 | <u> </u>                                  | <u>}</u>    |         |           | <u> </u>    | <u> </u> |          | <u> </u>   |                                       |                     |                                               |                 | <u> </u>      | <u> </u>  | <u> </u> | <u> </u> ] |
|                                         | 11/17/1998               |         | 1        |                 |                                           |             |         |           |             |          |          |            |                                       |                     |                                               |                 |               |           |          |            |
| ·                                       | 12/15/1998               |         |          |                 |                                           |             |         |           |             |          |          |            | · · · · · · · · · · · · · · · · · · · |                     |                                               |                 |               |           |          |            |
|                                         | 12/21/1998               |         | 1        |                 |                                           |             |         | 1         |             |          |          |            |                                       |                     |                                               |                 |               |           |          |            |
|                                         | 1/18/1999                | <.003   | <.05     | <.005           | 0.09                                      | 0.032       | 0.001   | <.04      | 238.7       | <.001    | <.005    | 0.124      | 0.022                                 | <.01                |                                               | 5               | <.005         |           | 45.6     | 8.68       |
|                                         | 1/27/1999                |         |          |                 |                                           |             |         |           |             |          |          |            |                                       |                     |                                               |                 |               |           |          |            |
|                                         | 2/22/1999                |         | 0.14     | <.005           | 0.21                                      | 0.037       | <.001   | <.04      | 225.8       | <.001    | 0.008    | 0.244      | 0.019                                 | 0.06                |                                               | 5               | <.005         |           | 42.6     | 7.61       |
|                                         | 3/17/1999                | <.003   | 0.14     | <.005           | 0.07                                      | 0.034       | <.001   | <.04      | 175.6       | <.001    | <.005    | 0.264      | 0.021                                 | <.01                |                                               | 4               | <.005         |           | 32.4     | 4.53       |
|                                         | 3/24/1999                |         |          | <u> </u>        |                                           | <u> </u>    |         |           |             |          | <u> </u> |            |                                       |                     |                                               |                 |               |           |          |            |
| }                                       | 4/20/1999                | <-003   | <.05     | <,005           | <.05                                      | 0.04        | 0.002   | <.04      | 219.8       | <.001    | <.005    | <.005      | 0.023                                 | 0.08                | 1                                             | 6               | <.005         | <u> </u>  | 44.5     | 8.98       |
| <u> </u>                                | 5/17/1999                |         | <.05     | <.005           | <.05                                      | 0.064       | 0.003   | <.04      | 202.3       | <.001    | <.005    | <.005      | 0.01                                  | <.01                |                                               | 5               | <.005         | l         | 41.2     | 5.29       |
|                                         | 6/4/1999                 |         |          |                 | 1                                         |             |         |           |             |          |          |            |                                       |                     |                                               |                 |               |           |          |            |
|                                         | 6/8/1999                 |         |          |                 |                                           |             |         |           |             |          |          |            |                                       |                     |                                               |                 |               |           |          |            |
| [                                       | 7/3/1999                 |         | 0.14     | <.005           | 0.25                                      | 0.045       | <.001   | <.04      | 173.7       | <.001    | <.005    | <.005      | 0.017                                 | 0.21                | <u> </u>                                      | 5               | <.005         | └───      | 37.5     | 3.47       |
|                                         | 7/27/1999                |         | <.05     | <.005           | <.05                                      | 0.132       | 0.002   | <.04      | 194.2       | 0.002    | 0.081    | <.005      | 0.012                                 | 0.68                |                                               | 6               | 0.014         | <u> </u>  | 41.5     | 8.79       |
|                                         | 8/12/1999                |         | <.05     | <.005           | <.05                                      | 0.104       | <.001   | <.04      | 214.6       | <.001    | <.005    | <.005      | 0.005                                 | 0.02                |                                               | 6               | <.005         |           | 41.1     | 5.74       |
|                                         | 9/10/1999                |         | <u> </u> | ·[              |                                           |             |         |           |             |          |          | <u> </u>   | <u> </u>                              |                     |                                               |                 |               |           |          |            |
|                                         | 9/28/1999                | <.003   | <.05     | <.005           | <.05                                      | 0.117       | <.001   | <.04      | 197.4       | <.001    | <.005    | <.005      | <.002                                 | <.01                | <u>                                      </u> | <1              | <.005         | ├───      | 38.7     | 7.49       |
| }                                       | 11/22/1999               |         | 0.09     | <.005           | <.05                                      | 0.05        | <.001   | <.04      | 191.3       | <.001    | <.005    | <.005      | 0.027                                 | 0.02                | 1                                             | 6               | <.005         |           | 43.8     | 6.44       |
|                                         | 12/14/1999               |         | 0.52     | <.005           | <.05                                      | 0.112       | <.001   | <.04      | 220.8       | <.001    | <.005    | <.005      | 0.014                                 | 0.11                |                                               | 4               | <.005         |           | 37.7     | 8.87       |
|                                         | 1/27/2000                |         | 0.18     | <.005           | <.05                                      | 0.078       | 0.002   | <.05      | 218.1       | <.001    | <.005    | <.005      | 0.025                                 | <.01                |                                               | 6               | 0.017         |           | 41.1     | 6.95       |
|                                         | 2/28/2000                | <.003   | 0.24     | <.005           | <.05                                      | 0.056       | <.001   | <.05      | 214.7       | <.001    | <.005    | <.005      | 0.029                                 | 0.08                | L                                             | 7               | 0.013         |           | 42.8     | 6.12       |
| <u> </u>                                | 3/23/2000                | <.003   | 0.43     | <.005           | 0.06                                      | 0.125       | <.001   | <.05      | 216         | <.001    | 0.023    | <.005      | <.002                                 | 0.01                | <u> </u>                                      | 7               | <.005         |           | 43.4     | 8.7        |
| ļ                                       | 4/27/2000                |         | 0.26     | <.005           | <.05                                      | 0.067       | 0.001   | <.05      | 206.4       | <.001    | <.005    | <.005      | 0.027                                 | 0.6                 | ·                                             | 5               | <.005         |           | 41.5     | 8.92       |
| <u> </u>                                | 5/15/2000                | <.003   | 0.28     | <.005           | <.05                                      | 0.027       | <.001   | <.05      | 232.7       | <.001    | 0.007    | <.005      | 0.018                                 | 0.28                |                                               | 6               | 0.07          |           | 46       | 9.8        |
| L                                       | 6/20/2000                | <.003   | 0.24     | <,005           | <.05                                      | 0.13        | 0.002   | <.05      | 192         | 0.002    | <.005    | <.005      | 0.02                                  | 0.26                |                                               | 7               | <.005         |           | 43       | 4.54       |
|                                         | 6/20/2000                |         | 0.24     | <.005           | <.05                                      | 0.038       | 0.002   | <.05      | 213.2       | <.001    | <.005    | <.005      | 0.02                                  | 0.26                |                                               | 7               | <.005         | <u> </u>  | 40.7     | 7.02       |
|                                         | 7/19/2000                |         | 1        | 1               | 1                                         | 0.000       | 1 0.002 |           | 1           |          |          | <u> </u>   |                                       | <u> </u>            |                                               | ·               |               | <u> </u>  | <u>-</u> |            |
| <u> </u>                                | 7/25/2000                |         | <.05     | <.005           | <.05                                      | 0.052       | 0.002   | <.05      | 207.8       | <.001    | 0.03     | <.005      | 0.021                                 | 0.21                |                                               | 7               | 0.06          |           | 44.8     | 5.84       |
| <b>_</b>                                | ·····                    | ·····   |          |                 |                                           |             |         |           |             |          |          |            |                                       |                     |                                               |                 | P. 11.        |           |          |            |

| Station Date       | 6) ( <i>12)</i> (34) | AG-D                                                                                                                                                                                                                                                                    | AL-D  | AS-D   | B-D                                      | BA-D    | BE-D             | BI-D  | CA-D    | CD-D           | со- <u>р</u>   | CR-D                  | CU-D           | FE-D        | HG-D   | K-D       | LA-D        | LI-D      | MG-D  | MN-D         |
|--------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|------------------------------------------|---------|------------------|-------|---------|----------------|----------------|-----------------------|----------------|-------------|--------|-----------|-------------|-----------|-------|--------------|
| ARCHINES TRANSPORT | STIFFICA             |                                                                                                                                                                                                                                                                         |       | 和新闻的资料 | Shennary.                                |         | 影响影响影响           |       |         | 02501526203(5) | 1930/2008/2007 | 117030/2009/04/90/201 | 2010202020000  | 680 70 90 V | 的目的影响的 |           | STREEMEN BY |           | DIG-D | <b>U</b> -10 |
|                    | 的感激的                 | ng/L                                                                                                                                                                                                                                                                    | ng/L  | ng/L   | mg/L                                     | <b></b> | mg/L             | mg/L  | mg/L    | mg/L           | 00 mg/L        | mg/L                  | mg/L           | mg/L        | mg/L∂  | ng/L      | mg/L        | S mg/L    | mg/L  | mg/L         |
|                    | 1/2000               |                                                                                                                                                                                                                                                                         |       |        |                                          |         |                  |       |         |                |                |                       |                |             |        |           |             |           |       |              |
|                    | /2000                |                                                                                                                                                                                                                                                                         |       |        |                                          |         |                  |       |         |                |                |                       |                |             |        | Į         | ļ           |           |       |              |
|                    | 1/2000               |                                                                                                                                                                                                                                                                         |       |        |                                          |         |                  |       |         |                |                |                       |                |             |        |           | <u> </u>    |           |       |              |
|                    | 1/2000               |                                                                                                                                                                                                                                                                         |       |        |                                          |         |                  |       |         | -              |                |                       |                |             |        |           | <u> </u>    |           |       |              |
| 8/29               | /2000                | <.003                                                                                                                                                                                                                                                                   | 0.23  | <.005  | <.05                                     | 0.037   | <.001            | <.05  | 213.1   | <.001          | <.005          | <.005                 | 0.018          | <.01        |        | 7         | <.005       |           | 45.1  | 3.58         |
|                    | 3/2000               |                                                                                                                                                                                                                                                                         |       |        |                                          |         |                  |       |         |                |                | 1                     |                |             |        | · · · · · |             |           | 40.1  | 3.58         |
|                    | /2000                |                                                                                                                                                                                                                                                                         |       |        |                                          |         |                  |       |         |                |                | [                     |                |             |        |           |             |           |       |              |
|                    | 5/2000               |                                                                                                                                                                                                                                                                         | 0.06  | <0.2   | <0.1                                     | 0.08    | <0.005           | <0.1  | 176     | <0.001         | <0.01          | <0.01                 | <0.01          | 0.93        |        | 4         |             | <0.01     | 33.7  | 6.22         |
|                    | 2000                 | <.003                                                                                                                                                                                                                                                                   | 0.25  | <.005  | <.05                                     | 0.06    | 0.002            | <.05  | 190.4   | 0.003          | <.005          | 0.018                 | 0.03           | 0.18        |        | 7         | <.005       |           | 39.3  | 5.17         |
|                    | 3/2000<br>3/2000     | <0.003                                                                                                                                                                                                                                                                  | <0.05 | 0.021  | 10.05                                    | 0.007   |                  | 10.05 |         | -              |                |                       |                |             | ļ      |           | 1           |           |       |              |
|                    | 3/2000               |                                                                                                                                                                                                                                                                         | <0.05 | <0.2   | <0.05                                    | 0.067   | <0.001<br><0.005 | <0.05 | 231.3   | <0.001         | 0.011          | 0.007                 | <0.002         | 0.04        | ļ      | 7         | 0.022       |           | 45.9  | 13.55        |
|                    | /2000                |                                                                                                                                                                                                                                                                         | <0.05 | <0.2   | <0.1                                     | 0.08    | <0.005           | <0.1  | 258     | <0.001         | 0.01           | <0.01                 | <0.01<br><0.01 | <0.01       |        | 6         |             | 0.01      | 43.9  | 11           |
|                    | /2001                |                                                                                                                                                                                                                                                                         | 0.23  | <.005  | 0.06                                     | 0.13    | 0.002            | <.05  | 216.9   | <.001          | <.005          | 0.037                 | 0.062          | 0.02        |        | 6         | 0.011       | 0.02      | 45.8  | 10.1         |
| 2/10               | /2001                | <.003                                                                                                                                                                                                                                                                   | 0.22  | <.005  | <.05                                     | 0.137   | 0.003            | 0.09  | 220.9   | <.001          | <.005          | <.005                 | 0.046          | 0.32        |        | 8         | <.005       |           | 40.9  | 9.86         |
| 3/1                | /2001                |                                                                                                                                                                                                                                                                         | L     |        |                                          |         |                  |       |         |                |                |                       |                | 0.00        |        |           | 1.003       | · · · · · | 41.1  | 3.5          |
|                    | /2001                | <.003                                                                                                                                                                                                                                                                   | 0.8   | <.005  | 0.05                                     | 0.13    | <.001            | <.05  | 236     | <.001          | <.005          | <.005                 | 0.005          | <.01        |        | 2         | <.005       |           | 45.18 | 12.68        |
|                    | /2001                |                                                                                                                                                                                                                                                                         | [     |        |                                          |         |                  |       |         |                |                |                       |                |             |        |           |             |           |       |              |
|                    | /2001                |                                                                                                                                                                                                                                                                         |       |        |                                          |         |                  |       |         |                |                |                       |                |             |        |           |             |           |       |              |
|                    | /2001                |                                                                                                                                                                                                                                                                         |       |        |                                          |         |                  |       |         |                |                | ļ                     |                |             |        |           |             |           |       |              |
|                    | 5/2001               | <.003                                                                                                                                                                                                                                                                   | 0.33  | <.005  | 0.07                                     | 0.06    | 1 0.01           |       | 0.3.0   |                |                |                       |                |             |        |           |             |           |       |              |
|                    | /2001                | <b>C.003</b>                                                                                                                                                                                                                                                            | 0.33  | <.005  | 0.07                                     | 0.06    | <.001            | <.05  | 233     | <.001          | <.005          | <.005                 | 0.025          | 0.09        |        | 2         | <.005       |           | 44.8  | 12.96        |
|                    | /2001                |                                                                                                                                                                                                                                                                         |       |        |                                          |         |                  |       |         |                |                |                       |                |             |        |           |             |           |       |              |
|                    | /2001                |                                                                                                                                                                                                                                                                         |       |        | (- · · · · · · · · · · · · · · · · · · · |         |                  |       |         |                |                |                       |                |             |        |           |             |           |       |              |
| 5/14               | /2001                | <.003                                                                                                                                                                                                                                                                   | 0.52  | <.005  | <.05                                     | 0.163   | <.001            | <.05  | 232.4   | <.001          | <.005          | <.005                 | 0.008          | 0.17        |        | 9         | <.005       |           | 44    | 10.61        |
|                    | /2001                |                                                                                                                                                                                                                                                                         |       |        |                                          |         |                  |       |         |                |                |                       | 0.000          |             |        | 2         | <u> </u>    |           | 44    | 10.61        |
|                    | /2001                |                                                                                                                                                                                                                                                                         |       |        | ŀ                                        |         |                  |       |         |                |                |                       |                |             |        |           |             |           |       |              |
|                    | /2001                |                                                                                                                                                                                                                                                                         |       |        |                                          |         |                  |       |         |                |                |                       |                |             |        |           |             |           |       |              |
|                    | /2001                |                                                                                                                                                                                                                                                                         |       |        |                                          |         |                  |       |         |                |                |                       |                |             |        |           |             |           |       |              |
|                    | /2001                | <.003                                                                                                                                                                                                                                                                   | <.05  | <.005  | 0.12                                     | 0.126   | <.001            | <.05  | 220.5   | <.001          | 0.006          | <.005                 | <.002          | 0.01        |        | б         | 0.025       |           | 43.7  | 5.14         |
|                    | /2001                |                                                                                                                                                                                                                                                                         |       |        |                                          |         |                  |       |         | 1              |                | · · ·                 |                |             |        |           |             |           |       |              |
|                    | /2001                | <.003                                                                                                                                                                                                                                                                   | <.05  | 0.019  | 0.28                                     | 0.107   | <.001            | <.05  | 200.5   | <.001          | 0.005          | <.005                 | <.002          | <.01        |        |           |             |           |       |              |
|                    |                      | <0.003                                                                                                                                                                                                                                                                  | <0.05 | <0.005 | <0.05                                    | 0.041   | <0.001           | <0.05 | 200.5   | <0.001         | 0.005          | <0.005                | 0.01           | 0.08        |        | 5         | 0.023       |           | 38.8  | 9.3          |
|                    | /2001                |                                                                                                                                                                                                                                                                         |       |        |                                          |         |                  | -0.05 |         |                | 0.000          | <0.005                | 0.01           | 0.00        |        | C .       | 0.012       |           | 44.3  | 10.18        |
| 9/17               | /2001                | <0.003                                                                                                                                                                                                                                                                  | <0.05 | <0.005 | <0.05                                    | 0.076   | <0.001           | <0.05 | 206     | <0.001         | 0.011          | <0.005                | <0.002         | <0.01       |        | 6         | 0.022       |           | 44.7  | 13.14        |
|                    | /2001                |                                                                                                                                                                                                                                                                         |       |        |                                          |         |                  |       |         |                |                | }                     |                |             |        |           |             |           |       |              |
|                    | /2001                | <0.003                                                                                                                                                                                                                                                                  | <0.05 | 0.009  | 0.09                                     | 0.112   | <0.001           | <0.05 | 227.2   | <0.001         | 0.013          | <0.005                | <0.002         | 0.05        |        | 8         | 0.035       |           | 49    | 14.39        |
|                    | /2001                | <0.003                                                                                                                                                                                                                                                                  | <0.05 | 0.021  | <0.05                                    | 0.067   | <0.001           | <0.05 | 231.3   | <0.001         | 0.011          | 0.007                 | <0.002         | 0.04        |        | 7         | 0.022       |           | 45.9  | 13.55        |
|                    | /2001                |                                                                                                                                                                                                                                                                         |       |        |                                          |         | -                |       | · · · · |                |                | []                    |                |             |        |           |             |           |       |              |
|                    |                      | <0.001                                                                                                                                                                                                                                                                  | <0,05 | 0.059  | <0.05                                    | 0.074   | <0.001           | <0.05 | 243.3   | 0.001          | 0.015          | 40.005                |                | ~ -         |        |           |             |           |       |              |
| 12/20              |                      |                                                                                                                                                                                                                                                                         | -0.05 | 0.019  | -0.05                                    | 0.074   | ~0.001           | ~~.03 |         | 0.001          | 0.012          | <0.005                | <0.002         | 0.1         |        | 5         | 0.012       |           | 48.4  | 12           |
|                    | /2001                |                                                                                                                                                                                                                                                                         |       |        |                                          |         |                  |       |         |                |                |                       |                |             |        |           |             |           |       |              |
| 1/15               | /2002                | <0.001                                                                                                                                                                                                                                                                  | <0.05 | <0.005 | <0.05                                    | 0.147   | <0.001           | <0.05 | 207.6   | <0.001         | 0.008          | <0.005                | <0.002         | 0.35        |        | 7         | 0.025       |           | 44.4  | 9.4          |
|                    |                      | <0.001                                                                                                                                                                                                                                                                  | <0.05 | 0.018  | <0.05                                    | 0.034   | <0.001           | <0.05 | 191.5   | <0.001         | <0.005         | <0.005                | 0.003          | 0.07        |        | 6         | 0.013       |           | 37    | 7.29         |
|                    | /2002                | 0.022                                                                                                                                                                                                                                                                   | <0.05 | <0.005 | 0.1                                      | 0.11    | <0.001           | <0.05 | 230     | <0.001         | 0.009          | <0.005                | 0.016          | 0.1         |        | 7         | <0.005      |           | 41.6  | 10.39        |
|                    | /2002                | 0.001                                                                                                                                                                                                                                                                   | <0.05 | <0.005 | <0.05                                    | 0.149   | <0.001           | <0.05 | 223.3   | 0.003          | 0.01           | <0.005                | 0.011          | <0.01       |        | B         | <0.005      |           | 44    | 9.91         |
|                    | /2002                | <0.001                                                                                                                                                                                                                                                                  | <0.05 | <0.005 | 0.05                                     | 0.086   | <0.001           | <0.05 | 267     | <0.001         | 0.011          | 0.011                 | 0.009          | <0.01       |        | 7         | <0.005      |           | 47.7  | 11.78        |
|                    | /2002                | 0.3                                                                                                                                                                                                                                                                     | 0.014 | <0.003 | <0.05                                    | 0.04    |                  | -0 01 | 202 5   |                | 0 000          |                       |                |             |        |           |             |           |       |              |
|                    | /2002                | 0.3                                                                                                                                                                                                                                                                     | 0.014 | ~0.003 | ~0.05                                    | 0.04    | 0.5              | <0.01 | 207.5   | <0.2           | 0.006          | 0.008                 | 0.012          | 0.298       |        | 6.4       | 0.005       |           | 40.1  | 8.747        |
|                    | /2002                | 0.9                                                                                                                                                                                                                                                                     | 0.025 | 0.01   | <0.05                                    | 0.04    | 0.6              | <0.01 | 253     | <0.2           | 0.012          | 0.005                 | 0.013          | 0.058       |        |           |             |           |       |              |
|                    | /2002                |                                                                                                                                                                                                                                                                         |       |        |                                          |         | <u> </u>         |       | ~~~     |                | 0.014          | 0.005                 | 0.013          | 0.056       |        | 7.2       | <0.001      | ł         | 46.4  | 10.254       |
|                    | /2002                | <0.2                                                                                                                                                                                                                                                                    | 0.071 | <0.003 | 0.06                                     | 0.054   | <0.2             | <0.01 | 242.8   | <0.2           | 0.012          | <0.001                | 0.015          | 0.043       |        | 7.4       | <0.001      |           | 46.9  | 10.061       |
|                    | /2002                |                                                                                                                                                                                                                                                                         |       |        |                                          |         |                  |       |         |                |                |                       |                |             |        |           |             |           | 40.7  | T0.00T       |
|                    | /2002                |                                                                                                                                                                                                                                                                         |       |        |                                          |         |                  |       |         |                |                |                       | 1              |             |        |           | - I         |           |       |              |
|                    | /2002                |                                                                                                                                                                                                                                                                         |       |        |                                          |         |                  |       |         |                |                |                       |                |             |        |           |             |           |       |              |
|                    | /2002                |                                                                                                                                                                                                                                                                         |       |        |                                          |         |                  |       |         |                |                |                       |                |             |        |           |             |           |       |              |
|                    | /2002                | <0.2                                                                                                                                                                                                                                                                    |       | 0.004  |                                          | 0.000   |                  |       |         |                |                |                       |                |             |        |           |             |           |       |              |
|                    | 12002                | <u.z< td=""><td>0.063</td><td>0.004</td><td>0.1</td><td>0.099</td><td>0.3</td><td>&lt;0.01</td><td>239.9</td><td>0.6</td><td>0.009</td><td>&lt;0.001</td><td>0.022</td><td>0.095</td><td></td><td>8.5</td><td>&lt;0.001</td><td></td><td>47.8</td><td>9.599</td></u.z<> | 0.063 | 0.004  | 0.1                                      | 0.099   | 0.3              | <0.01 | 239.9   | 0.6            | 0.009          | <0.001                | 0.022          | 0.095       |        | 8.5       | <0.001      |           | 47.8  | 9.599        |

| Station         | pate                   | AG-D     | AL-D                                         | AS-D           | B-D          | BA-D         | BE-D  | BI-D  | CA-D        | CD-D           | CO-D       | CR-D         | cu-D  | FE-D         | HG-D          | K-D    | LA-D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | DI-D     | MG-D                                  | MN-D           |
|-----------------|------------------------|----------|----------------------------------------------|----------------|--------------|--------------|-------|-------|-------------|----------------|------------|--------------|-------|--------------|---------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------------------|----------------|
| Secular States  | ning stationer lager   |          | 70080389498                                  |                |              | Selected and |       |       |             | automorphology |            | Sales and B  |       |              | March 199     |        | Distantia de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de |          | - NG-D                                | A REAL PARTY D |
| 2.5465208182192 | ·资金》(资金)               | mg/L     | mg/L                                         | mg/L           | Trog/Li      | ng/L         | mg/L  | mg/L  | mg/L        | mg/L           | 75, To     | mg/L         | mg/L  | mg/L         | mcr/L         | mg/L   | ກນຊາ/ໄ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | mg/L/    | mg/L                                  | mg/L           |
|                 | 9/27/2002              |          |                                              |                |              |              |       |       | -           |                |            |              |       |              |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                       |                |
|                 | 9/27/2002              |          |                                              |                |              |              |       |       |             |                |            | <u> </u>     |       |              |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                       |                |
|                 | 9/29/2002              |          |                                              |                |              |              |       |       |             |                |            |              |       |              |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Į        |                                       |                |
|                 | 10/3/2002              |          |                                              |                |              |              |       |       |             |                |            |              |       |              |               |        | ļ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                                       |                |
|                 | 10/3/2002              |          | <u> </u>                                     |                |              |              |       |       | <del></del> |                | ·····•     | <u> </u>     |       |              | h             |        | [                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                                       |                |
|                 | 10/12/2002             |          |                                              |                |              |              |       |       |             |                |            |              |       |              |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | ·····                                 |                |
|                 | 10/15/2002             |          | <u> </u>                                     |                |              |              |       |       |             |                |            |              |       |              |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                       |                |
|                 | 10/15/2002             |          | 0.029                                        | 0.005          | 0.15         | 0.082        | <0.2  | <0.01 | 205.1       | 0.3            | 0.004      | <0.001       | 0.019 | 0.065        |               | 7.4    | 0.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | [        | 40.6                                  | 7.614          |
|                 | 10/21/2002             |          |                                              |                |              |              |       |       |             |                |            |              |       |              |               |        | ···                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |                                       |                |
|                 | 10/21/2002             |          | <u> </u>                                     |                | <u> </u>     |              | L     |       |             |                |            | <u> </u>     | ]     | <u> </u>     |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                       |                |
|                 | 10/29/2002             |          |                                              |                |              |              |       |       |             |                |            |              |       | ·····        | j             |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | <u> </u>                              |                |
|                 | 10/29/2002             |          |                                              |                |              |              |       |       |             |                |            |              |       |              |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                       |                |
|                 | 11/5/2002              |          |                                              |                |              |              |       |       |             |                |            | <u> </u>     | ·     |              |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                       |                |
| {               | 11/12/2002             |          | 0.014                                        | 0.004          | 0.1          | 0.059        | 0.3   | <0.01 | 251.8       | <0.2           | 0.012      | <0.001       | 0.016 | 0.237        |               | 8.6    | <0.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <u> </u> | 47.4                                  | 10.921         |
|                 | 11/19/2002             |          | <u></u>                                      |                | <u> </u>     | 0.035        |       |       | ****        |                | 0.014      | 1            | 0.010 | 0.237        | 1             | 0.0    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u> </u> | 41.4                                  | 40.341         |
|                 | 11/26/2002             |          |                                              |                |              |              |       |       |             |                | ·······    |              |       |              |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                       |                |
|                 | 12/3/2002              |          |                                              |                |              |              |       |       |             |                |            |              |       |              |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u> </u> |                                       |                |
|                 | 12/10/2002             |          |                                              |                |              |              |       |       |             |                |            |              |       |              |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                       |                |
| J               | 12/10/2002             |          | 0.024                                        | 0.043          | 0.09         | 0.06         | 0.5   | <0.01 | 223.7       | 0.7            | 0.009      | <0.001       | 0.025 | 0.213        |               | 8.3    | <0.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          | 49.6                                  | 10.173         |
|                 | 12/15/2002             |          |                                              |                |              |              |       |       |             |                |            | <u> </u>     |       |              |               |        | Į                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ļ        |                                       | L              |
|                 | 12/17/2002             |          | <u> </u>                                     |                |              |              | ļ     |       |             |                |            |              |       |              |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                       |                |
|                 | 12/31/2002             |          |                                              |                |              |              |       |       |             |                |            | <u> </u>     |       |              |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                       |                |
| X14             | 12/31/2002             | <u> </u> | <del>{</del>                                 |                | []           |              |       |       |             |                |            |              |       |              |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Į        |                                       | ├────┤         |
|                 | 1/12/1998              |          |                                              |                |              |              | ·     |       |             |                |            |              |       |              |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                       | <u> </u>       |
|                 | 2/24/1998              |          |                                              |                |              |              |       |       |             |                |            | 1            |       |              |               |        | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                                       |                |
|                 | 3/17/1998              |          |                                              |                |              |              |       |       |             |                |            |              |       |              |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                       | ·              |
|                 | 4/13/1998              |          |                                              |                |              |              |       |       |             |                |            |              |       |              |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                       |                |
|                 | 4/16/1998              |          | <u> </u>                                     | <u> </u>       | ]            |              |       |       |             |                |            | <u> </u>     | ļ     | <u> </u>     |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u> </u> | ·                                     |                |
|                 | 4/22/1998              |          |                                              |                |              |              |       |       | _           |                |            |              |       |              |               | -      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u> </u> |                                       | ·              |
|                 | 4/24/1998              |          |                                              |                |              |              |       |       |             |                |            | <u> </u>     |       |              |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                       |                |
|                 | 4/20/1998              |          |                                              |                |              |              |       |       |             |                |            |              |       |              |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                       |                |
|                 | 5/18/1998              |          | ·{                                           |                |              | 1            |       |       |             |                |            | 1            | {     |              | 1             |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                       | {              |
|                 | 6/15/1998              |          | <u> </u>                                     | ·····          |              |              |       |       |             |                |            |              |       |              |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1        | · · · · · · · · · · · · · · · · · · · |                |
|                 | 6/19/1998              |          |                                              |                |              |              |       |       |             |                |            |              |       |              |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                       |                |
|                 | 6/20/1998              |          |                                              |                |              |              |       |       |             |                |            |              | L     |              |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                       |                |
|                 | 6/21/1998              |          |                                              |                |              |              |       |       |             |                |            | <u> </u>     |       |              |               | ······ |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ļ        |                                       |                |
| }               | 6/21/1998              |          | <u>}                                    </u> | }              |              |              |       | ]     |             |                |            | }            |       | <u> </u>     | <u> </u>      |        | }                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <u> </u> |                                       | l              |
|                 | 7/21/1998              |          |                                              | <u> </u>       |              |              |       |       |             |                | 10.00 ···· | <del> </del> |       |              |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                       |                |
|                 | 8/4/1998<br>8/10/1998  |          |                                              | <u> </u>       |              |              |       |       |             |                | <u> </u>   | <u> </u>     |       |              |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                       |                |
|                 | 9/25/1998              |          | <u> </u>                                     |                |              |              |       |       |             |                |            | <u> </u>     |       |              |               | ****** | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                                       |                |
|                 | 10/19/1998             | <.003    | <.05                                         | <.02           | <.05         | 0.017        | <.001 | < 04  | 59.7        | <.002          | 0.01       | <.005        | 0.005 | 0.12         |               | 2      | <.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          | 12.9                                  | 0.86           |
|                 | 11/17/1998             |          | 1                                            |                |              |              |       |       |             |                |            |              |       |              |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                       |                |
| ļ               | 12/21/1998             |          | <.05                                         | <.005          | 0.1          | 0.02         | <.001 | <.04  | 92.7        | <.001          | <.005      | <.005        | 0.014 | <.01         |               | 3      | <.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          | 18.3                                  | 1.37           |
|                 | 1/18/1999              |          | <.05                                         | <.005          | <.05         | 0.025        | <.001 | <.04  | 115.2       | 0.001          | <.005      | 0.112        | 0.011 | 0.04         |               | 3      | <.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          | 23.5                                  | 2.57           |
|                 | 2/22/1999<br>3/17/1999 |          | 0.08                                         | <.005<br><.005 | 0.21         | 0.026        | <.001 | <.04  | 135.5       | <.001<br><.001 | <.005      | 0.161        | 0.012 | 0.07<br><.01 | <del>  </del> | 4      | <.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          | 26.6<br>20.8                          | 3.04           |
|                 | 4/20/1999              |          | <.05                                         | <.005          | 0.08<br><.05 | 0.026        | 0.001 | <.04  | 88.3        | <.001          | <.005      | <.005        | 0.014 | 0.19         | <u>├</u>      | 3      | <.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u> </u> | 19.3                                  | 2.02           |
|                 | 5/17/1999              |          | <.05                                         | <.005          | <.05         | 0.016        | 0.002 | <.04  | 15.2        | <.001          | <.005      | <.005        | 0.057 | 0.08         |               | 2      | <.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u> </u> | 3.1                                   | 0.35           |
| <u> </u>        | 6/25/1999              |          | <u> </u>                                     |                |              |              |       |       |             |                |            |              |       |              |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                       |                |
|                 | 7/3/1999               |          | <.05                                         | <.005          | 0.24         | 0.01         | <.001 | <.04  | 25.2        | <.001          | <.005      | <.005        | <.002 | 0.3          |               | <1     | <.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          | 5.5                                   | 0.35           |
|                 | 7/27/1999              |          | <.05                                         | <.005          | <.05         | 0.036        | 0.001 | <.04  | 25          | 0.006          | 0.081      | <.005        | 0.007 | 0.18         |               | <1     | <.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          | 6.5                                   | 0.27           |
|                 | 7/29/1999              |          | L                                            |                |              |              |       |       |             |                |            |              |       |              |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                       |                |
|                 | 8/12/1999              |          | <.05                                         | <.005          | 0.06         | 0.107        | <.001 | <.04  | 59.9        | 0.005          | <.005      | <.005        | 0.008 | 0.1          |               | 7      | <.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          | 12                                    | 0.63           |
|                 | 8/31/1999              |          |                                              | < 005          |              | 0.001        | - 001 | < 04  | 52.7        | <.001          | <.005      | <.005        | 0.006 | 0.05         |               | 2      | < 005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          | 11.1                                  | 0.78           |
|                 | 9/10/1999              |          | <.05                                         | <.005<br><.005 | <.05<br><.05 | 0.021        | <.001 | <.04  | 48.7        | <.001          | <.005      | <.005        | <.002 | 0.05         | tl            | <1     | <.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          | 10.1                                  | 0.78           |
|                 | 11/22/1999             |          | <.05                                         | <.005          | <.05         | 0.026        | <.001 | <.04  | 44.7        | <.001          | <.005      | <.005        | 0.008 | 0.07         |               | <1     | <.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          | 10.5                                  | 1.06           |
|                 | 12/14/1999             |          | 0.05                                         | <.005          | <.05         | 0.086        | <.001 | <.04  | 73.8        | <.001          | <.005      | <.005        | 0.009 | 0.13         |               | 4      | <.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          | 13.7                                  | 1.16           |
|                 |                        |          |                                              |                |              |              |       |       |             |                |            |              |       |              |               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ·        |                                       |                |

| Station  | Date        | AG-D         | AL-D  | AS-D       | B-D          | BA-D              | BE-D          | BI-D                       | Су-Д         | CD-D   | со-р        | CR-D         | CU-D           | FE-D        | HG-D             | K-D             | LA-D              | LI-D            | NAMES AND ADDRESS | ADDRESS CONTRACTOR  |
|----------|-------------|--------------|-------|------------|--------------|-------------------|---------------|----------------------------|--------------|--------|-------------|--------------|----------------|-------------|------------------|-----------------|-------------------|-----------------|-------------------|---------------------|
|          |             | a da antaria |       | MANAGE CON | SAMPA (Gale) | 1738-14785-1785-1 | 2012 No. 1940 | New York Control of Street | entre aspire |        | SA COLORNAL | 107801970300 | BARDS PRODUCTS | Manager and |                  | SPECIAL SECTION | 20035585 FEB 2006 | termenter tagen | NG-D              | MN-D                |
|          | Solgezhiek. | mg/L         | mg/L  | mg/L       | mg/L         | mg/L              | mg/L          | mg/L                       | ng/L         | mg/L   | mg/L        | mg/L         | <i>∞π</i> α/L® | mg/L        | mg/L             | ाज्य / L        | ng/L              | mg/L            |                   | 1960/1979/1979/1979 |
| L        | 1/27/2000   | <.003        | <.05  | <.005      | <.05         | 0.048             | <.001         | <.05                       | 89.6         | 0.001  | <.005       | <.005        | 0.009          | 0.05        | CONTRACTOR AND A | 3               | <.005             | 2587 JBG / L/   | ng/1.<br>18       | mg/1.<br>2.13       |
| L        | 2/28/2000   | <.003        | 0.14  | < 005      | <.05         | 0.033             | <.001         | <.05                       | 89.3         | <.001  | <.005       | <.005        | 0.015          | 0.16        |                  | 4               | 0.018             |                 | 19.1              | 1.72                |
|          | 3/23/2000   | <.003        | 0.13  | <.005      | <.05         | 0.146             | <.001         | <.05                       | 96.9         | <.001  | 0.031       | <.005        | <.002          | 0.07        |                  | 2               | <.005             |                 | 20                | 2.18                |
| ]        | 4/27/2000   | <.003        | 0.15  | <.005      | <.05         | 0.042             | 0.001         | <.05                       | 107.4        | <.001  | <.005       | <.005        | 0.016          | 0.19        |                  | 2               | <.005             |                 | 22.9              | 2.49                |
| l        | 5/15/2000   | <.003        | <.05  | 0.009      | <.05         | 0.012             | <.001         | <.05                       | 29           | <.001  | <.005       | <.005        | 0.002          | 0.26        |                  | <1              | 0.044             |                 | 6.9               | 0.26                |
|          | 6/26/2000   | <.003        | <.05  | <.005      | <.05         | 0.008             | <.001         | <.05                       | 40.6         | <.001  | <.005       | <.005        | 0.005          | <.01        |                  | 3               | <.005             |                 | 8.1               | 0.86                |
|          | 7/25/2000   | <.003        | <.05  | <.005      | <.05         | 0.023             | <.001         | <.05                       | 54.2         | <.001  | 0.025       | <.005        | 0.007          | 0.17        |                  | 3               | 0.055             |                 | 11.5              | 1                   |
| ļ        | 8/29/2000   | <.003        | 0.11  | <.005      | <.05         | 0.016             | <.001         | <.05                       | 31.9         | <.001  | <.005       | <.005        | <.002          | <.01        |                  | <1              | <.005             |                 | 7                 | 0.34                |
|          | 9/25/2000   | <0.01        | 0.07  | <0.2       | <0.1         | 0.04              | <0.005        | <0.1                       | 28.9         | <0.001 | <0.01       | <0.01        | <0.01          | 0.13        |                  | <2              |                   | <0.01           | 6.5               | 0,108               |
|          | 10/28/2002  |              |       |            |              |                   |               |                            |              |        | I           |              |                |             |                  |                 |                   |                 |                   |                     |
|          | 10/29/2000  |              | 0.13  | <.005      | <.05         | 0.029             | <.001         | <.05                       | 40.5         | <.001  | <.005       | <.005        | 0.011          | 0.32        |                  | 2               | <.005             |                 | 9.4               | 0.41                |
|          | 11/13/2000  | <0.003       | <0.05 | 0.01       | <0.05        | 0.109             | <0.001        | <0.05                      | 58.2         | <0.001 | <0.005      | <0.005       | <0.002         | 0.12        |                  | 2               | 0.023             |                 | 13.3              | 0.98                |
|          | 11/18/2000  | <0.01        | <0.05 | <0.2       | <0.1         | 0.06              | <0.005        | <0.1                       | 67.1         | <0.001 | <0.01       | <0.01        | <0.01          | 0.05        |                  | <2              |                   | <0.01           | 13.7              | 0.885               |
|          | 12/14/2000  | <0.01        | <0.05 | <0.2       | <0.1         | 0.07              | <0.005        | <0.1                       | 73.5         | <0.001 | <0.01       | <0.01        | <0.01          | <0.01       |                  | 2               |                   | <0.01           | 15.6              | 1.14                |
|          | 1/13/2001   | <.003        | <.05  | 0.03       | <.05         | 0.027             | 0.001         | <.05                       | 71.6         | 0.001  | <.005       | <.005        | 0.022          | 0.3         |                  | 2               | <.005             |                 | 16.4              | 0.96                |
|          | 2/10/2001   | <.003        | <.05  | <.005      | <.05         | 0.027             | <.001         | <.05                       | 80.2         | <.001  | <.005       | <.005        | 0.007          | 0.14        |                  | 3               | <.005             |                 | 17.6              | 1.3                 |
|          | 3/10/2001   | <.003        | 0.3   | <.005      | <.05         | 0.13              | <.001         | <.05                       |              | <.001  | <.005       | <.005        | 0.005          | 0.04        |                  | 1               | <.005             |                 | 18.14             | 1.99                |
|          | 4/16/2001   | <.003        | <.05  | <.005      | <.05         | 0.13              | <.001         | <.05                       | 90.6         | <.001  | <.005       | <.005        | <.002          | 0.02        |                  | <1              | <.005             |                 | 19.2              | 1.94                |
|          | 5/14/2001   | <.003        | 0.19  | <.005      | <.05         | 0.126             | <.001         | <.05                       | 72.3         | <.001  | 0.016       | <.005        | 0.01           | 0.32        |                  | 14              | 0.016             |                 | 14.3              | 1.13                |
|          | 6/17/2001   | <.003        | <.05  | <.005      | 0.1          | 0.085             | <.001         | <.05                       | 19.2         | <.001  | <.005       | <.005        | <.002          | 0.1         |                  | <1              | <.005             |                 | 4.3               | 0.13                |
|          | 7/14/2001   | <.003        | <.05  | <.005      | 0.21         | 0.068             | <.001         | <.05                       | 38.8         | <.001  | <.005       | <.005        | <.002          | 0.05        |                  | 1               | <.005             |                 | 8.2               | 0.34                |
|          | 8/14/2001   | <0.003       | <0.05 | 0.006      | <0.05        | 0.108             | <0.001        | <0.05                      | 68.4         | <0.001 | <0.005      | <0.005       | 0.002          | 0.06        |                  | 2               | <0.005            |                 | 15.2              | 0.6                 |
|          | 9/17/2001   | <0.003       | <0.05 | 0.026      | <0.05        | 0.09              | <0.001        | <0.05                      | 51.3         | <0.001 | <0.005      | 0.005        | <0.002         | 0.1         |                  | 2               | 0.008             |                 | 11.4              | 0.64                |
| <u> </u> | 10/15/2001  | <0.003       | <0.05 | <0.005     | 0.1          | 0.061             | <0.001        | <0.05                      | 106.4        | <0.001 | <0.005      | 0.009        | <0.002         | <0.01       |                  | 5               | 0.026             |                 | 24.6              | 1.6                 |
|          | 11/13/2001  | <0.003       | <0.05 | 0.01       | <0.05        | 0.109             | <0.001        | <0.05                      | 58.2         | <0.001 | <0.005      | <0.005       | <0.002         | 0.12        |                  | 2               | 0.023             |                 | 13.3              | 0.98                |
|          | 12/14/2001  |              |       |            |              |                   |               |                            |              |        |             |              |                |             |                  |                 |                   |                 |                   |                     |
| ·        | 12/15/2001  |              | <0.05 | <0.005     | <0.05        | 0.059             | <0.001        | <0.05                      | 113.1        | <0.001 | <0.005      | <0.005       | <0.002         | 0.05        |                  | 3               | 0.037             |                 | 26.5              | 1.94                |
| J        | 1/15/2002   |              | <0.05 | <0.005     | <0.05        | 0.156             | <0.001        | <0.05                      | 61.2         | <0.001 | <0.005      | <0.005       | <0.002         | 0.15        |                  | 2               | 0.015             |                 | 13.1              | 0.82                |
|          | 2/12/2002   | <0.001       | <0.05 | <0.005     | <0.05        | 0.115             | <0.001        | <0.05                      | 66.1         | <0.001 | <0.005      | 0.006        | <0.002         | 0.06        |                  | 2               | 0.007             |                 | 12.5              | 0.87                |
| L        | 3/12/2002   |              | <0.05 | <0.005     | 0.11         | 0.205             | <0.001        | <0.05                      | 115.3        | <0.001 | <0.005      | <0.005       | 0.019          | 0.03        |                  | 4               | 0.007             |                 | 21.9              | 2.52                |
| <b> </b> | 4/15/2002   | <0.001       | <0.05 | <0.005     | <0.05        | 0.106             | <0.001        | <0.05                      | 123.6        | 0.002  | <0.005      | 0.009        | 0.003          | 0.09        |                  | 4               | 0.007             |                 | 22.9              | 2.5                 |
| ļ        | 5/13/2002   | <0.001       | 0.1   | <0.005     | <0.05        | 0.126             | <0.001        | <0.05                      | 37           | <0.001 | <0.005      | <0.005       | 0.019          | 0.31        |                  | 2               | <0.005            |                 | 7.4               | 0.36                |
| L        | 6/16/2002   | <0.2         | 0.078 | 0.004      | 0.09         | 0.151             | <0.2          | <0.01                      | 27.6         | 0.4    | <0.001      | 0.003        | 0.009          | 0.165       |                  | 1.1             | 0.004             |                 | 6                 | 0.217               |
|          | 7/16/2002   | 1.9          | 0.068 | 0.004      | <0.05        | 0.095             | 0.2           | <0.01                      | 71.9         | <0.2   | 0.002       | 0.001        | 0.011          | 0.119       |                  | 2.8             | 0.004             |                 | 15.9              | 0.612               |
| Į        | 8/12/2002   | 0.2          | 0.086 | <0.003     | 0.05         | 0.042             | <0.2          | <0.01                      | 38.4         | <0.2   | 0.002       | <0.001       | 0.015          | 0.191       | 125              | 1.2             | 0.005             |                 | 7.4               | 0.34                |
| J        | 9/16/2002   | 0.3          | 0.087 | <0.003     | 0.07         | 0.148             | <0.2          | <0.01                      | 60.6         | 0.5    | <0.001      | 0.005        | 0.018          | 0.134       |                  | 2.5             | 0.005             |                 | 13.9              | 0.534               |
| ļ        | 10/15/2002  | 0.3          | 0.05  | <0.003     | 0.12         | 0.145             | <0.2          | <0.01                      | 42           | <0.2   | <0.001      | 0.001        | 0.028          | 0.186       |                  | 1.4             | 0.004             |                 | 9.1               | 0.304               |
| J        | 11/11/2002  |              |       |            |              |                   |               |                            |              |        |             |              |                |             |                  |                 |                   |                 |                   |                     |
| <b> </b> | 11/12/2002  | <0.2         | 0.04  | <0.003     | 0.09         | 0.112             | <0.2          | <0.01                      | 54.6         | 0.7    | <0.001      | 0.002        | 0.024          | 0.236       |                  | 1.6             | 0.004             |                 | 11.1              | 0.57                |
| L        | 12/10/2002  | <0.2         | 0.03  | 0.009      | 0.08         | 0.118             | 0.3           | <0.01                      | 62.3         | 0.7    | 0.002       | <0.001       | 0.032          | 0.115       |                  | 2               | 0.004             |                 | 14.6              | 0.907               |

| Station       | Date                                     | NO-D     | NA-D             | NI-D            | P-D         | PB-D           | 8-D                  | 8B-D          | BE-D            | SI-D     | SN-D           | SR-D         | TI-D            | TL-D      | V-D             | W-D           | CARDO AND MANYO |
|---------------|------------------------------------------|----------|------------------|-----------------|-------------|----------------|----------------------|---------------|-----------------|----------|----------------|--------------|-----------------|-----------|-----------------|---------------|-----------------|
| 103509250255  |                                          |          | STATE OF COMPANY |                 | 2010000000  | WEDNIER OFER   | er de la compañía    | <u>88-0</u>   | NAMES AND A     | NEW REAL | -NAR AND       | BER DECEMBER | 02268366666     |           | CONTRACTOR OF T |               | ZN-D            |
| 122102200480  | an an an an an an an an an an an an an a | mg/L     | mg/L             | mg/L            | mg/L        | mg/L           | mg/L                 | mg/Lis        | mg/L            | mg/L     | mg/L           | mg/Li        | mg/L            | mg/L      | mg/L            | mg/L          | mg/L            |
| FDU           |                                          |          |                  |                 | 1           |                |                      |               |                 |          |                |              |                 |           |                 |               | 104g / 14       |
|               | 5/19/1998                                |          |                  |                 | 1           |                |                      |               |                 |          |                |              |                 |           |                 | 1             |                 |
|               | 5/17/1999                                |          | <1               | <.005           | 1.12        | <.01           |                      | <.03          | <.03            | 1        | <.01           | 0.033        | <.005           |           | 0.03            | <.03          | 0.06            |
|               | 10/30/1999                               |          | 4                | <.005           | <.04        | <.01           | <1                   | <.03          | <.005           | 5.1      | <.01           | 0.025        | <.005           |           | <.005           | <.03          | <.01            |
|               | 6/11/2002                                | <0.001   | 1.4              | <0.001          | <0.01       | 0.009          | 0.4                  | <0.002        | <0.005          | . 5.4    | <0.002         | 0.013        | 0.001           |           | <0.001          | <0.03         | <0.001          |
| <u>R2</u>     |                                          |          |                  |                 |             |                |                      | l             |                 |          |                |              |                 |           |                 |               |                 |
| <u> </u>      | 8/5/1998                                 |          | 9.7              | 0.001           | 0.036       | <.004          | 7                    | 0.009         | <.001           | 3.559    | <.002          | 0.2071       | 0.001           |           | <.001           | <.006         | 0.021           |
| ļ             | 9/9/1998                                 | <.002    | 8                | <.005           | <.04        | <.01           | 38.8                 | <.03          | <.005           | 3.28     | <.01           | 0.212        | <.005           |           | <.005           | <.03          | 0.03            |
| ļ             | 9/10/1998                                |          |                  |                 |             |                |                      |               |                 |          |                |              |                 |           |                 |               |                 |
| ļ             | 7/31/2000                                |          | 4.97             | 0.0018          | 0.7         | 0.004          | 24.73                | <.001         | <.001           | 3.88     | <.0004         | 0.1551       | 0.0044          |           | 0.0123          | <.001         | 0.0351          |
| <u> </u>      | 9/5/2000                                 | <.0001   | 2.233            | <.0002          | <.2         | <.001          | 7,107                | <.001         | <.001           | 4.786    | <.0004         | 0.1          | 0.006           |           | <.0002          | <.001         | 0.008           |
| R3            | 0.15.13.000                              | 0.0010   |                  |                 |             |                |                      |               |                 |          |                |              |                 | · · · · · |                 |               |                 |
| }             | 8/5/1998<br>9/9/1998                     |          | 9.5              | <.001           | 0.158       | <.004          | 3.1                  | <.006         | <.001           | 8.583    | <.002          | 0.173        | <.001           |           | <.001           | <.006         | <.002           |
| }             | 9/10/1998                                | <.002    | 7                | <.005           | 0.19        | <.01           | 34.5                 | <.03          | <.005           | 3.64     | <.01           | 0.196        | <.005           |           | 0.005           | <.03          | 0.02            |
|               | 8/1/2000                                 | 0.0041   | 4.76             | <.0002          | 1.2         | 1 001          | 22.65                | - 001         |                 |          |                |              |                 |           |                 |               |                 |
| <u>}</u>      | 9/6/2000                                 |          | 2.327            | <.0002          |             | <.001          |                      | <.001         | <.001           | 4.01     | <.0004         | 0.1471       | 0.0037          |           | 0.001           | <.001         | 0.0341          |
| R4            | 37072000                                 | ~.0001   | 4.361            | <u></u>         | <.2         | <.001          | 6.632                | <.001         | <.001           | 4.994    | <.0004         | 0.099        | 0.007           |           | <.0002          | <.001         | 0.006           |
| 17. F         | 8/5/1998                                 | 0.0016   | 7.2              | <.001           | 0.46        | <.004          | 2                    | <.006         | <.001           | 2.496    | <.002          | 0.1877       | <.001           |           | 0.000           |               | 0.011           |
|               | 9/9/1998                                 |          | 7                | <.005           | 0.04        | <.01           | 31.1                 | <.008         | <.001           | 2.495    | <.002          | 0.1877       | <.001           |           | 0.003           | <.006         | 0.014           |
|               | 9/10/1998                                | 1.002    |                  |                 | v.v.        | ~.01           | 21.1                 |               |                 | 3.40     | <.UI           | 0.13         | <.005           |           | <.005           | <.03          | <.01            |
|               | 3/17/1999                                | <.002    | 10               | <.005           | 0.29        | <.01           | 55                   | <.03          | <.03            | 3.9      | <.01           | 0.285        | <.005           |           | <.005           | <.03          | <.01            |
| 1             | 8/1/2000                                 |          | 4.13             | 0.0046          | 0.5         | <.001          | 20.81                | <.001         | <.001           | 3.58     | <.001          | 0.1344       | 0.0029          |           | 0.0011          | <.001         | <.01<br>0.0233  |
| R5            |                                          |          |                  |                 |             |                |                      |               |                 |          |                | 0.1044       | 0.0025          |           | 0.0011          | <u>,,,,,</u>  | 0.0233          |
|               | 8/5/1998                                 | 0.0024   | 2.9              | <.001           | <.008       | <.004          | 2                    | <.006         | <.001           | 2.159    | <.002          | 0.1254       | <.001           |           | <.001           | <.005         | 0.002           |
|               | 9/9/1998                                 | <.002    | 3                | <.005           | 0.27        | <.01           | 10.4                 | <.03          | <.005           | 3.55     | <.01           | 0.14         | <.005           |           | <.005           | <.03          | 0.03            |
|               | 9/10/1998                                |          |                  |                 |             |                |                      |               |                 |          |                |              |                 |           |                 |               |                 |
|               | 8/1/2000                                 | 0.0033   | 2.02             | 0.0009          | 0.4         | <.001          | 5.95                 | <.001         | <.001           | 3.69     | <.0004         | 0.0974       | 0.0021          |           | 0.0011          | <.001         | 0.005           |
|               | 9/6/2000                                 | 0.0005   | 2.006            | <.0002          | <.2         | <.001          | 6.057                | <.001         | <.001           | 4.821    | <.0004         | 0.096        | 0.006           |           | <.0002          | <.001         | <.0004          |
| R6            |                                          |          |                  |                 |             |                |                      |               |                 |          |                |              |                 |           |                 |               |                 |
|               | 8/5/1998                                 |          | 2.2              | <.001           | 0.123       | <.004          | 2                    | 0.012         | <.001           | 2.467    | <.002          | 0.1245       | <.001           |           | <.001           | <.006         | <.002           |
|               | 9/9/1998                                 | <.002    | 2                | <.005           | 0.22        | <.01           | 7                    | <.03          | <.005           | 3.57     | <.01           | 0.126        | <.005           |           | <.005           | <.03          | 0.04            |
| Į             | 9/10/1998                                |          |                  |                 |             |                |                      |               |                 |          |                |              |                 |           |                 |               |                 |
| ļ             | 8/1/2000                                 |          | 1.73             | 0.0007          | 0.8         | <.001          | 4.33                 | <.001         | <.001           | 3.9      | <.0004         | 0.0966       | 0.0014          |           | 0.0003          | <.001         | 0.0013          |
|               | 9/6/2000                                 | 0.0004   | 2.105            | <.0002          | <.2         | <.001          | 5.955                | <.001         | <.001           | 4.109    | <.0004         | 0.096        | 0.007           |           | <.0002          | <.001         | <.0004          |
| R7            | 5/19/1998                                |          |                  |                 |             |                |                      |               |                 |          |                |              |                 |           |                 |               |                 |
| }             | 6/15/1998                                |          |                  |                 |             |                |                      |               |                 |          |                |              |                 |           |                 |               | ļ               |
|               | 8/5/1998                                 | 0.0012   | 2.6              | <.001           | <.008       | <.004          |                      | 0.000         | - 001           |          | 1 000          | 0.0000       |                 |           |                 |               |                 |
|               | 9/9/1998                                 | <.002    | 3                | <.001           | 0.19        | <.004          | <u>&lt;.2</u><br>2.8 | <.006<br><.03 | <.001<br><.005  | 2.86     | <.002<br><.01  | 0.0965       | <.001<br><.005  |           | 0.003           | <.005         | <.002           |
|               | 9/10/1998                                | <u> </u> |                  | <u> </u>        |             | ×.01           | 2.0                  | <u></u>       | <.005           | 4.10     | <u>, ,,01</u>  | 0.107        | <.005           |           | <.005           | <.03          | 0.02            |
|               | 10/19/1998                               |          |                  |                 |             |                |                      |               |                 |          |                |              |                 |           |                 |               |                 |
|               | 2/25/1999                                | <.002    | 4                | <.005           | <.04        | <.01           | 4                    | <.03          | <.03            | 5.5      | <.01           | 0.191        | 0.005           |           | <.005           | <.03          | <.01            |
|               | 5/17/1999                                |          | <1               | 0.022           | 0.54        | <.01           |                      | <.03          | <.03            | 0.6      | <.01           | 0.039        | <.005           |           | 0.018           | <.03          | 0.02            |
|               | 7/4/1999                                 |          | <1               | < 005           | <.04        | <.01           | 2                    | <.03          | <.03            | 3.5      | <.01           | 0.023        | <.005           |           | <.005           | <.03          | <.01            |
| []            | 10/30/1999                               | <.002    | 3                | < .005          | 0.04        | <.01           | 3                    | <.03          | <.005           | 4        | <.01           | 0.13         | <.005           |           | <.005           | <.03          | 0.26            |
|               | 3/26/2000                                |          | 4                | <.005           | <1          | <.01           | 4                    | <.03          | <.005           | 5.8      | <.01           | 0.207        | <.005           |           | <.005           | <.03          | <.01            |
|               | 6/3/2000                                 | <.002    | 1                | <.005           | <1          | <.01           | 1                    | <.03          | <.005           | 2.3      | <.01           | 0.055        | <.005           |           | <.005           | <.03          | <.01            |
|               | 8/1/2000                                 | 0.0028   | 1.66             | 0.0026          | 0.3         | <.001          | 1.44                 | <.001         | <.001           | 4.05     | <.0004         | 0.0743       | 0.0006          |           | 0.002           | <.001         | 0.006           |
|               | 9/6/2000                                 | <.0001   | 1.859            | <.0002          | <.2         | <.001          | 2.202                | <.001         | <.001           | 5.775    | <.0004         | 0.078        | 0.008           |           | <.0002          | <.001         | 0.003           |
| <b>/</b>      | 9/12/2000                                | <.002    | 3                | <.005           | 7           | <.01           | 7                    | <.03          | <.005           | 3.6      | <.01           | 0.003        | <.005           |           | 0.02            | <.03          | 0.04            |
|               | 3/5/2001                                 | <.002    | 7.48             | <.005           | <1          | <.01           | 3.7                  | <.03          | <.005           | 6.24     | <.01           | 0.19         | <.005           |           | <.005           | <.03          | <.01            |
|               | 6/13/2001                                | <.002    | 3                | 0.013           | <1          | <.01           | 2                    | <.03          | 0.036           | 3        | <.01           | 0.044        | <.005           |           | <.005           | <.03          | <.01            |
| JJ            | 9/8/2001                                 | <0.002   | 5                | <0.005          | <1          | <0.01          | 4                    | <0.03         | <0.005          | 5.3      | <0.01          | 0.124        | <0.005          |           | <0.005          | <0.03         | 0.69            |
|               | 3/21/2002                                | <0.002   | 6                | <0.005          | 0.02        | <0.01          | 4                    | <0.03         | <0.005          | 6.9      | 0.01           | 0.224        | <0.005          |           | <0.005          | <0.03         | <0.01           |
| <b>└───</b> ┦ | 6/25/2002                                | <0.001   | 1.7              | 0.002           | <0.01       | <0.002         | 2.3                  | <0.002        | <0.005          | 4.2      | 0.004          | 0.084        | <0.001          |           | <0.001          | <0.03         | 0.007           |
|               | 9/27/2002                                | <0.001   | 2.6              | 0.002           | <0.01       | <0.002         | 2.9                  | 0.013         | <0.005          | 4.6      | 0.024          | 0.104        | <0.001          |           | <0.001          | <0.03         | 0.008           |
| W10           |                                          |          |                  |                 |             |                |                      |               |                 |          |                |              |                 |           |                 |               |                 |
|               | 6/16/1998                                |          |                  |                 |             |                |                      |               |                 | _        |                |              |                 |           |                 |               |                 |
|               | 7/3/1999                                 | <.002    | < <u>1</u><br>2  | <.005<br><.005  | <.04        | <.01           | <1                   | <.03          | <.03            | 6.1      | <.01           | <.002        | <.005           |           | <.005           | <.03          | <.01            |
|               |                                          |          |                  |                 | <1          | <.01           | <1                   | <.03          | <.005           | 3.5      | <.01           | 0.041        | <.005           |           | <.005           | <.03          | <.01            |
|               | 6/3/2000                                 |          |                  |                 |             |                |                      |               |                 |          |                |              |                 |           |                 |               |                 |
|               | 6/3/2000<br>6/11/2001<br>6/11/2002       | <.002    | 2                | <.005<br><0.001 | <1<br><0.01 | <.01<br><0.002 | <1<br>1.3            | <.03<br>0.005 | <.005<br><0.005 | 2.6      | <.01<br><0.002 | 0.036        | <.005<br><0.001 |           | <.005<br>0.001  | <.03<br><0.03 | 0.02            |

| Station     | Date                   | MO-D     | NA-D       | NI-D          | P-D    | PB-D      | 8-D       | 8B-D  | SE-D     | SI-D     | 8N-D          | SR-D                                  | TI-D  | TL-D     | V-D         | W-D          | ZN-D         |
|-------------|------------------------|----------|------------|---------------|--------|-----------|-----------|-------|----------|----------|---------------|---------------------------------------|-------|----------|-------------|--------------|--------------|
|             |                        |          |            | STREAM STREAM | 時間的影響時 |           |           |       |          | 必要時的感激感到 | 62.436.692.22 |                                       |       |          | en konterne | Math Marking | WWWWWWW      |
| 10063658698 |                        | <b>1</b> | ್ ಗ್ಯಾ/ಗ್ರ | ng/L          | mg/L   | mg/L      | mg/L      |       | mg/L     | mg/L     | mg/L          | ∭rtiq/L                               | mg/L  | mg/L     | mg/L        | mg/L         | ng/L         |
| X5          |                        |          |            |               |        | 1         | ļ         | 1     |          |          | 1             |                                       |       |          |             |              |              |
| ļ           | 1/5/1998               |          |            |               |        |           |           |       |          |          |               | ļ                                     |       |          |             |              |              |
|             | 1/5/1998               |          | 19         | <.005         | <.04   | <.02      | 152       | <.03  | <.03     | 1.8      | <.01          | 0.423                                 | <.005 |          | <.005       | <.03         | 0.02         |
|             | 1/12/1998<br>1/12/1998 |          |            |               |        |           |           |       |          |          |               | 1                                     |       | ·        | <u> </u>    |              | L            |
|             | 1/19/1998              |          |            |               | ···· · |           |           |       |          |          |               |                                       |       |          | ļ           |              | ļ            |
|             | 1/23/1998              |          |            |               |        |           |           |       |          |          |               |                                       |       |          | ļ           |              |              |
|             | 1/28/1998              |          |            |               |        |           |           |       |          |          |               |                                       |       |          |             |              |              |
|             | 2/2/1998               |          |            |               |        |           | <u> </u>  |       |          |          |               |                                       |       |          |             |              | ₊            |
|             | 2/5/1998               |          |            |               |        |           | }         |       |          |          |               |                                       |       | · ·      | 1           |              |              |
|             | 2/9/1998               |          |            |               |        |           |           |       |          | h        |               |                                       |       |          |             |              |              |
| · · ·       | 2/12/1998              |          |            |               |        |           | ·         |       |          |          |               |                                       |       |          | 1           |              |              |
|             | 2/14/1998              |          |            |               |        | 1         |           |       |          |          |               |                                       |       |          |             |              |              |
|             | 2/18/1998              |          |            |               |        |           | 1         | · · · |          |          |               |                                       |       |          |             |              |              |
|             | 2/19/1998              |          |            |               |        | 1         |           |       |          |          |               | · · · · · · · · · · · · · · · · · · · |       |          |             |              |              |
|             | 4/13/1998              |          | 21         | 0.011         | <.04   | <.02      | 118       | <.03  | <.03     | 3.6      | <.01          | 0.398                                 | 0.007 |          | <.005       | <.03         | 0.01         |
|             | 4/22/1998              |          |            |               |        |           |           |       |          | 3.5      | <u> </u>      | 0.330                                 | 0.007 |          | <.005       | ×.03         | 0.01         |
|             | 4/24/1998              |          |            |               |        |           |           |       |          | 1        | <u> </u>      |                                       | i     | 1        |             |              |              |
|             | 4/26/1998              |          |            | 1             | 1      |           |           |       |          | 1        |               |                                       | I     | 1        |             |              | <u> </u>     |
|             | 4/30/1998              |          |            | l             |        | 1         | i         | i     |          | Í        |               |                                       |       | 1        |             |              | <u> </u>     |
|             | 5/1/1998               |          |            | 1             |        |           |           |       |          |          |               |                                       |       | 1        |             |              |              |
|             | 5/4/1998               |          |            |               |        |           |           |       |          |          |               |                                       |       |          |             |              |              |
| [           | 5/9/1998               |          |            |               |        |           |           |       |          |          |               |                                       |       |          |             |              |              |
|             | 5/14/1998              |          |            |               |        |           |           |       |          |          |               |                                       |       |          |             |              |              |
| L           | 5/18/1998              | <.002    | 18         | 0.009         | 1.18   | <.02      | 140       | 0.03  | <.03     | 2.3      | <.01          | 0.325                                 | 0.005 |          | 0.031       | <.03         | 0.23         |
|             | 5/18/1998              |          |            |               | ł      | 1         |           |       |          |          |               |                                       |       |          |             |              |              |
| L           | 5/23/1998              |          |            |               |        | -         |           |       |          |          |               |                                       |       |          |             | 1            |              |
|             | 5/27/1998              |          |            |               |        | 1         |           |       |          |          |               |                                       |       |          | 1           |              |              |
| I           | 6/2/1998               |          |            |               |        | E         |           |       |          |          |               |                                       |       |          | 1           |              | 0.11         |
|             | 6/5/1998               |          |            |               |        |           |           |       |          |          |               |                                       |       |          | 1           |              |              |
| <u> </u>    | 6/8/1998               |          |            |               |        |           |           |       |          |          |               |                                       |       |          |             | 1            |              |
|             | 6/10/1998              |          |            |               |        | [         |           |       |          |          |               |                                       |       |          |             |              |              |
|             | 6/15/1998              |          |            |               |        |           |           |       |          |          |               |                                       |       |          |             |              |              |
|             | 6/19/1998              |          |            |               |        |           |           |       |          |          | ļ             |                                       |       |          |             |              |              |
|             | 6/20/1998              |          |            |               |        |           |           |       |          |          |               |                                       |       |          |             |              |              |
|             | 6/21/1998              |          |            |               |        |           |           |       |          | 1        |               |                                       |       |          |             |              |              |
|             | 6/25/1998              |          |            |               |        |           |           |       |          |          |               |                                       |       | L        |             |              |              |
|             | 6/26/1998              |          |            |               |        |           |           |       |          |          |               |                                       |       | l        |             |              |              |
| <u> </u>    | 6/30/1998              |          |            |               |        |           |           |       |          |          |               |                                       |       |          |             |              |              |
| <u> </u>    | 7/7/1998               |          |            |               |        | · · · · · |           |       |          |          |               |                                       |       |          | Į           |              | L            |
|             | 7/9/1998               |          |            |               |        |           |           |       |          |          |               |                                       |       |          |             | ļ            |              |
|             | 7/14/1998              |          |            |               |        |           | · · · · · |       |          |          |               |                                       |       |          | L           | <u> </u>     | <b> </b>     |
| L           | 7/16/1998              |          |            | <u> </u>      |        |           |           |       | <u> </u> |          |               |                                       |       |          |             | <u> </u>     |              |
|             | 7/21/1998 7/23/1998    |          |            |               |        | <u> </u>  |           |       |          |          |               |                                       |       |          |             | <u> </u>     |              |
|             |                        |          |            |               |        | <u> </u>  |           |       |          |          |               |                                       |       |          |             |              | <b>└───</b>  |
|             | 7/28/1998<br>8/1/1998  |          |            |               |        |           |           |       |          |          |               |                                       |       | <u> </u> |             |              | [            |
|             | 8/5/1998               |          |            |               |        |           |           |       |          |          |               |                                       |       |          |             |              | <sup> </sup> |
|             | 8/10/1998              |          |            |               |        |           |           |       |          |          |               |                                       |       |          |             |              | 0.15         |
|             | 8/14/1998              |          | ·          |               |        |           |           |       |          |          |               |                                       |       |          |             |              | 0.15         |
|             | 8/17/1998              |          |            |               |        |           |           |       |          |          |               |                                       |       |          |             |              |              |
|             | 8/21/1998              |          | *****      |               |        |           |           |       |          |          |               |                                       |       |          |             |              | ¦            |
|             | 8/24/1998              |          |            |               |        |           |           |       |          |          |               |                                       |       |          |             |              |              |
|             | 8/28/1998              |          |            |               |        |           |           |       |          |          |               |                                       |       |          |             |              |              |
|             | 8/31/1998              |          |            |               |        |           |           |       |          |          |               |                                       |       |          |             |              |              |
|             | 9/4/1998               |          |            |               |        |           |           |       |          |          |               |                                       |       |          |             |              |              |
|             | 9/7/1998               |          |            |               |        |           |           |       |          |          |               |                                       |       |          |             |              |              |
|             | 9/16/1998              |          |            |               |        |           |           |       |          |          |               |                                       |       |          |             |              |              |
|             | 9/21/1998              |          |            |               |        |           |           |       |          |          |               |                                       |       |          |             |              |              |
|             | 9/25/1998              |          |            |               |        |           |           |       | ~~~~     |          |               |                                       |       |          |             |              |              |
|             | 10/2/1998              |          |            |               |        |           |           |       |          |          |               |                                       |       |          |             |              |              |
|             | 10/11/1998             | i        |            |               |        |           |           |       |          |          |               |                                       |       |          |             |              |              |
| ·····       | 10/14/1998             |          |            | -             |        |           |           |       |          |          |               |                                       |       |          |             |              |              |
|             |                        |          | I          |               |        |           |           |       |          |          |               |                                       |       |          | 1           |              |              |

| Station  | Date                   | MO-D   | NA-D     | NI-D           | P-D           | PB-D                                          | S-D       | SB-D           | 8E-D          | SI-D                    | 8N-D               | 6R-D                                  | TI-D             | TL-D          | V-D    | W-D                    | ZN-D  |
|----------|------------------------|--------|----------|----------------|---------------|-----------------------------------------------|-----------|----------------|---------------|-------------------------|--------------------|---------------------------------------|------------------|---------------|--------|------------------------|-------|
|          | 605/85891869/001528/78 |        | 國際國際國際   | 0.027458.96593 |               |                                               |           |                | STORE MARKED  |                         | Stand and Standing | 125615174535522355                    | NA POSTOROVAN    | Constanting - |        | singly offer the state |       |
|          |                        | mg/L   | ng/L     | ng/L           | mg/LS         | mg/L                                          | mg/L      | mg/L           | Den mar/Lis   | 2017 <b>3067 / 1</b> 67 | mc / L             | mg/L                                  | mg/L             | mg/L          | mg/L   | TOG / L                | mg/L  |
|          | 10/19/1998             | 0.012  | 33       | 0.021          | 0.71          | <.02                                          | 146.9     | 0.04           | <.03          | 2.3                     | <.01               | 0.499                                 | 0.007            |               | 0.012  | <.03                   | 0.46  |
|          | 10/20/1998             |        |          | 1              |               |                                               |           |                |               |                         |                    |                                       | 1                |               |        |                        |       |
|          | 11/17/1998             |        |          |                |               |                                               |           |                |               |                         |                    |                                       |                  |               |        |                        |       |
|          | 1/18/1999              |        | 34       | 0.011          | <.04          | <.01                                          | 208       | <.03           | <.03          | 4.7                     | <.01               | 0.501                                 | 0.007            |               | <.005  | <.03                   | 0.16  |
|          | 2/21/1999              | 0.007  | 38       | <.005          | 1.91          | <.01                                          |           | <.03           | <.03          | 4.6                     | <.01               | 0.599                                 | 0.015            |               | <.005  | <.03                   | 0.18  |
| ļ        | 3/21/1999              | <.002  | 31       | <.005          | 0.65          | <.01                                          | 175.6     | <.03           | <.03          | 4.6                     | <.01               | 0.464                                 | <.005            |               | <.005  | <.03                   | 0.09  |
|          | 4/20/1999              | <.002  | 26       | <.005          | 0.38          | <.01                                          | 147       | <.03           | <.03          | 3.2                     | <.01               | 0.422                                 | 0.023            |               | 0.014  | <.03                   | 0.08  |
|          | 5/6/1999               | <.002  | 17       | <.005          | 0.78          | < 01                                          | 124       | <.03           | <.03          | 0.9                     | <.01               | 0.414                                 | <.005            |               | <.005  | <.03                   | 0.07  |
|          | 5/17/1999              | <.002  | 9        | <.005          | <.04          | <.01                                          |           | <.03           | <.03          | 0.3                     | <.01               | 0.176                                 | 0.016            |               | <.005  | <.03                   | <.01  |
|          | 5/27/1999              | <.002  | 12       | <.005          | <.04          | <.01                                          | 77        | <.03           | <.03          | 0.4                     | <.01               | 0.232                                 | 0.021            | 1             | <.005  | 0.1                    | 0.13  |
|          | 7/3/1999               | <.002  | 18       | <.005          | <.04          | <.01                                          | 143       | 0,03           | <.03          | 2.6                     | <.01               | 0.37                                  | <.005            |               | <.005  | <.03                   | 0.09  |
|          | 7/27/1999              | 0.005  | 21       | <.005          | 0.59          | <.01                                          | 173       | <.03           | <.03          | 2.6                     | <.01               | 0.451                                 | 0.015            |               | <.005  | <.03                   | 0.1   |
|          | 7/29/1999              | <.0004 | 23       | <.001          | 0.03          | 0.005                                         | 159.9     | <.003          | <.003         | 2.59                    | <.001              | 0.447                                 | 0.024            |               | <.001  | <.003                  | 0.1   |
|          | 8/12/1999              | <.002  | 26       | 0.019          | <.04          | <.01                                          | 164       | <.03           | <-005         | 3.5                     | <.01               | 0.457                                 | 0.006            |               | 0.024  | <.03                   | 0.07  |
|          | 9/10/1999              | 0.003  | 23       | 0.01           | <.04          | <.01                                          | 199       | <.03           | <.005         | 2.3                     | <.01               | 0.435                                 | 0.009            |               | <.005  | <.03                   | 0.06  |
|          | 10/29/1999             | <.002  | 34       | <.005          | <.04          | <.01                                          | 209       | <.03           | <.005         | 3.4                     | <.01               | 0.542                                 | <.005            |               | <.005  | <.03                   | 0.04  |
|          | 1/26/2000              | . 005  | 26       |                | - 1           |                                               |           | <u> </u>       |               |                         |                    |                                       |                  |               |        |                        | 0.05  |
|          | 3/25/2000              | <.002  | 26<br>23 | <.005          | <1            | <.01                                          | 193       | <.03           | <.005         | 5.4                     | <.01               | 0.616                                 | <.005            |               | <.005  | <.03                   | <.01  |
|          | 5/15/2000              |        | 23       | <.005          | <1            | <.01                                          | 184       | <.03           | <.005         | 4.6                     | <.01               | 0.404                                 | 0.019            |               | <.005  | <.03                   | 0.04  |
|          | 5/22/2000              | N. UU4 |          | 1              | <u> </u>      | <.U1                                          |           | 1 <.03         | <.005         | 1.6                     | <.01               | 0.19                                  | <.005            |               | <.005  | <.03                   | 0.03  |
|          | 6/4/2000               |        | 15       | <.005          | <1            | <.01                                          | 127       | <.03           | 4 005         | 1.8                     |                    | 0.754                                 |                  | · .           |        |                        |       |
| · · · ·  | 6/4/2000               | <.002  |          |                | <u> </u>      | <u>, , , , , , , , , , , , , , , , , , , </u> | 14/       | ×.03           | <.005         | 1.8                     | <.01               | 0.354                                 | <.005            |               | <.005  | <.03                   | 0.01  |
|          | 6/26/2000              |        | 23       | 0.006          | 6             | <.01                                          | 147       | <.03           | <.005         | 2.7                     | <.01               | 0.418                                 | 0.014            |               |        |                        |       |
|          | 7/25/2000              |        | 28       | 0.022          | 3             | <.01                                          | 186       | <.03           | <.005         | 2.1                     | <.01               | 0.564                                 | 0.014            |               | <.005  | <.03                   | 0.27  |
|          | 7/28/2000              |        |          | 0.022          | †             |                                               | 100       | ~.03           | <u> (1003</u> | 2.1                     | <u></u>            | V.204                                 | 0.013            | <u> </u>      | 0.02   | <.03                   | 0.2   |
|          | 8/15/2000              |        |          |                | 1             |                                               |           |                |               |                         |                    |                                       |                  |               |        |                        |       |
| }        | 8/29/2000              |        | 24       | 0.008          | <1            | <.01                                          | 199       | <.03           | <.005         | 2.9                     | <.01               | 0.437                                 | 0.027            |               | <.005  | <.03                   | 0.22  |
|          | 8/30/2000              |        |          |                | 1             |                                               |           |                |               |                         |                    | 0.437                                 |                  |               | ~.003  | 1.03                   | 0.22  |
| 1        | 9/25/2000              |        | 28       | <0.05          | <0.3          | <0.05                                         |           | <0.2           | <0.2          | 3.23                    | <0.03              | 0.525                                 | <0.01            | <0.2          | <0.03  |                        | 0.687 |
|          | 10/21/2000             |        | 33       | <.005          | <1            | <.01                                          | 169       | <.03           | <.005         | 3.7                     | <.01               | 0.55                                  | 0.015            |               | <.005  | <.03                   | 0.44  |
|          | 10/28/2000             |        |          | 1              |               |                                               |           |                |               |                         |                    | . 0.00                                |                  |               |        |                        | 0.44  |
|          | 11/13/2000             | <0.002 | 32       | <0.005         | 0.05          | <0.01                                         | 211       | 0.04           | <0.005        | 4.9                     | 0.01               | 0.524                                 | 0.014            |               | 0.008  | <0.03                  | 0.04  |
|          | 11/18/2000             | <0.01  | 32       | <0.05          | <0.3          | <0.05                                         | ĺ         | <0.2           | <0.2          | 4.07                    | <0.03              | 0.58                                  | <0.01            | <0.2          | <0.03  |                        | 0.424 |
|          | 11/28/2000             |        |          |                |               |                                               | 1         |                |               |                         |                    |                                       |                  |               |        |                        |       |
|          | 12/14/2000             | <0.01  | 30       | <0.05          | <0.3          | <0.05                                         |           | <0.2           | <0.2          | 4.3                     | <0.03              | 0.598                                 | <0.01            | <0.2          | <0.03  |                        | 0.767 |
|          | 1/13/2001              | 0.005  | 28       | <.005          | <1            | <.01                                          | 76        | <.03           | <.005         | 3.7                     | <.01               | 0.625                                 | 0.007            |               | <.005  | <.03                   | 0.36  |
|          | 2/10/2001              | <.002  | 28       | 0.023          | <1            | 0.07                                          | 94        | <.03           | <.005         | 4.1                     | <.01               | 0.383                                 | <.005            |               | 0.062  | <.03                   | 0.32  |
|          | 3/10/2001              | <.002  | 32.68    | <.005          | <1            | <.01                                          | 192       | <.03           | <.005         | 4.14                    | <.01               | 0.6                                   | <.005            |               | <.005  | <.03                   | 0.23  |
|          | 4/16/2001              | <.002  | 32       | <.005          | <1            | <.01                                          | 162       | <.03           | <.005         | 4.4                     | <.01               | 0.573                                 | 0.005            | 1             | <.005  | <.03                   | <.01  |
|          | 5/14/2001              | <.002  | 25       | <.005          | <1            | <.01                                          | 171       | <.03           | <.005         | 2.9                     | <.01               | 0.565                                 | <.005            |               | <.005  | <.03                   | 0.04  |
|          | 6/17/2001              | <.002  | 22       | 0.057          | <1            | <.01                                          | 182       | 0.03           | <.005         | 2.6                     | <.01               | 0.574                                 | <.005            |               | <.005  | <.03                   | <.01  |
|          | 6/25/2001              |        |          |                | L             |                                               |           |                |               |                         |                    |                                       |                  |               |        |                        |       |
|          | 7/14/2001              | <.002  | 24       | 0.014          | <1            | <.01                                          | 196       | <.03           | <.005         | 4.7                     | <.01               | 0.607                                 | <.005            |               | <.005  | <.03                   | 0.05  |
| J        | 8/14/2001              | <0.002 | 29       | 0.007          | <1            | <0.01                                         | 221       | <0.03          | <0.005        | . 5.2                   | <0.01              | 0.652                                 | <0.005           |               | <0.005 | <0.03                  | 0.02  |
| L        | 8/21/2001              |        |          |                | ļ             |                                               |           |                |               |                         |                    |                                       |                  |               |        |                        |       |
|          | 9/17/2001              |        | 28       | 0.009          | <1            | <0.01                                         | 210       | <0.03          | <0.005        | 4.8                     | <0.01              | 0.551                                 | <0.005           |               | <0.005 | <0.03                  | <0.01 |
|          | 10/15/2001             | <0.002 | 77       | 0.009          | <1            | <0.01                                         | 211       | <0.03          | <0.005        | 4.3                     | 0.01               | 0.547                                 | <0.005           | l             | <0.005 | <0.03                  | 0.04  |
| }        | 11/13/2001             | <0.002 | 32       | <0.005         | 0.05          | <0.01                                         | 211       | 0.04           | <0.005        | 4.9                     | 0.01               | 0.524                                 | 0.014            |               | 0.008  | <0.03                  | 0.04  |
|          | 12/14/2001             | 0.005  |          | -              |               |                                               |           |                |               |                         |                    |                                       |                  |               |        |                        |       |
|          | 12/15/2001             | 0.007  | 24       | 0.007          | 0.05          | <0.01                                         | 181       | <0.03          | <0.005        | 4.5                     | 0.08               | 0.479                                 | <0.005           |               | 0.009  | <0.03                  | 0.04  |
| <u> </u> | 1/15/2002              | 0.005  | 33       | 0.014          | <0.01         | <0.01                                         | 200       | <0.03          | 0.006         | 6.4                     | 0.05               | 0.574                                 | <0.005           |               | <0.005 | 0.04                   | 0.1   |
|          | 2/12/2002              | 0.005  | 33       | 0.001          | <0.01         | <0.01                                         | 148       | <0.03          | <0.005        | 6.5                     | 0.04               | 0.52                                  | <0.005           |               | <0.005 | <0.03                  | 0.1   |
|          | 4/15/2002              | 0.005  | 33       | 0.008          | <0.01<br>0.02 | <0.01<br><0.01                                | 179       | <0.03          | <0.005        | 6.6                     | <0.01              | 0.572                                 | <0.005           |               | <0.005 | <0.03                  | 0.1   |
|          | 5/13/2002              | <0.005 | 5        | 0.008          | 0.02          | <0.01                                         | 199<br>29 | <0.03<br><0.03 | <0.005        | 5.5                     | 0.04               | 0.576                                 | <0.005           |               | <0.005 | <0.03                  | 0.12  |
|          | 6/16/2002              | -0.002 |          | 0.005          | 0.05          | - <0.01                                       | 49        | <0.03          | <0.005        | 1.2                     | <0.01              | 0.102                                 | <0.005           |               | <0.005 | <0.03                  | 0.04  |
| <b>—</b> | 6/16/2002              | 0.007  | 25.5     | 0.007          | <0.01         | 0.004                                         | 197.7     | <0.002         | <0.005        | 4.3                     | 0.004              | 0 /00                                 | -0.001           |               | 0.000  | 10.00                  |       |
|          | 7/16/2002              | 0.00/  | 43.3     | 1. 0.007       | ~0.01         | 0.004                                         | 73111     | ×0.002         | <0.005        | <u>6.j</u>              | 0.004              | 0.489                                 | <0.001           |               | 0.001  | <0.03                  | 0.199 |
|          | 7/16/2002              | 0.008  | 23       | 0.008          | 0.08          | <0.002                                        | 203.7     | <0.002         | <0.005        | 3.8                     | 0.003              | 0.535                                 | <0.001           |               | 0.002  | -0.07                  | 0.069 |
|          | 8/12/2002              | 3.000  |          |                | 0.00          |                                               | 403.1     | -0.002         | ~0.005        |                         | 9.003              | 0.535                                 | <u>&lt;0.001</u> |               | 0.002  | <0.03                  | 0.067 |
| ·        | 8/12/2002              | 0.006  | 28.1     | 0.014          | <0.01         | 0.021                                         | 197.2     | 0.004          | <0.005        | 4.1                     | 0.002              | 0.546                                 | <0.001           |               | <0.001 | <0.03                  | 0.194 |
|          | 9/16/2002              |        |          |                |               | 0.041                                         |           | 0.004          | -0.003        | 4.1                     | 0.002              | 0.340                                 | ~0.001           |               | KV.001 | <0.03                  | 0.194 |
| L        |                        |        |          |                | T             |                                               |           |                |               |                         | 1                  | · · · · · · · · · · · · · · · · · · · | L                |               | L      |                        |       |

| Station | Date                   | MO-D               | NA-D      | מ-זא     | P-D   | PB-D         | 8-D        | 88-D   | SE-DS       | SI-D              | SN-D   | BR-D  | TI-D   | TL-D     | V-D              | 1965 - <b>19</b> 79 - 1967 - 1 | 88000 <b></b> |
|---------|------------------------|--------------------|-----------|----------|-------|--------------|------------|--------|-------------|-------------------|--------|-------|--------|----------|------------------|--------------------------------|---------------|
|         |                        | i Cabier (Hanarda) | (1964-Esk |          |       |              |            |        |             |                   | BH-D   | BR-D  | IT-D   |          | 679860 <b>AD</b> | W-D                            | ZN-D          |
|         |                        | mg/L               | mg/L      | mg/L     | mg/L  | mg/L         | ng/L       | mg/L   | mgr/L       | ng/L              | mg/L   | mg/L  | mg/L   | ភេជ្ជ/៤  | mg/L             | mg/L                           | mg/L          |
|         | 9/16/2002              | 0.005              | 26.4      | 0.005    | 0.03  | <0.002       | 212.5      | 0.003  | <0.005      | 4.1               | <0.002 | 0.566 | <0.001 |          | 0.001            | <0.03                          | 0.095         |
|         | 9/29/2002              |                    |           |          |       |              |            |        |             |                   |        |       |        |          |                  |                                |               |
|         | 10/15/2002             |                    |           |          |       |              |            |        |             |                   |        |       |        |          |                  |                                |               |
|         | 10/15/2002             |                    | 31.6      | 0.013    | 0.03  | 0.014        | 225.3      | <0.002 | <0.005      | 5                 | <0.002 | 0.621 | <0.001 |          | <0.001           | <0.03                          | 0.255         |
|         | 11/12/2002             |                    |           |          |       |              |            |        |             |                   |        |       | 1      |          |                  |                                |               |
|         | 11/12/2002             |                    | 30.8      | 0.013    | <0.01 | 0.017        | 214.3      | 0.003  | <0.005      | 5.3               | 0.005  | 0.598 | <0.001 |          | 0.002            | <0.03                          | 0.264         |
|         | 12/10/2002             |                    |           |          |       |              |            |        |             |                   |        |       | [      |          |                  |                                |               |
| L       | 12/10/2002             |                    | 26.5      | 0.011    | <0.01 | 0.011        | 204.1      | 0.002  | <0.005      | 5.9               | 0.004  | 0.554 | <0.001 |          | <0.001           | <0.03                          | 0.283         |
|         | 12/15/2002             |                    |           |          |       |              |            |        |             |                   |        |       |        |          |                  |                                |               |
| X13     |                        |                    |           |          |       |              |            |        |             |                   |        |       |        |          |                  |                                |               |
| ·····   | 1/5/1998               |                    | 37        | 0.006    | <.04  | <.02         | 192        | <.03   | 0.039       | 5.8               | 0.05   | 0.602 | <.005  |          | <.005            | <.03                           | <.01          |
|         | 1/12/1998              |                    |           |          |       |              |            |        |             |                   |        |       |        |          | l                |                                |               |
|         | 1/23/1998              |                    |           |          |       |              |            |        |             |                   |        |       |        |          |                  |                                |               |
|         | 2/24/1998              |                    |           |          |       |              |            |        |             |                   |        |       |        | ļ        |                  |                                |               |
| • ••    | 3/13/1998<br>3/17/1998 |                    |           |          |       |              |            |        |             |                   |        |       |        | <u> </u> |                  |                                |               |
|         |                        |                    |           |          |       |              |            |        |             |                   |        |       |        |          |                  |                                |               |
|         | 3/17/1998<br>4/3/1998  |                    |           |          |       |              |            |        |             |                   |        | ļ     |        |          |                  |                                |               |
|         | 4/13/1998              |                    |           |          |       |              |            |        |             |                   |        |       | ···    |          |                  | <b> </b>                       |               |
|         | 4/30/1998              |                    |           |          |       |              |            |        |             |                   |        |       |        | ļ        |                  |                                |               |
|         | 5/7/1998               |                    |           |          |       |              |            |        |             |                   |        |       | ļ      |          |                  |                                |               |
|         | 5/18/1998              | <.002              | 41        | 0.013    | <.04  | <.02         | 138        | 0.04   | <.03        | 6.5               |        |       |        |          |                  |                                |               |
|         | 5/18/1998              |                    |           | 0.010    | 5.04  | <.V2         | 136        | 0.04   | <.03        | 6.5               | <.01   | 0.61  | 0.009  |          | 0.029            | <.03                           | 0.05          |
|         | 6/15/1998              |                    |           |          |       |              |            |        |             |                   |        |       |        |          |                  |                                |               |
|         | 6/15/1998              |                    |           |          |       |              |            |        |             |                   |        |       |        |          |                  |                                |               |
|         | 6/30/1998              |                    |           |          |       |              |            |        |             |                   |        |       |        | <u> </u> |                  |                                |               |
|         | 7/21/1998              |                    |           |          |       |              |            |        |             |                   |        |       |        |          |                  | {                              |               |
|         | 8/10/1998              |                    |           |          |       |              |            |        | • • • • • • |                   |        |       |        |          |                  |                                |               |
|         | 9/7/1998               |                    |           |          |       |              |            |        |             |                   |        |       |        |          |                  |                                |               |
|         | 9/25/1998              |                    |           |          |       |              |            |        |             |                   |        |       |        |          |                  |                                |               |
|         | 10/19/1998             |                    |           |          |       |              |            |        |             |                   |        |       |        |          |                  |                                |               |
|         | 11/13/1998             |                    |           |          |       |              |            |        |             |                   |        |       |        |          |                  |                                |               |
|         | 11/17/1998             |                    |           |          |       |              |            |        |             |                   |        |       |        |          |                  |                                |               |
|         | 12/15/1998             |                    |           |          |       |              |            |        |             |                   |        |       |        |          |                  |                                |               |
|         | 12/21/1998             |                    |           |          |       |              |            |        |             |                   |        |       |        |          |                  |                                | [             |
|         | 1/18/1999              | 0.005              | 41        | 0.014    | <.04  | <.01         | 250        | <.03   | <.03        | 6.7               | <.01   | 0.676 | 0.009  |          | <.005            | <.03                           | 0.03          |
|         | 1/27/1999              |                    |           |          |       |              |            |        |             |                   |        |       |        |          |                  |                                |               |
|         | 2/22/1999              | 0.004              | 40        | <.005    | 2.03  | <.01         |            | <.03   | <.03        | 6.5               | <.01   | 0.659 | 0.017  |          | <.005            | <.03                           | 0.03          |
|         | 3/17/1999              | <.002              | 32        | < 005    | 0.85  | <.01         | 170        | <.03   | <.03        | 5.5               | <.01   | 0.483 | 0.017  |          | <.005            | <.03                           | <.01          |
|         | 3/24/1999              |                    |           |          |       |              |            |        |             |                   |        |       |        |          |                  |                                |               |
|         | 4/3/1999               |                    |           |          |       |              |            |        |             |                   |        |       |        |          |                  |                                |               |
|         | 4/20/1999              |                    | 39        | <.005    | 1.1   | <.01         | 217        | <.03   | <.03        | 5.8               | <.01   | 0.643 | 0.024  |          | <.005            | <.03                           | <.01          |
|         | 5/17/1999              | <.002              | 40        | <.005    | 1.38  | <.01         |            | <.03   | <.03        | 6.1               | <.01   | 0.639 | <.005  |          | <.005            | <.03                           | 0.03          |
|         | 6/4/1999               |                    |           |          |       |              |            |        |             |                   |        |       |        |          |                  |                                |               |
|         | 6/8/1999               |                    |           |          |       |              |            |        |             |                   |        |       |        |          |                  |                                |               |
|         | 7/3/1999               | <.002              | 31        | <.005    | <.04  | <.01         | 189        | <.03   | <.03        | 6.8               | <.01   | 0.539 | <.005  |          | <.005            | <.03                           | <.01          |
|         | 7/27/1999 8/12/1999    | 0.003              | 36        | 0.034    | 0.13  | <.01         | 207        | <.03   | <.005       | 5.7               | <.01   | 0.716 | 0.014  |          | 0.009            | <.03                           | <.01          |
|         | 9/10/1999              | <.002              | 37        | <.005    | <.04  | <.01         | 200        | <.03   | <.005       | 7.9               | <.01   | 0.638 | <.005  |          | 0.023            | <.03                           | 0.05          |
|         | 9/10/1999              |                    |           |          |       |              |            |        |             |                   |        |       |        |          |                  |                                |               |
|         | 10/29/1999             | <.002              | 38        | <.005    | <.04  |              | 201        |        |             |                   |        |       |        |          |                  |                                |               |
|         | 11/22/1999             | 0.017              | 35        | <.005    | <.04  | <.01<br><.01 | 201        | <.03   | <.005       | 5.1               | <.01   | 0.606 | <.005  |          | <.005            | <.03                           | <.01          |
|         | 12/14/1999             | <.002              | 35        | <.005    | <.04  | <.01         | 228<br>182 | <.03   | <.005       | 5.7               | <.01   | 0.575 | 0.006  |          | <.005            | <.03                           | <.01          |
|         | 1/27/2000              | <.002              | 36        | <.005    | 3     | <.01         | 182        | <.03   | <.005       | 4.9               | <.01   | 0.569 | <.005  |          | <.005            | <.03                           | <.01          |
|         | 2/28/2000              | <.002              | 40        | <.005    |       | <.01         | 190        | <.03   | <.005       | 6                 | <.01   | 0.599 | 0.028  |          | <.005            | <.03                           | <.01          |
|         | 3/23/2000              |                    | 25        | <.005    | <1    | <.01         | 196        | <.03   | <.005       | <u>6.8</u><br>7.4 | <.01   | 0.601 | 0.014  |          | <.005            | <.03                           | <.01          |
|         | 4/27/2000              | <.002              | 31        | <.005    | <1    | <.01         | 231        | <.03   | <.005       | 6.2               |        | 0.676 | <.005  |          | <.005            | <.03                           | <.01          |
|         | 5/15/2000              |                    | 37        | <.005    | <1    | <.01         | 102        | <.03   |             | 6.2<br>7.9        | <.01   | 0.578 | 0.026  |          | <.005            | <.03                           | <.01          |
|         | 6/20/2000              |                    |           | <u> </u> |       | <.UI         |            | <.03   | <.005       | 1.9               | <.01   | 0.732 | 0.038  |          | <.005            | <.03                           | <.01          |
|         | 6/20/2000              | <.002              | 35        | 0.015    | 3     | <.01         | 165        | <.03   | <.005       | 6.7               | <.01   | 0,607 | 0.022  |          |                  |                                |               |
|         | 6/26/2000              | <.002              | 37        | 0.015    | <1    | <.01         | 165        | <.03   | <.005       | 5.7               |        |       |        | ]        | <.005            | <.03                           | 0.03          |
| ł       | 7/19/2000              |                    |           | 0.000    | ~1    | ~.01         | - 1/       | N.03   | <u> </u>    | 3.7               | <.01   | 0.569 | 0.019  |          | <.005            | <.03                           | 0.01          |
|         | 7/25/2000              | <.002              | 45        | 0.02     | <1    | <.01         | 219        | <.03   | <.005       | 6.3               | <.01   | 0.734 | 0.010  |          | 0.017            |                                |               |
|         |                        |                    | <u> </u>  |          | ~1    | ~.0I         | 413        | 5.05   | N.005       | 0.3               | 2.01   | 0./36 | 0.018  |          | 0.017            | <.03                           | <.01          |

| Station      | Date             | NO-D       | NA-D  | NI-D                                  | P-D         | PB-D    | 8-D     | SB-D     | SE-D   | SI-D  | SN-D     | SR-D     | TI-D       | TL-D     | V-D    | W-D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | orgivilation of the lot |
|--------------|------------------|------------|-------|---------------------------------------|-------------|---------|---------|----------|--------|-------|----------|----------|------------|----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
|              | CHARMON CONTRACT | GUISH MARK |       |                                       | GEORGENIZEN | FB-D    | 8-D     |          |        | PT-D  | BN-D     | BR-D     | TERMINARIA | ть-в     | V+D    | Contraction of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of | ZN-D                    |
| ha Suatsulas | S. Marian Char   | ng/L       | mg/L  | mg/L                                  | o≣omg/L∕    | ng/L    | mg/L    | mg/L     | ≫ mg/L | mg/L  | mg/L     | mg/L     | mgr/L      | mg/L     | mg/L   | mg/L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | mg/L                    |
|              | 7/28/2000        |            |       |                                       |             |         |         |          |        |       |          |          |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
|              | 8/3/2000         |            |       | ļ                                     |             |         |         |          |        |       |          |          |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
|              | 8/10/2000        |            |       |                                       |             |         |         |          |        |       |          |          |            |          | 1      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
|              | 8/18/2000        |            |       |                                       |             |         |         |          |        |       |          |          |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
|              | 8/24/2000        |            |       |                                       |             |         |         |          |        |       |          |          |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
|              | 8/29/2000        | <.002      | 39    | 0.027                                 | 1           | <.01    | 238     | <.03     | <.005  | 6.6   | <.01     | 0.576    | 0.011      |          | <.005  | <.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.01                    |
|              | 9/8/2000         |            |       | 1                                     |             |         |         |          |        |       |          |          |            |          | · ·    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
|              | 9/12/2000        |            |       |                                       |             |         |         | ļ        |        |       |          |          | [          |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
|              | 9/25/2000        |            | 32    | <0.05                                 | <0.3        | <0.05   | ļ       | <0.2     | <0.2   | 6.32  | <0.03    | 0.483    | <0.01      | <0.2     | <0.03  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.007                   |
|              | 10/19/2000       | <.002      | 41    | <.005                                 | <1          | <.01    | 178     | <.03     | <.005  | 6.7   | <.01     | 0.594    | 0.014      |          | <.005  | <.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.01                    |
|              | 10/28/2000       |            |       |                                       |             |         |         | Į        |        |       |          |          |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
|              | 11/13/2000       |            | 43    | <0.005                                | 0.01        | <0.01   | 215     | <0.03    | <0.005 | 8.6   | <0.01    | 0.657    | <0.005     |          | 0.009  | <0.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.01                    |
|              | 11/18/2000       |            | 41    | <0.05                                 | <0.3        | <0.05   | Į       | <0.2     | <0.2   | 6.94  | <0.03    | 0.683    | <0.01      | <0.2     | <0.03  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.007                   |
|              | 12/14/2000       |            | 37    | <0.05                                 | <0.3        | <0.05   |         | <0.2     | <0.2   | 6.68  | <0.03    | 0.665    | <0.01      | <.03     | <0.03  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.006                   |
|              | 1/13/2001        | 0.009      | 39    | <.005                                 | 10          | 0.03    | 98      | <.03     | <.005  | 6.2   | <.01     | 0.844    | 0.03       |          | <.005  | <.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.01                    |
|              | 2/10/2001        | <.002      | 35    | 0.052                                 | <1          | <.01    | 111     | <.03     | <.005  | 6     | <.01     | 0.537    | 0.011      |          | <.005  | <.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.01                    |
|              | 3/1/2001         | 4 000      | 41 12 |                                       |             |         |         |          |        |       |          | <u> </u> |            |          |        | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                         |
|              | 3/10/2001        | <.002      | 41.13 | <.005                                 | <1          | <.01    | 212     | <.03     | <.005  | 6.29  | <.01     | 0.67     | <.005      |          | <.005  | <.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.04                    |
|              | 3/15/2001        |            |       |                                       |             |         |         |          |        |       |          |          |            | <u> </u> |        | [                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                         |
|              | 4/5/2001         |            |       |                                       |             |         | ]       |          |        |       |          |          |            |          |        | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                         |
|              | 4/11/2001        |            |       |                                       |             |         |         |          |        |       | <u> </u> |          |            |          |        | ļ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                         |
|              | 4/16/2001        | <.002      | 44    | <.005                                 | <1          | <.01    | 189     | <.03     | <.005  | 6.2   |          |          |            | · · ·    |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
|              | 4/23/2001        | <.002      | 44    | <u> </u>                              | <u> </u>    | <.01    | 189     | <.03     | <.005  | 6.2   | <.01     | 0.677    | 0.011      |          | <.005  | <.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.06                    |
|              | 4/30/2001        |            |       |                                       |             |         | }       |          |        |       |          |          |            | · · · ·  |        | ļ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                         |
|              | 5/8/2001         |            |       |                                       |             |         |         |          |        |       |          | · ··     |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
|              | 5/14/2001        | <.002      | 40    | <.005                                 | <1          | <.01    | 181     | <.03     | <.005  | 5.5   | <.01     | 0.605    | <.005      |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
|              | 5/23/2001        | <u> </u>   |       |                                       | <b>``</b>   | <u></u> | <u></u> | <u> </u> | <.005  | 3.5   | <.01     | 0.605    | <.005      |          | <.005  | <.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.01                    |
|              | 5/30/2001        |            |       |                                       |             |         |         |          |        |       |          |          |            |          |        | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                         |
|              | 6/8/2001         |            |       | · · · · · · · · · · · · · · · · · · · |             |         |         |          |        |       |          |          |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
|              | 6/14/2001        |            |       |                                       |             |         |         |          |        |       |          |          |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
|              | 6/17/2001        | <.002      | 39    | 0.058                                 | <1          | <.01    | 194     | <.03     | <.005  | 7     | <.01     | 0.625    | 0.008      |          | <.005  | <.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.01                    |
|              | 6/21/2001        |            |       |                                       |             |         |         |          |        |       |          | 0.020    | 0.000      |          | ~.005  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u></u>                 |
|              | 6/29/2001        |            |       |                                       |             |         |         |          |        |       |          |          |            |          |        | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                         |
|              | 7/14/2001        | <.002      | 34    | 0.017                                 | <1          | <.01    | 165     | <.03     | <.005  | 8.5   | <.01     | 0.574    | <.005      |          | <.005  | <.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.02                    |
|              | 8/14/2001        | <0.002     | 43    | 0.018                                 | <1          | <0.01   | 203     | <0.03    | 0.006  | 8.7   | 0.04     | 0.675    | 0.015      | [        | <0.005 | <0.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <0.01                   |
|              | 9/12/2001        |            |       |                                       |             |         |         |          |        |       |          |          |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
|              | 9/17/2001        | <0.002     | 40    | 0.017                                 | <1          | <0.01   | 200     | <0.03    | <0.005 | 8.8   | <0.01    | 0.655    | <0.005     |          | <0.005 | <0.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <0.01                   |
|              | 9/24/2001        |            |       |                                       |             |         |         |          |        | · · · | 1        |          |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
| [            | 10/15/2001       | <0.002     | 42    | 0.016                                 | <1          | <0.01   | 221     | 0.04     | <0.005 | 8.6   | <0.01    | 0.708    | <0.005     |          | <0.005 | <0.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.03                    |
|              | 11/13/2001       | <0.002     | 43    | <0.005                                | 0.01        | <0.01   | 215     | <0.03    | <0.005 | 8.5   | <0.01    | 0.657    | <0.005     |          | 0.009  | <0.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.01                    |
|              | 12/8/2001        |            |       |                                       |             |         |         |          |        |       |          |          |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
|              | 12/14/2001       |            |       |                                       |             |         |         |          |        |       |          |          |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
|              | 12/15/2001       | 0.003      | 35    | 0.013                                 | <0.01       | <0.01   | 186     | <0.03    | <0.005 | 8.2   | <0.01    | 0.609    | 0.006      |          | <0.005 | <0.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <0.01                   |
|              | 12/20/2001       |            |       |                                       |             |         | l       |          |        |       |          |          |            |          |        | I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                         |
|              | 12/28/2001       |            |       |                                       |             |         |         |          |        |       |          |          |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
| ļ            | 1/15/2002        |            | 39    | 0.013                                 | <0.01       | <0.01   | 190     | <0.03    | <0.005 | 8.9   | 0.04     | 0.635    | <0.005     |          | <0.005 | <0.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.01                    |
|              | 2/12/2002        | 0.003      | 36    | 0.014                                 | <0.01       | <0.01   | 137     | <0.03    | <0.005 | 7.7   | 0.03     | 0.534    | <0.005     |          | <0.005 | <0.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.02                    |
|              | 3/12/2002        | 0.004      | 39    | 0.012                                 | <0.01       | <0.01   | 177     | <0.03    | <0.005 | 8.9   | <0.01    | 0.649    | <0.005     |          | <0.005 | <0.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <0.01                   |
|              | 4/15/2002        |            | 39    | 0.017                                 | <0.01       | <0.01   | 194     | <0.03    | <0.005 | 8.5   | 0.03     | 0.621    | <0.005     |          | <0.005 | 0.04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <0.01                   |
|              | 5/13/2002        | 0.01       | 39    | 0.014                                 | <0.01       | <0.01   | 222     | 0.05     | <0.005 | 8.6   | 0.05     | 0.669    | <0.005     |          | <0.005 | <0.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <0.01                   |
|              | 6/16/2002        |            |       |                                       |             |         |         |          |        | L     |          |          |            | ļ        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
|              | 6/16/2002        | 0.002      | 34.7  | 0.01                                  | <0.01       | 0.009   | 186     | 0.003    | <0.005 |       | 0.007    | 0.563    | <0.001     |          | <0.001 | <0.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <0.001                  |
|              | 7/16/2002        |            |       |                                       |             |         |         |          |        |       |          |          |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
|              | 7/16/2002        | 0.009      | 33.8  | 0.015                                 | 0.02        | <0.002  | 226.3   | 0.034    | <0.005 | 99    | <0.002   | 0.642    | <0.001     |          | 0.001  | <0.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.002                   |
|              | 8/12/2002        |            |       |                                       |             |         |         |          |        | L     |          |          |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
|              | 8/12/2002        | <0.001     | 38.9  | 0.01                                  | <0.01       | <0.002  | 223.8   | 0.007    | <0.005 | 8.1   | <0.002   | 0.672    | <0.001     |          | 0.002  | <0.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.023                   |
|              | 9/5/2002         |            |       |                                       |             |         |         | ļ        |        |       |          |          |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
|              | 9/5/2002         |            |       |                                       |             |         |         |          |        |       |          |          |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
| ·            | 9/12/2002        |            |       |                                       |             |         |         |          |        |       |          |          |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
|              | 9/12/2002        |            |       |                                       |             |         |         |          |        |       |          |          |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
|              | 9/16/2002        |            |       |                                       |             |         |         |          | ł      |       |          |          |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
|              | 9/16/2002        | 0.005      | 37.5  | 0.016                                 | <0.01       | <0.002  | 214.4   | 0.006    | <0.005 | 8.8   | <0.002   | 0.641    | <0.001     |          | 0.002  | <0.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.014                   |

| Station Date           | <u>д-ом</u> | NA-D                   | NI-D     | P-D                                   | PB-D           | 8-D        | BB-D   | SE-D                                  | SI-D         | SN-D      | BR-D                 | TI-D           | TL-D                                  | V-D    |                                       | ZN-D         |
|------------------------|-------------|------------------------|----------|---------------------------------------|----------------|------------|--------|---------------------------------------|--------------|-----------|----------------------|----------------|---------------------------------------|--------|---------------------------------------|--------------|
| SCALICA DACE           | <u>U-OM</u> | NA-D                   | WT-D     | Sector S-D large                      | PB-D           | <u>8-D</u> | 88-D   | BE-D                                  | 9T-D         | DN-D      | BU-D                 | TI-D           | 10-10-D                               | V-D 22 | <u> </u>                              | <u></u>      |
| Verservergen markenser | mg/L        | mg/L                   | mg/L     | ng/L                                  | mg/L           | mg/15      | mg/L   | mg/L                                  | ng/L         | mg/L      | mg/L                 | mg/L           | mg/L                                  | mg/L   | mg/L                                  | mg/L         |
| 9/27/200               |             | 2007-11 <b>2-11</b> -2 | 105/14   | 00000 <b>1000712</b> 00               | CONCINCTION DO |            |        |                                       | Sec. 16 / 11 | ANJ / U / | 100 100 100 F AI 100 | <b>IIQ ( 1</b> | 2000 <b>1000 7 10</b> 20              | 1      | Same tof A D s                        | <u></u>      |
| 9/27/200               |             |                        |          |                                       |                |            |        |                                       |              |           |                      |                |                                       |        |                                       |              |
| 9/29/200               |             |                        |          |                                       |                |            |        |                                       |              |           |                      |                |                                       |        |                                       |              |
| 10/3/200               |             |                        |          |                                       |                |            |        |                                       |              |           |                      |                |                                       |        |                                       |              |
| 10/3/200               |             |                        |          |                                       |                |            |        |                                       |              |           |                      |                |                                       |        |                                       |              |
| 10/12/200              |             |                        |          | h                                     |                |            |        |                                       |              |           |                      |                | · · · · · · · · · · · · · · · · · · · |        |                                       |              |
| 10/12/200              |             |                        |          |                                       | ·              |            |        |                                       |              |           |                      |                |                                       |        |                                       |              |
| 10/15/200              |             |                        |          | ·                                     |                |            |        |                                       |              |           |                      |                | <u> </u>                              |        |                                       |              |
|                        | 0.002       | 37.1                   | 0.011    | <0.01                                 | 0.004          | 172.7      | 0.006  | <0.005                                | 8.2          | <0.002    | 0.575                | <0.001         |                                       | 0.002  | <0.03                                 | 0.024        |
| 10/21/200              |             |                        | 0.011    |                                       | 0.004          |            | 0.000  |                                       | <u> </u>     |           |                      |                |                                       | 0.002  |                                       | 0.020        |
| 10/21/20               |             | [                      | {        | {                                     |                |            |        |                                       |              | <u> </u>  | {                    | <u> </u>       |                                       | ļ      |                                       | {            |
| 10/29/200              |             | <u> </u>               | <u> </u> | <u> </u>                              |                |            |        |                                       |              |           |                      |                |                                       |        |                                       |              |
| 10/29/200              |             |                        |          | <u> </u>                              |                |            |        | · · · · · · · · · · · · · · · · · · · |              |           | ·                    |                | ·}                                    |        |                                       |              |
| 11/5/201               |             |                        |          |                                       | <b> -</b>      |            |        |                                       |              |           |                      |                |                                       |        |                                       |              |
| 11/12/200              |             |                        |          |                                       |                |            |        |                                       |              |           |                      |                | <u> </u>                              |        | · · · · · · · · · · · · · · · · · · · |              |
| 11/12/200              |             | 40.1                   | 0,013    | <0.01                                 |                | 224.7      | <0.002 | <0.005                                | 8.6          | 0.011     | 0.686                | <0.001         |                                       | 0.000  |                                       |              |
| 11/12/20               |             | 40.1                   | 0.013    | <u> &lt;0.01</u>                      | <0.002         | 424.1      | <0.002 | <0.005                                | 8.0          | 0.011     | 0.686                | <0.001         |                                       | 0.002  | <0.03                                 | 0.003        |
|                        |             |                        |          |                                       |                |            |        |                                       |              |           |                      |                | <u> </u>                              |        | 1                                     |              |
| 11/26/200              |             | <u> </u>               | <u> </u> |                                       |                |            |        |                                       |              |           | <u> </u>             | <u> </u>       |                                       |        |                                       |              |
| 12/3/200               |             |                        |          | <u>}</u>                              |                |            |        |                                       |              | <u> </u>  |                      | ·····          |                                       |        |                                       |              |
|                        |             | <u> </u>               |          |                                       |                |            |        |                                       |              |           |                      |                |                                       |        |                                       |              |
| 12/10/20               |             | 36.4                   | 0.017    | <0.01                                 | 0.009          | 221.1      | <0.002 | <0.005                                | 9.7          | 0.004     | 0.645                | <0.001         |                                       | <0.001 | <0.03                                 | 0.022        |
| 12/15/20               |             |                        | <u> </u> | <u> </u>                              | <u> </u>       |            | 1      |                                       |              | ļ         |                      | <b> </b>       |                                       |        | l                                     |              |
| 12/17/20               |             |                        | · ·····  | · · · · · · · · · · · · · · · · · · · |                |            |        |                                       |              |           |                      | ļ              | ·[                                    |        |                                       |              |
| 12/24/20               |             |                        |          |                                       |                |            |        |                                       |              |           |                      |                |                                       |        |                                       |              |
| 12/31/200              | 02          |                        |          |                                       |                |            |        |                                       | L            |           |                      | ļ              |                                       |        | <u> </u>                              |              |
| X14                    |             | <u>}</u>               | <u> </u> | <u>}</u>                              | <u> </u>       | }          |        | <u> </u>                              | ļ            | <u> </u>  | <b> </b>             | <u> </u>       | <u> </u> _                            |        | }                                     |              |
| 1/12/19                |             |                        |          | ļ                                     |                | <u> </u>   |        |                                       |              |           |                      |                |                                       |        |                                       |              |
| 2/24/19                |             |                        |          | [                                     | Į,             |            | [      |                                       |              |           |                      |                |                                       | Į      |                                       |              |
| 3/17/19                |             | ļ                      |          |                                       |                |            |        |                                       |              |           |                      | <u> </u>       |                                       |        |                                       |              |
| 4/13/19                |             |                        |          |                                       |                |            |        |                                       |              |           |                      | ļ              | <u> </u>                              | Ļ      | ļ                                     |              |
| 4/16/19                |             | ]                      | <u> </u> | <u> </u>                              |                | <u> </u>   |        | ]                                     | L            |           | ]                    | <u> </u>       | <u> </u> _                            |        | <u> </u>                              |              |
| 4/22/19                |             |                        |          | ļ                                     |                | ļ          |        |                                       |              |           | <u> </u>             | ļ              |                                       |        | ļ                                     |              |
| 4/24/19                |             | ļ                      |          | <u> </u>                              |                |            |        |                                       |              |           | ļ                    | ļ              |                                       |        | ļ                                     |              |
| 4/26/19                |             |                        | <u> </u> | <u> </u>                              |                |            |        |                                       |              |           |                      |                |                                       |        |                                       |              |
| 4/30/19                | 98          |                        |          | <u> </u>                              |                |            |        |                                       |              |           |                      |                |                                       | l      | <u> </u>                              |              |
| 5/18/19                | 98          | i                      | 1        |                                       | 1              |            | 1      | <u> </u>                              | <u> </u>     | <u> </u>  | <u> </u>             | \              | ۱ <u> </u>                            |        | 1                                     |              |
| 6/15/19                | 98          |                        |          |                                       |                |            |        |                                       |              |           |                      | <u> </u>       |                                       |        | 1                                     |              |
| 6/19/19                | 98          |                        |          |                                       |                |            |        | l                                     | I            |           |                      | L              |                                       | l      |                                       |              |
| 6/20/19                | 98          |                        |          |                                       |                |            |        | [                                     |              | L         |                      |                |                                       |        |                                       |              |
| 6/21/19                | 98          |                        |          |                                       |                |            |        | L                                     | L            | 1         |                      |                |                                       |        |                                       |              |
| 6/21/19                | 98          |                        | ·        |                                       | )              | <u> </u>   | 1      |                                       |              | <u>ا</u>  | \                    | \              | <u> </u>                              |        | }                                     |              |
| 7/21/19                | 98          |                        |          |                                       |                |            |        |                                       |              |           |                      |                |                                       |        |                                       |              |
| 8/4/19                 | 98          | 1                      |          | 1                                     |                |            |        |                                       |              |           |                      |                |                                       |        |                                       |              |
| 8/10/19                |             |                        |          |                                       |                |            |        |                                       | L            |           |                      | l              |                                       |        |                                       | 0.02         |
| 9/25/19                | 98          |                        |          |                                       |                |            |        |                                       | L            | <u> </u>  |                      |                |                                       |        |                                       |              |
| 10/19/19               |             | 8                      | 0.011    | <.04                                  | <.02           | 25.2       | <.03   | <.03                                  | 2.9          | <.01      | 0.224                | <.005          | -l                                    | 0.006  | <.03                                  | 0.07         |
| 11/17/19               | 98          |                        |          |                                       |                |            |        | L                                     |              |           |                      | L              |                                       |        |                                       |              |
| 12/21/19               | 98 <.002    | 13                     | 0.012    | 0.44                                  | <.01           | 72         | 0.03   | <.03                                  | 4            | <.01      | 0.31                 | 0.005          |                                       | 0.04   | <.03                                  | <.01         |
| 1/18/19                |             | 17                     | <.005    | <.04                                  | <.01           | 94         | <.03   | <.03                                  | 4.9          | <.01      | 0.37                 | <.005          |                                       | <.005  | <.03                                  | 0.02         |
| 2/22/19                |             | 20                     | <.005    | 1.38                                  | <.01           |            | <.03   | <.03                                  | 4.9          | <.01      | 0.442                | 0.011          |                                       | <.005  | <.03                                  | <.01         |
| 3/17/19                |             | 17                     | <.005    | 0.73                                  | <.01           | 95         | <.03   | <.03                                  | 4.4          | <.01      | 0.332                | <.005          |                                       | <.005  | <.03                                  | <.01         |
| 4/20/19                |             | 13                     | <.005    | 1.44                                  | <.01           | 67         | <.03   | <.03                                  | 3.9          | <.01      | 0.309                | 0.012          |                                       | 0.009  | <.03                                  | <.01         |
| 5/17/19                |             | 2                      | 0.007    | <.04                                  | <.01           |            | <.03   | <.03                                  | 0.7          | <.01      | 0.067                | <.005          |                                       | 0.014  | <.03                                  | 0.03         |
| 6/25/19                |             |                        |          |                                       |                |            |        |                                       |              |           |                      |                |                                       |        | 1                                     |              |
| 7/3/19                 |             | 2                      | <.005    | <.04                                  | <.01           | 13         | <.03   | <.03                                  | 3.3          | <.01      | 0.042                | <.005          | 1                                     | <.005  | <.03                                  | <.01         |
| 7/27/19                |             | 2                      | 0.008    | <.04                                  | <.01           | 13         | <.03   | <.005                                 | 3.2          | <.01      | 0.118                | 0.013          | 1                                     | 0.011  | <.03                                  | 0.02         |
| 7/29/19                |             | <u> </u>               |          | · · · · · · · · · · · · · · · · · · · |                | <u> </u>   |        |                                       | <u></u>      |           |                      |                | T                                     | l      |                                       |              |
| 8/12/19                |             | 9                      | 0.013    | <.04                                  | 0.04           | 45         | <.03   | <.005                                 | 4.8          | <.01      | 0.208                | 0.008          | 1                                     | 0.021  | <.03                                  | 0.02         |
| 8/31/19                |             |                        | 0.010    |                                       | 1 0.04         | 1 1        |        |                                       | <u> </u>     |           |                      | 1              | 1                                     |        | 1                                     | <b>~~~~~</b> |
| 9/10/19                |             | 7                      | <.005    | 0.55                                  | <.01           | 45         | <.03   | <.005                                 | 3.1          | <.01      | 0.175                | <.005          |                                       | <.005  | <.03                                  | <.01         |
|                        |             | 6                      | <.005    | <.04                                  | <.01           | 25         | <.03   | <.005                                 | 3.5          | <.01      | 0.199                | <.005          |                                       | <.005  | <.03                                  | <.01         |
| 10/29/19               |             | 6                      | <.005    | 0.36                                  | 0.02           | 35         | <.03   | <.005                                 | 3.4          | <.01      | 0.199                | <.005          | 1                                     | <.005  | <.03                                  | <.01         |
| 1 11/44/19             |             |                        |          |                                       |                |            |        | <.005                                 | 3.5          | <.01      | 0.108                | <.005          |                                       | 0.011  | <.03                                  | 0.01         |
| 12/14/19               | 99 <.002    | 7                      | 0.008    | <.04                                  | <.01           | 38         | <.03   |                                       |              |           |                      |                |                                       |        |                                       |              |

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| Station | Date                        | <b>д-ож</b>    | 🦇 NA-D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | NI-D     | P-D    | PB-D            | 8-D  | g8-02              | SE-D    | gr-D              | BN-D   | BR-D  | a-IT   | TL-D            | V-D        | N-D   | ZN-D  |
|---------|-----------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|-----------------|------|--------------------|---------|-------------------|--------|-------|--------|-----------------|------------|-------|-------|
|         |                             | 2.439000300056 | Will States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and State | 不同的情况的问题 | 潮的感觉感觉 | <u>karrenar</u> |      | 7.058 N.B.S. 1959. | 建设的影响影响 | 16650000000000000 |        |       |        | San Share Share | ROM WEIGHT |       |       |
|         | NO MINIMARY AND A PROVIDENT | πg/L           | mg/L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ng/u     | ng/L   | mg/L            | mg/L | mg/L∕              | mgr/L   | mg/L              | Somq7L | mg/L  | mg/L   | mg/L            | mg/L       | mg/L  | mg/L/ |
| L       | 1/27/2000                   | <.002          | 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <.005    | <1     | <.01            | 69   | <.03               | <.005   | 4.1               | <.01   | 0.278 | 0.009  |                 | 0.006      | <.03  | <.01  |
|         | 2/28/2000                   |                | 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <.005    | <1     | <.01            | 60   | <.03               | <.005   | 5.4               | <.01   | 0.292 | <.005  |                 | <.005      | <.03  | <.01  |
| L       | 3/23/2000                   |                | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <.005    | <1     | <.01            | 62   | <.03               | <.005   | 6                 | <.01   | 0.368 | <.005  |                 | <.005      | <.03  | <.01  |
|         | 4/27/2000                   |                | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | < 005    | <1     | <.01            | 108  | <.03               | <.005   | 4.5               | <.01   | 0.289 | 0.016  |                 | 0.006      | <.03  | <.01  |
|         | 5/15/2000                   |                | <1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <.005    | <1     | <.01            |      | <.03               | <.005   | 3.4               | <.01   | 0.145 | <.005  |                 | <.005      | <.03  | <.01  |
|         | 6/26/2000                   |                | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <.005    | 3      | <.01            | 28   | <.03               | <.005   | 2.5               | <.01   | 0.112 | <.005  |                 | <.005      | <.03  | 0.03  |
|         | 7/25/2000                   | <.002          | . 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.011    | <1     | <.01            | 51   | <.03               | <.005   | 2.8               | <.01   | 0.251 | 0.005  |                 | 0.027      | <.03  | <.01  |
|         | 8/29/2000                   |                | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.011    | 1      | <.01            | 22   | <.03               | <.005   | 4                 | <.01   | 0.114 | <.005  |                 | <.005      | <.03  | <.01  |
|         | 9/25/2000                   | <0.01          | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <0.05    | <0.3   | <0.05           |      | <0.2               | <0.2    | 4.52              | <0.03  | 0.125 | <0.01  | <0.2            | <0.03      |       | 0.007 |
|         | 10/28/2002                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |        |                 |      |                    |         |                   |        |       |        | 1               | 1          |       |       |
|         | 10/29/2000                  |                | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <.005    | <1     | <.01            | 23   | <.03               | <.005   | 5                 | <.01   | 0.142 | <.005  |                 | <.005      | <.03  | <.01  |
| ļ       | 11/13/2000                  | <0.002         | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <0.005   | 0.08   | <0.01           | 28   | 0.06               | 0.013   | 5.4               | 0.16   | 0.228 | <0.005 |                 | 0.006      | <0.03 | <0.01 |
| L       | 11/18/2000                  | <0.01          | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <0.05    | <0.3   | <0.05           |      | <0.2               | <0.2    | 5.12              | <0.03  | 0.246 | <0.01  | <0.2            | <0.03      |       | 0.081 |
|         | 12/14/2000                  | <0.01          | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <0.05    | <0.3   | <0.05           |      | <0.2               | <0.2    | 5.46              | <0.03  | 0.265 | <0.01  | <0.2            | <0.03      | 1     | 0.039 |
|         | 1/13/2001                   | <.002          | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <.005    | <1     | 0.08            | 37   | <.03               | <.005   | 5.7               | <.01   | 0.38  | <.005  |                 | 0.022      | <.03  | 0.03  |
|         | 2/10/2001                   | <.002          | 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <.005    | <1     | <.01            | 47   | <.03               | <.005   | 4.2               | <.01   | 0.222 | <.005  |                 | <.005      | <.03  | 0.09  |
|         | 3/10/2001                   | <.002          | 13.61                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <.005    | <1     | <.01            | 50.9 | <.03               | <.005   | 5.15              | <.01   | 0.32  | <.005  |                 | <.005      | <.03  | <.01  |
|         | 4/16/2001                   | <.002          | 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <.005    | <1     | <.01            | 55   | <.03               | <.005   | 5.6               | <.01   | 0.342 | <.005  |                 | <.005      | <.03  | <.01  |
|         | 5/14/2001                   | <.002          | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <.005    | <1     | <.01            | 43   | <.03               | <.005   | 3.3               | <.01   | 0.244 | <.005  |                 | <.005      | <.03  | 0.02  |
|         | 6/17/2001                   | <.002          | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <.005    | <1     | <.01            | 6    | <.03               | <.005   | 1.1               | <.01   | 0.08  | <.005  |                 | <.005      | <.03  | <.01  |
|         | 7/14/2001                   | <.002          | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <.005    | <1     | <.01            | 19   | <.03               | <.005   | 4.7               | <.01   | 0.157 | <.005  |                 | <.005      | <.03  | <.01  |
|         | 8/14/2001                   | <0.002         | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <0.005   | <1     | <0.01           | 46   | <0.03              | <0.005  | 5.1               | <0.01  | 0.263 | <0.005 |                 | <0.005     | <0.03 | <0.01 |
|         | 9/17/2001                   | <0.002         | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <0.005   | <1     | <0.01           | 28   | <0.03              | <0.005  | 4.7               | <0.01  | 0.209 | <0.005 |                 | <0.005     | <0.03 | <0.01 |
|         | 10/15/2001                  | <0.002         | 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <0.005   | <1     | <0.01           | 96   | <0.03              | <0.005  | 4.5               | <0.01  | 0.341 | <0.005 |                 | <0.005     | <0.03 | <0.01 |
|         | 11/13/2001                  | <0.002         | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <0.005   | 0.08   | <0.01           | 28   | 0.06               | 0.013   | 5.4               | 0.16   | 0.228 | <0.005 |                 | 0.006      | <0.03 | <0.01 |
|         | 12/14/2001                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |        |                 |      |                    |         |                   |        |       |        |                 |            |       |       |
|         | 12/15/2001                  | <0.002         | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <0.005   | <0.01  | <0.01           | 80   | <0.03              | <0.005  | 4.7               | <0.01  | 0.33  | <0.005 |                 | 0.009      | <0.03 | 0.03  |
|         | 1/15/2002                   | <0.002         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <0.005   | <0.01  | <0.01           | 27   | <0.03              | <0.005  | 5.8               | 0.01   | 0.253 | <0.005 |                 | <0.005     | <0.03 | 0.02  |
|         | 2/12/2002                   | <0.002         | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <0.005   | 0.02   | <0.01           | 25   | <0.03              | <0.005  | 5.4               | <0.01  | 0.253 | <0.005 |                 | <0.005     | <0.03 | 0.04  |
|         | 3/12/2002                   | 0.005          | 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <0.005   | 0.04   | <0.01           | 63   | <0.03              | <0.005  | 6.8               | <0.01  | 0.388 | <0.005 |                 | <0.005     | <0.03 | 0.04  |
|         | 4/15/2002                   | <0.002         | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.005    | <0.01  | <0.01           | 70   | <0.03              | <0.005  | 6.3               | 0.04   | 0.376 | <0.005 |                 | <0.005     | <0.03 | 0.03  |
|         | 5/13/2002                   | 0.003          | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.007    | 0.04   | <0.01           | 14   | <0.03              | <0.005  | 3.9               | <0.01  | 0.139 | <0.005 |                 | <0.005     | <0.03 | 0.06  |
|         | 6/16/2002                   | 0.004          | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <0.001   | 0.08   | 0.008           | 9.5  | 0.004              | <0.005  | 3.8               | <0.002 | 0.108 | <0.001 |                 | <0.001     | <0.03 | 0.025 |
|         | 7/16/2002                   | 0.001          | 7.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.008    | <0.01  | <0.002          | 56.2 | 0.003              | <0.005  | 4.1               | <0.002 | 0.23  | <0.001 |                 | <0.001     | <0.03 | 0.025 |
|         | 8/12/2002                   | <0.001         | 5.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.005    | 0.02   | 0.009           | 14.2 | 0.003              | <0.005  | 3.7               | 0.006  | 0.149 | <0.001 |                 | <0.001     | <0.03 | 0.018 |
|         | 9/16/2002                   | 0.002          | б                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.003    | <0.01  | <0.002          | 39   | <0.002             | <0.005  | 4.4               | 0.003  | 0.195 | 0.002  |                 | <0.001     | <0.03 | 0.101 |
|         | 10/15/2002                  | <0.001         | 5.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.003    | <0.01  | 0.007           | 13.7 | 0.003              | <0.005  | 4.9               | <0.002 | 0.165 | <0.001 |                 | <0.001     | <0.03 | 0.032 |
|         | 11/11/2002                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |        |                 |      |                    |         |                   |        |       |        |                 |            |       |       |
|         | 11/12/2002                  | 0.001          | 5.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <0.001   | <0.01  | 0.012           | 20.5 | <0.002             | <0.005  | 5.3               | 0.008  | 0.213 | <0.001 |                 | 0.003      | <0.03 | 0.04  |
|         | 12/10/2002                  | 0.002          | 5.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.006    | <0.01  | 0.007           | 30   | <0.002             | <0.005  | 5.9               | <0.002 | 0.234 | <0.001 |                 | <0.001     | <0.03 | 0.057 |

Vangorda Plateau Site - Select Surface Water Quality Listing, 1998 to 2002, Physical Parameters

| vangor | 1400 marks and a second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s | and an amount of the shaft |       | 1. aprentice of the State of th |                 |                |            |         |                           |              | a Marine Manager and an Alfred Marine |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------|------------|---------|---------------------------|--------------|---------------------------------------|
| Statio | n Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ALK-T                      | FLOW  | COND CN-T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | EARD-T          | NH3-N          | S04-T      | TSS     | TEMP-C                    | PH-F         | PH-Lab                                |
|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | mg/L                       | L/s   | μS/cma mog/L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (CACO3)<br>mg/L | mg/L           | mg/L       | mg/L    |                           | pH unit      | pH unit                               |
| V1     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |                |            |         | 992,973,989,266,278,0239, |              |                                       |
|        | 18/05/98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 23              | <0.05          | 24         | 1       |                           | 7.6          |                                       |
|        | 30/05/98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            | 1426  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |                |            |         |                           |              |                                       |
|        | 9/6/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            | 580   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 205             | -0.05          |            |         |                           | 3.6          |                                       |
|        | 30/06/98<br>14/09/98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 325<br>29       | <0.05<br><0.05 | 17<br>10   | <1<br>2 | 3                         | 7.6<br>7.88  |                                       |
|        | 31/12/98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 58              | <0.05          | 13         | 1       | 5                         | 7.16         |                                       |
|        | 17/03/99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       | 124                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 56              | <0.05          | 13         | 3       |                           | 7.12         |                                       |
|        | 18/06/99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 10              | <0.05          | 3          | 2       | 7                         | 8.08         |                                       |
|        | 29/07/99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2                          | 534   | 35.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 9               | <0.05          | 6          | 1       | 3                         | 7.44         |                                       |
|        | 31/08/99<br>12/10/1999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 26                         | 293   | 55.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 22<br>17        | <0.05<br><0.05 | 7<br>10    | 1<br>1  | 3.9<br>1                  | 7.7<br>6.75  |                                       |
|        | 20/06/00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 12              | <0.05          | 4          | 1       | T                         | 0.75         |                                       |
|        | 9/8/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            | 663.5 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |                | -          | -       | 5.9                       | 7.13         |                                       |
|        | 12/9/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |       | 73                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 21              |                | 10         | 2       | 7.6                       | 8.05         |                                       |
|        | 5/3/2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       | 116                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 65              |                | 16         | <1      | 1                         | 8.4          |                                       |
|        | 13/06/01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       | 126                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 12              |                | 3          | 5       | 3                         | 8.6          |                                       |
|        | 21/03/02<br>25/06/02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                            |       | 116                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 66              |                | 13<br>5    | 2       |                           |              |                                       |
|        | 25/06/02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       | 52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 22              |                | 2          | <1      |                           |              |                                       |
|        | 27/09/02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |                | 9          |         |                           |              |                                       |
|        | 27/09/02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       | 72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 33              |                |            | 2       | 3.3                       | 8.3          |                                       |
|        | 14/12/02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |                | 10         |         | 0.6                       | 8.2          |                                       |
|        | 15/12/02<br>15/12/02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                            |       | 111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 51              |                | 12         | 3       |                           |              |                                       |
| V2     | 15/12/02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       | 111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 51              |                |            | 5       |                           |              |                                       |
| •      | 12/1/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            | 1.5   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 | 0.12           | 82         | 9       |                           | 7.8          |                                       |
|        | 17/03/98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            | 1.5   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 | <0.05          | 28         | 9       |                           | 7.45         |                                       |
|        | 18/05/98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            | 4     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 | <0.05          | 234        | 1       |                           | 7.7          |                                       |
|        | 29/06/98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            | 2     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 | <0.05          | 115<br>125 | 1<br>2  |                           | 7.1          | 8.09                                  |
|        | 14/09/98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            | 2     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 | <0.05<br>0.05  | 125        | 12      |                           | 7.22         | 8.09                                  |
|        | 31/12/98<br>17/03/99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                            |       | 945                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 | <0.05          | 202        | 11      |                           | 7.67         |                                       |
|        | 18/06/99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            | 1     | 240                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 | <0.05          | 180        | 8       | 6                         | 7.64         |                                       |
|        | 10/9/1999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            | 1     | 810                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 | <0.05          | 169        | 5       | 5                         | 7.76         |                                       |
|        | 12/10/1999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            | 1.5   | 775                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 | <0.05          | 191        | 4       | 2                         | 6.95         |                                       |
|        | 13/12/99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            | 0.5   | 800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 | <0.05          | 146        | 6       | 0                         | 7.06         |                                       |
|        | 22/03/00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            | 0.5   | 820                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 | <0.05          | 183<br>571 | 10      |                           |              | 7.76                                  |
|        | 20/06/00<br>12/9/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |       | 460<br>1435                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 | <0.05<br><0.05 | 638        | 1<br>7  | 7.8                       | 8.23         |                                       |
|        | 12/11/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |       | 1455                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 | <0.05          | 543        | 7       | -0.6                      | 8            |                                       |
|        | 5/3/2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       | 1110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 | <0.05          | 380        | 3       | 1                         | 7.9          |                                       |
|        | 13/06/01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 | <0.05          | 849        | 5       |                           |              |                                       |
|        | 8/9/2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       | 1550                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 951             | <0.05          | 643        | 58      | 3.1                       | 8.2          |                                       |
|        | 12/11/2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |       | 1475                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 887             | <0.05<br><0.05 | 543<br>564 | 7<br>11 | -0.6                      | 8            |                                       |
|        | 15/01/02<br>12/2/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |       | 1550                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 007             | <0.05          | 527        | 10      |                           |              |                                       |
|        | 21/03/02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       | 1250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 | <0.05          | 488        | 5       |                           |              |                                       |
|        | 15/04/02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       | 1050                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 | <0.05          | 349        | 6       | -0.2                      | 7.8          |                                       |
|        | 13/05/02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       | 1185                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 | <0.05          | 482        | 11      |                           |              |                                       |
|        | 25/06/02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       | 1510                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 | -0.05          | 615        | c       |                           |              |                                       |
|        | 25/06/02<br>27/09/02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                            |       | 1510                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 | <0.05          | 622        | 6       |                           |              |                                       |
|        | 27/09/02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       | 1512                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 | <0.05          |            | 7       | 3.2                       | 8            |                                       |
|        | 14/12/02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |                |            |         | 0.4                       | 7.8          |                                       |
|        | 15/12/02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |                | 620        |         |                           |              |                                       |
|        | 15/12/02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       | 1555                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 | <0.05          |            | 24      |                           |              |                                       |
| V4     | 20/05/00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 | <0.05          | 17         | 2       |                           | 7.02         |                                       |
|        | 29/05/98<br>29/06/98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 355             | <0.05          | 14         | 1       |                           | 7.91         |                                       |
|        | 14/09/98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 370             | <0.05          | 68         | 3       |                           |              | 8.35                                  |
|        | 16/03/99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       | 800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 458             | <0.05          | 134        | 5       |                           |              | 8.17                                  |
|        | 18/06/99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 259             | <0.05          | 40         | 46      | <9                        | 8.06         |                                       |
|        | 29/07/99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            | 64    | 442                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 255<br>322      | <0.05          | 43<br>66   | 10<br>3 | 4.9<br>1                  | 8.42<br>8.09 |                                       |
|        | 12/10/1999<br>25/03/00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 341                        |       | 720                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 322             | <.05           | 105        | 1       | *                         | 0.07         | 7.76                                  |
|        | 20/06/00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ~ ~ ~                      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 239             |                | 39         | 2       |                           |              |                                       |
|        | 12/9/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |       | 448                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 200             |                | 37         | 17      | 3.9                       | 8.04         |                                       |
|        | 7/6/2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |                |            |         | 4.8                       | 8.4          | 7.87                                  |
|        | 25/06/02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       | 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 202             |                | 49         | -       |                           |              |                                       |
|        | 25/06/02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       | 520                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 306             |                | 47         | 6       |                           |              |                                       |
|        | 27/09/02<br>27/09/02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                            |       | 545                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 331             |                |            | 5       | 3.2                       | 8.2          |                                       |
| V5     | 21/03/04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |                |            | -       | -                         |              |                                       |
|        | 13/01/98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 408.1139        | 0.07           | 149        | 9       |                           | 7.91         |                                       |
|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |                |            |         |                           |              |                                       |
|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |                |            |         |                           |              |                                       |

# Vangorda Plateau Site - Select Surface Water Quality Listing, 1998 to 2002, Physical Parameters

| ion Date              | ALK-T | FLOW   | COND CN-T  | HARD-T<br>(CACO3) | NH3-N          | 504-T      | TSS      | TEMP-C       | PH-F         | PH-La  |
|-----------------------|-------|--------|------------|-------------------|----------------|------------|----------|--------------|--------------|--------|
|                       | mg/L  | L/S    | µS/cm mg/L | mg/L              | mg/L           | mg/L       | mg/L     | 50000 (2005) | pH unit      | pH uni |
| 17/03/98              |       |        |            | 591               | <0.05          | 53         | <1       |              | 7.8          |        |
| 14/04/98              |       |        |            | 416<br>176        | <0.05<br><0.05 | 153<br>24  | 4<br>16  |              | 7.7          |        |
| 19/05/98              |       | 152    |            | 1/0               | <0.0J          | 24         | 10       |              | /./          |        |
| 10/6/1998<br>30/06/98 |       | 172    |            | 391               | <0.05          | 98         | 5        |              | 7.62         |        |
| 21/07/98              |       |        |            |                   | <0.05          | 27         | <1       |              | 8.12         |        |
| 11/8/1998             |       |        |            |                   | <0.05          | 105        | 5        |              | 8.01         |        |
| 15/09/98              |       |        |            | 256               | <0.05          | 81         | 8        | 4            | 7.76         |        |
| 19/10/98              |       |        |            | 293               | <0.05          | 88         | 1        |              | 7.92         |        |
| 17/11/98              |       |        |            | 574               | <0.05          | 206        | 2        |              | 7.42         |        |
| 31/12/98              |       |        |            | 971               | <0.05          | 461        | <1       |              | 7.12         |        |
| 19/01/99              |       |        |            | 810               | <0.05          | 435        | 2        |              |              | 8.31   |
| 23/02/99              |       |        |            | 1161              | <0.05          | 532        | 29       | 0            | 7.75         |        |
| 23/03/99              |       |        |            | 602               | <0.05          | 235        | 5        | -            |              | 7.47   |
| 20/04/99              |       |        |            | 498               |                | 208        | 13       | 2            | 8.14         |        |
| 18/05/99              |       |        |            | 126               | <0.05          | 39         | 100      | 2            | 8.04         |        |
| 20/06/99              |       |        |            | 134               | <0.05          | 34         | 731      | 6            | 7.97         |        |
| 29/07/99              | 22    | 364    | 328        | 174               | <0.05          | 49         | 300      | 5.8          | 8.53         |        |
| 31/08/99              | 187   | 144    | 431        | 226               | <0.05          | 6D         | 7<br>5   | 5.9          | 8-6          |        |
| 12/10/1999            |       |        |            | 245               | <0.05          | 79         |          | 2            | 7.09         |        |
| 14/12/99              |       |        |            | 340<br>319        | <0.05          | 105<br>144 | 3<br>7   | 0<br>0       | 7.68<br>7.53 |        |
| 28/02/00              |       |        |            | 319               | <0.05          | 168        | 12       | 3            | 8.18         |        |
| 27/04/00<br>15/05/00  |       |        |            | 164               | -0.05          | 71         | 58       | 5            | 8            |        |
| 20/06/00              |       |        |            | 130               | <0.05          | 34         | 17       | •            | •            |        |
| 25/07/00              |       |        |            | 172               |                | 48         | 33       | 8.9          | 8.17         |        |
| 9/8/2000              |       | 449.45 |            |                   |                |            |          | 6.9          | 8.26         |        |
| 29/08/00              |       |        |            | 153               |                | 42         | 80       | 5            | 8.3          |        |
| 12/9/2000             |       |        | 400        | 173               |                | 55         | 27       | 4.7          | 8.4          |        |
| 26/09/00              |       |        |            | 207               |                | 73         | 251      | 6.2          | 8.04         |        |
| 28/10/00              |       |        |            |                   |                |            |          | 4            | •            |        |
| 29/10/00              |       |        |            | 271               |                | 340        | 11       |              |              |        |
| 13/11/00              |       |        |            | 346               |                | 107        | 10       | -0.4         | 8            |        |
| 18/11/00              |       |        |            | 207               |                | 110        | 4.6      |              |              |        |
| 14/12/00              |       |        |            | 367               |                | 122        | 4.6      |              | 7.98         | • •    |
| 13/01/01              |       |        |            | 340               |                | 257        | 6        |              |              | 8.0    |
| 10/2/2001             |       |        |            | 371               |                | 323        | 10       |              | <u>,</u>     | 7.9    |
| 5/3/2001              |       |        | 360        |                   | <0.05          | 72         | 24       | -0.1         | 8            |        |
| 10/3/2001             |       |        |            | 489               |                | 180        | 2        | -0.2         | 8            |        |
| 16/04/01              |       |        |            | 411               |                | 158<br>61  | 16<br>51 | 0.2<br>2.4   | 8.2<br>8.4   |        |
| 14/05/01              |       |        |            | 218<br>119        |                | 25         | 19       | 5.9          | 8.5          |        |
| 13/06/01              |       |        |            | 121               |                | 28         | 35       | 5.7          | 8.6          |        |
| 17/06/01              |       |        |            | 248               |                | 65         | 34       | 6.8          | 8.5          |        |
| 14/07/01<br>14/08/01  |       |        |            | 478               |                | 72         | 48       | 6.3          | 8.5          |        |
| 8/9/2001              |       |        | 470        | 276               |                | 76         | 3        | 2.9          | 8.5          |        |
| 17/09/01              |       |        |            | 276               |                | 75         | 13       | 5.1          | 8.4          |        |
| 15/10/01              |       |        |            | 339               |                | 101        | 14       | -0.4         | 8.3          |        |
| 13/11/01              |       |        |            | 346               |                | 107        | 10       | -0.4         | 8            |        |
| 14/12/01              |       |        |            | 386               |                | 104        | 4        | ~0.4         | 8.2          |        |
| 15/01/02              |       |        |            | 460               |                | 155        | 3        |              |              |        |
| 12/3/2002             |       |        |            | 622               |                | 211        | 4        |              |              |        |
| 21/03/02              |       |        | 1050       | 685               |                | 266        | 5        |              |              |        |
| 13/05/02              |       |        |            | 170               |                | 43         | 195      |              |              |        |
| 16/06/02              |       |        |            |                   |                | 45         | ~~       |              |              |        |
| 16/06/02              |       |        |            | 178               |                | <u> </u>   | 68       |              |              |        |
| 25/06/02              |       |        | 200        | 222               |                | 62         | 31       |              |              |        |
| 25/06/02              |       |        | 398        | 222               |                | 72         | γL       |              |              |        |
| 16/07/02              |       |        |            | 260               |                | 14         | 23       |              |              |        |
| 16/07/02              |       |        |            | 200               |                | 90         | 20       |              |              |        |
| 12/8/2002             |       |        |            |                   |                |            | 28       |              |              |        |
| 12/8/2002             |       |        |            |                   |                | 62         |          |              |              |        |
| 16/09/02<br>16/09/02  |       |        |            | 241               |                |            | 13       |              |              |        |
| 27/09/02              |       |        |            |                   |                | 68         | -        |              |              |        |
| 27/09/02              |       |        | 450        | 256               |                |            | 14       | 4            | 8.2          |        |
| 15/10/02              |       |        |            | -                 |                | 77         |          |              |              |        |
| 15/10/02              |       |        |            | 289               |                |            | 9        |              |              |        |
| 11/11/2002            |       |        |            |                   |                |            |          | 0.5          | 8.1          |        |
| 12/11/2002            |       |        |            |                   |                | 95         |          |              |              |        |
| 12/11/2002            |       |        |            | 333               |                |            | 13       |              |              |        |
| 10/12/2002            |       |        |            |                   |                | 125        |          |              |              |        |
| 10/12/2002            |       |        |            | 392               |                |            | 15       | -0.2         | 7.9          |        |
| 14/12/02              |       |        |            |                   |                |            |          | 0.4          | 7.7          |        |
|                       |       |        |            |                   |                | 118        |          |              |              |        |

# Vangorda Plateau Site - Select Surface Water Quality Listing, 1998 to 2002, Physical Parameters

|       | on Date                | ALK-T      |      |            |                     |                | -          |          |            |              |              |
|-------|------------------------|------------|------|------------|---------------------|----------------|------------|----------|------------|--------------|--------------|
| DEACL | Da Dace                | ALK-T      | Flow | COND CN-   | T HARD-T<br>(CACO3) | NH3-N          | 804-T      | TSS      | TEMP-C     | PH-F         | PH-Lab       |
|       |                        | mg/L       | L/s  | μS/cma mg/ | L mg/L              | mg/L           | mg/L       | mg/L     |            | pH unit      | pH unit      |
|       | 15/12/02               |            |      | 660        | 358                 |                |            | 9        |            |              |              |
| V6A   | 13/01/98               |            |      |            |                     | <0.05          | 20         | 66       |            | 7.53         |              |
|       | 17/03/98               |            |      |            |                     | <0.05          | 7          | <1       |            | 1.35         |              |
|       | 19/05/98               |            |      |            |                     | <0.05          | 9          | 10       |            | 7.4          |              |
|       | 30/06/98               |            |      |            |                     | <0.05          | 86         | 3        |            | 7.52         |              |
|       | 15/09/98               |            |      |            |                     | <0.05          | 12         | 4        | 4          | 7.98         |              |
|       | 31/12/98<br>22/03/99   |            |      |            |                     | <0.05<br><0.05 | 26<br>46   | 5<br>13  |            | 6.39         | 7 00         |
|       | 3/7/1999               |            |      |            |                     | <0.05          | 10         | 7        | 8          | 8.45         | 7.93         |
|       | 10/9/1999              |            |      | 159        |                     | <0.05          | 14         | 1        | 7          | 7.69         |              |
|       | 12/10/1999             |            |      | 178        |                     | <0.05          | 16         | 1        | 1          | 7.23         |              |
|       | 14/12/99               |            |      | 250        |                     | <0.05          | 21         | 1        | 0          | 7.45         |              |
|       | 23/03/00<br>20/06/00   |            |      | 285<br>79  |                     | <0.05<br><0.05 | 24<br>7    | 2<br>1   | 1          | 7.21         | 7.81         |
|       | 12/9/2000              |            |      | 179        |                     | <0.05          | 34         | 2        | 5.3        | 7.68         |              |
|       | 5/3/2001               | 514.9      |      | 2150       |                     | <0.05          | 990        | 13       | 3          | 8            |              |
|       | 13/06/01               |            |      |            |                     | <0.05          | 10         | 9        | 5.5        | 8.4          |              |
|       | 8/9/2001               |            |      | 205        |                     | <0.05          | 35         | <1       | 3          | 8.5          |              |
|       | 25/06/02<br>25/06/02   |            |      | 138        |                     | <0.05          | 19         | 8        |            |              |              |
|       | 27/09/02               |            |      | 100        |                     | 10.00          | 25         | Ŭ        |            |              |              |
|       | 27/09/02               |            |      | 172        |                     | <0.05          |            | 4        | 4.4        | 8            |              |
|       | 14/12/02               |            |      |            |                     |                |            |          | 0.3        | 7.9          |              |
|       | 15/12/02<br>15/12/02   |            |      | 300        |                     | <0.05          | 50         | 2        |            |              |              |
| V8    | 13/12/02               |            |      | 500        |                     | <0.05          |            | 3        |            |              |              |
|       | 13/01/98               |            |      |            | 328.1499            | <0.05          | 132        | 8        |            | 7.58         |              |
|       | 17/03/98               |            |      |            | 389                 | <0.05          | 46         | <1       |            | 7.59         |              |
|       | 14/04/98               |            |      |            | 345                 | <0.05          | 136        | 4        |            |              |              |
|       | 19/05/98<br>10/6/1998  |            | 594  |            | 102                 | <0.05          | 24         | 13       |            | 7.4          |              |
|       | 30/06/98               |            | 224  |            | 97                  | <0.05          | 86         | 1        |            | 7.78         |              |
|       | 21/07/98               |            |      |            |                     | <0.05          | 27         | <1       |            | 8,18         |              |
|       | 11/8/1998              |            |      |            |                     | <0.05          | 123        | 4        |            | 7.98         |              |
|       | 15/09/98               |            |      |            | 169                 | <0.05          | 48         | 29       | 6          | 7.84         |              |
|       | 19/10/98<br>17/11/98   |            |      |            | 183<br>577          | <0.05<br><0.05 | 62<br>179  | <1<br>2  |            | 7.95         |              |
|       | 31/12/98               |            |      |            | 335                 | <0.05          | 111        | 2        |            | 7.75<br>7.08 |              |
|       | 19/01/99               |            |      |            | 451                 | <0.05          | 190        | 3        |            |              | 8.3          |
|       | 23/02/99               |            |      |            | 462                 | <0.05          | 136        | 5        | 0          | 8.02         |              |
|       | 23/03/99               |            |      |            | 458                 | <0.05          | 238        | 12       |            | <b>A</b> 44  | 7.84         |
|       | 20/04/99<br>18/05/99   |            |      |            | 404<br>116          | <0.05          | 174<br>39  | 7<br>47  | 3<br>1     | 7.48<br>8.16 |              |
|       | 20/06/99               |            |      |            | 37                  | <0.05          | 12         | 184      | 7          | 7.53         |              |
|       | 25/06/99               |            | 1403 |            |                     |                |            |          |            |              |              |
|       | 29/07/99               | 13         | 1101 | 203        | 107                 | <0.05          | 31         | 85       | 7.7        | 8.21         |              |
|       | 30/08/99<br>12/10/1999 | 112<br>144 | 484  | 264<br>380 | 135<br>164          | <0.05<br><0.05 | 36<br>61   | 3<br>5   | 7.3        | 8.5          |              |
|       | 14/12/99               | 190        |      | 505        | 271                 | <0.05          | 85         | 1        | 2<br>0     | 7.38<br>7.78 |              |
|       | 28/02/00               |            |      |            | 289                 | <0.05          | 111        | <1       | 0          | 7.15         |              |
|       | 23/03/00               | 216        |      | 600        | 323                 | <0.05          | 109        | 1        | 1          | 7.48         | 7.76         |
|       | 27/04/00<br>15/05/00   |            |      |            | 278<br>179          | <0.05          | 128        | 3        | 2          | 7.77         |              |
|       | 20/06/00               | 59         |      | 173        | 80                  | <0.05          | 67<br>22   | 1<br>1   | 8          | 7            |              |
|       | 25/07/00               |            |      |            | 109                 |                | 33         | 9        | 10.3       | 8.03         |              |
|       | 29/08/00               |            |      |            | 141                 |                | 34         | 44       | 6.7        | 8.19         |              |
|       | 12/9/2000              | 138        |      | 345        | 148                 | <0.05          | 47         | 16       | 6.4        | 8.36         |              |
|       | 26/09/00<br>28/10/00   |            |      |            | 137                 |                | 55         | 129      | 6.1<br>2.1 | 8.09         |              |
|       | 29/10/00               |            |      |            | 269                 |                | 328        | 2        | 4.1        |              |              |
|       | 13/11/00               |            |      |            | 244                 |                | 87         | 2        | -0.4       | 8            |              |
|       | 18/11/00               |            |      |            | 137                 |                | 100        | 1.4      |            |              |              |
|       | 14/12/00               |            |      |            | 355                 |                | 119        | 1.2      |            | 8            | 0.07         |
|       | 13/01/01<br>10/2/2001  |            |      |            | 304<br>324          |                | 219<br>274 | 2<br>2   |            |              | 8.07<br>8.02 |
|       | 5/3/2001               | 144.3      |      | 1360       | ~~3                 |                | 703        | 8        | 1          | 8            | 0.04         |
|       | 10/3/2001              |            |      |            | 411                 |                | 153        | 2        | -0.2       | 8            |              |
|       | 16/04/01               |            |      |            | 283                 |                | 138        | 4        | 0.2        | 8.2          |              |
|       | 14/05/01<br>13/06/01   | 47         |      |            | 241<br>75           | <0.0r          | 76         | 9        | 2.7        | 8.4          |              |
|       | 17/06/01               | -47        |      |            | 83                  | <0.05          | 20<br>23   | 31<br>30 | 5.9<br>6.3 | 8.5<br>8.6   |              |
|       | 14/07/01               |            |      |            | 181                 |                | 54         | 8        | 8.4        | 8.5          |              |
|       | 14/08/01               |            |      |            | 439                 |                | 75         | 9        | 8.1        | 8.5          |              |
|       | 8/9/2001               | 138        |      | 350        | 201                 | <0.05          | 64         | 2        | 3.8        | 8.5          |              |
|       |                        |            |      |            |                     |                |            |          |            |              |              |

# Vangorda Plateau Site - Select Surface Water Quality Listing, 1998 to 2002, Physical Parameters

|                          |       | -          | •    |            |                |           |          |          |              |                                  |
|--------------------------|-------|------------|------|------------|----------------|-----------|----------|----------|--------------|----------------------------------|
| Station Date             | ALK+T | FLOW COMD  | CN-T | EARD-T     | nh3-n          | 504-T     | TSS      | TEMP-C   | PH-F         | PH-Lab                           |
|                          |       |            |      | (CACO3)    |                |           |          |          |              | a light size of the legal of the |
|                          | mg/L  | L/S µS/can | mg/L | mg/L       | mg/L           | mg/L      | mg/L     |          | pH unit      | pH unit                          |
| 17/09/01                 |       |            |      | 196        |                | 61        | 3        | 6.2      | 8.3          |                                  |
| 15/10/01                 |       |            |      | 284        |                | 94        | 8        | -0.4     | 8.2          |                                  |
| 13/11/01                 |       |            |      | 288        |                | 98        | 6        | -0.4     | _8           |                                  |
| 14/12/01                 |       |            |      | 318        |                | 100       | <1       | -0.4     | 7.9          |                                  |
| 15/01/02                 |       |            |      | 378        |                | 135       | <1       |          |              |                                  |
| 12/2/2002                |       |            |      | 419        |                | 136       | 7        |          |              |                                  |
| 12/3/2002<br>21/03/02    | 270   | 745        |      | 458        | 10.05          | 150       | 7        |          |              |                                  |
| 15/04/02                 | 270   | /45        |      | 463        | <0.05          | 175       | 4        |          |              |                                  |
| 13/04/02                 |       |            |      | 467        |                | 168       | 8        | -0.2     | 8.1          |                                  |
| 16/06/02                 |       |            |      | 178        |                | 56        | 45       |          |              |                                  |
| 16/06/02                 |       |            |      | 121        |                | 37        | 10       |          |              |                                  |
| 25/06/02                 |       |            |      | 121        |                | 105       | 12       |          |              |                                  |
| 25/06/02                 | 92    | 385        |      | 205        | <0.05          | 105       | 5        |          |              |                                  |
| 16/07/02                 | 22    | 565        |      | 205        | <0.05          | 200       | 9        |          |              |                                  |
| 16/07/02                 |       |            |      | 335        |                | 200       | 6        |          |              |                                  |
| 12/8/2002                |       |            |      | 335        |                | 239       | 0        |          |              |                                  |
| 12/8/2002                |       |            |      |            |                | 239       | 8        |          |              |                                  |
| 16/09/02                 |       |            |      |            |                | 60        | 0        |          |              |                                  |
| 16/09/02                 |       |            |      | 192        |                | 60        | c        |          |              |                                  |
| 27/09/02                 |       |            |      | 192        |                | 66        | 6        |          |              |                                  |
|                          | 127   | 360        |      | 206        | <0.05          | 66        | 7        |          |              |                                  |
| 27/09/02                 | 127   | 380        |      | 206        | <0.05          | 74        | 3        | 4.6      | 8.2          |                                  |
| 15/10/02                 |       |            |      | 0.7.7      |                | 74        | -        |          |              |                                  |
| 15/10/02<br>11/11/2002   |       |            |      | 237        |                |           | 5        |          | ~ ~          |                                  |
|                          |       |            |      |            |                | 100       |          | 0.5      | 8.2          |                                  |
| 12/11/2002               |       |            |      | 202        |                | 100       | -        |          |              |                                  |
| 12/11/2002<br>10/12/2002 |       |            |      | 303        |                | 330       | 7        |          |              |                                  |
|                          |       |            |      | 224        |                | 119       | e        |          | ~            |                                  |
| 10/12/2002               |       |            |      | 334        |                |           | 5        | -0.2     | 8            |                                  |
| 14/12/02<br>15/12/02     |       |            |      |            |                | 1 1 2     |          | 0.5      | 7.8          |                                  |
|                          |       | 676        | 100  | 200        | -0.05          | 113       | ~        |          |              |                                  |
| 15/12/02                 |       | 575        | 190  | 306        | <0.05          |           | 6        |          |              |                                  |
| VGMAIN                   |       |            |      | 27.0       | -0.05          | 1.02      |          |          |              |                                  |
| 17/03/98                 |       |            |      | 318        | <0.05          | 107       | 4        |          | 7.6          |                                  |
| 14/04/98                 |       |            |      | 285        | <0.05          | 105       | 5        |          |              |                                  |
| 19/05/98                 |       |            |      | 87         | <0.05          | 21        | 17       |          | 7.5          |                                  |
| 30/06/98                 |       |            |      | 152        | <0.05          | 40        | <1       |          | 7.82         |                                  |
| 21/07/98                 |       |            |      | 100        | <0.05          | 24        | 1        | -        | 8.13         |                                  |
| 15/09/98                 |       |            |      | 109        | <0.05          | 34        | 5        | 6        | 7.81         |                                  |
| 19/10/98                 |       |            |      | 155        | <0.05          | 48        | 1        |          | 7.91         |                                  |
| 17/11/98                 |       |            |      | 275        | <0.05          | 86        | 2        |          | 7.75         |                                  |
| 31/12/98                 |       |            |      | 371<br>298 | <0.05          | 149       | <1       |          | 7.21         |                                  |
| 20/04/99                 |       |            |      | 100        | 0.06           | 126       | 3        | 1        | 0 01         |                                  |
| 18/05/99                 |       |            |      | 34         | 0.06           | 33<br>7   | 42       | 1        | 8.01         |                                  |
| 20/06/99<br>29/07/99     |       |            |      | 54<br>74   | 0.07           | 20        | 125<br>4 | 7        | 7.58         |                                  |
|                          |       |            |      | 134        | <0.05<br><0.05 |           | <1       | 10       | 7.99         |                                  |
| 12/10/1999<br>27/04/00   |       |            |      | 207        | <0.05          | 46<br>99  | 1        | 2<br>3   | 7.48         |                                  |
|                          |       |            |      | 178        | <0.05          | 55<br>61  | 3        |          | 7.74         |                                  |
| 15/05/00                 |       |            |      | 62         | <0.05          | 17        | 2        | 6        | 7.35         |                                  |
| 20/06/00<br>25/07/00     |       |            |      | 87         | <0.05          | 27        | 2        | 11.2     | 0.10         |                                  |
| 29/08/00                 |       |            |      | 124        |                | 31        | 11       | 7.5      | 8.16<br>8.12 |                                  |
| 26/09/00                 |       |            |      | 137        |                | 46        | 67       | 6.1      | 8.11         |                                  |
| 28/10/00                 |       |            |      | 15,        |                | 20        | 07       | 2.5      | 0.11         |                                  |
| 29/10/00                 |       |            |      | 230        |                | 254       | 3        | <b>-</b> |              |                                  |
| 13/11/00                 |       |            |      | 288        |                | 2J4<br>98 | 6        | -0.4     | 8            |                                  |
| 18/11/00                 |       |            |      | 137        |                | 98        | <0.2     | 0.14     | 0            |                                  |
| 14/12/00                 |       |            |      | 306        |                | 109       | 1        |          | 8.01         |                                  |
| 13/01/01                 |       |            |      | 280        |                | 191       | <1       |          | 0.01         | 8.09                             |
| 10/2/2001                |       |            |      | 288        |                | 227       | 2        |          |              | 7.86                             |
| 10/3/2001                |       |            |      | 341        |                | 132       | 3        | -0.2     | 8.1          | /.00                             |
| 16/04/01                 |       |            |      | 358        |                | 123       | 5        | 0.2      | 8.2          |                                  |
| 14/05/01                 |       |            |      | 241        |                | 82        | 5        | 2.2      | 8.5          |                                  |
| 17/06/01                 |       |            |      | 63         |                | 20        | 23       | 6.5      | 8.6          |                                  |
| 14/07/01                 |       |            |      | 144        |                | 47        | 4        | 8.6      | 8.4          |                                  |
| 14/08/01                 |       |            |      | 395        |                | 72        | ~1       | 8.5      | 8.5          |                                  |
| 17/09/01                 |       |            |      | 156        |                | 52        | <1       | 6.3      | 8.3          |                                  |
| 15/10/01                 |       |            |      | 220        |                | 32<br>76  | 2        | -0.4     | 8.3          |                                  |
| 13/11/01                 |       |            |      | 244        |                | 87        | 2        | -0.4     | 8            |                                  |
| 14/12/01                 |       |            |      | 268        |                | 85        | <1       | -0.4     | 8            |                                  |
| 15/01/02                 |       |            |      | 320        |                | 119       | 1        |          | 5            |                                  |
| 12/2/2002                |       |            |      | 353        |                | 116       | 4        |          |              |                                  |
| 15/04/02                 |       |            |      | 380        |                | 144       | <1       | -0.4     | 8.2          |                                  |
| 13/05/02                 |       |            |      | 190        |                | 67        | 31       | ·V.4     | 0.2          |                                  |
| 16/06/02                 |       |            |      | 101        |                | 34        | 2        |          |              |                                  |
|                          |       |            |      |            |                |           |          |          |              |                                  |
|                          |       |            |      |            |                |           |          |          |              |                                  |

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# Vangorda Plateau Site - Select Surface Water Quality Listing, 1998 to 2002, Physical Parameters

|         |                       |          | traffic management of the second |              |                      |            |                |              |              |                 |              |                   |
|---------|-----------------------|----------|----------------------------------|--------------|----------------------|------------|----------------|--------------|--------------|-----------------|--------------|-------------------|
| Station | Date                  | АЦХ-Т    | Flow                             | COND         | CN-T                 | HARD-T     | NH3-N          | S04-T        | TSS          | TEMP-C          | PH-F         | PH-Lab            |
|         | 100.00 00.00 00.00    |          |                                  |              | tille and section of | (CACO3)    | State States   | 655 (CAR) 28 | 08 (A 16 76) | An Carlos de la |              | Southerney of the |
|         |                       | rsg/L    | L/s                              | µ8/cma       | mg/L                 | mg/L       | mg/L           | mg/l         | mg/L         |                 | pH unit      | pä unit           |
|         | 16/07/02              |          |                                  |              |                      | 337        |                | 234          | 3            |                 |              |                   |
|         | 12/8/2002             |          |                                  |              |                      |            |                | 278          | 5            |                 |              |                   |
|         | 16/09/02              |          |                                  |              |                      | 162        |                | 57           | 4            |                 |              |                   |
|         | 15/10/02              |          |                                  |              |                      | 207        |                | 73           | 2            |                 |              |                   |
|         | 11/11/2002            |          |                                  |              |                      |            |                |              | _            | 0.4             | 8.1          |                   |
|         | 12/11/2002            |          |                                  |              |                      | 270        |                | 99           | 1            | _               |              |                   |
|         | 10/12/2002            |          | 10                               |              |                      | 288        |                | 109          | 2            | 0               | 8            |                   |
| V25BSP  | C (1 (1 000           |          | 0.1                              |              |                      |            | 0.00           | 105          | ~ .          |                 |              |                   |
|         | 6/1/1998              |          | 0.1                              |              |                      |            | 2.65           | 486          | 34           |                 | 7.13         |                   |
|         | 12/1/1998             |          | 0.01                             |              |                      |            | 0.14           | 310          | 5            |                 | 7.2          |                   |
|         | 17/03/98<br>14/04/98  |          | 0.1                              |              |                      |            | <0.05          | 222          | 11           |                 |              |                   |
|         | 19/04/98              |          | 0.5                              |              |                      |            | <0.05          | 333          | 11           |                 |              |                   |
|         | 7/5/1998              |          | 3                                |              |                      |            |                |              |              |                 |              |                   |
|         | 18/05/98              |          | 10                               |              |                      |            | <0.05          | 63           | 137          |                 | 7.4          |                   |
|         | 31/05/98              |          | 5                                |              |                      |            | <0.05          | 68           | 8            |                 | 7.4          |                   |
|         | 9/6/1998              |          | 13.2                             |              |                      |            |                |              | Ū            |                 | /            |                   |
|         | 30/06/98              |          | 5                                |              |                      |            | <0.05          | 233          | 3            |                 | 7.34         |                   |
|         | 25/07/98              |          | 0.13                             |              |                      |            |                |              | -            |                 |              |                   |
|         | 11/8/1998             |          | 0.125                            |              |                      |            | <0.05          | 249          | 2            |                 | 7.66         |                   |
|         | 18/05/99              |          | 3                                |              |                      |            | 0.07           | 68           | 129          | 2               | 7.95         |                   |
|         | 27/05/99              |          |                                  |              |                      |            |                | 63           | 148          |                 |              |                   |
|         | 18/06/99              |          | 0.5                              |              |                      |            |                |              |              |                 |              |                   |
|         | 3/7/1999              |          | 5                                |              |                      | 73         | <0.05          | 38           | 15           | 14              | 8.21         |                   |
|         | 12/8/1999             |          |                                  |              |                      |            | <0.05          | 145          | 3            | 18              |              |                   |
|         | 10/9/1999             |          | 1                                |              |                      |            |                | 136          |              | 10              | 7.83         |                   |
|         | 20/06/00              |          |                                  |              |                      |            |                | 132          | 1            |                 |              |                   |
|         | 25/07/00              |          |                                  |              |                      |            |                | 52           | 4            | 12.8            | 7.78         |                   |
|         | 29/08/00              |          |                                  |              |                      | 107        |                | 40           | 27           | 7.7             | 7.67         |                   |
|         | 25/09/00<br>28/10/00  |          |                                  |              |                      | 187        |                | 77           | 2.2          | 5.1             | 7.34         |                   |
|         | 29/10/00              |          |                                  |              |                      |            |                | 59           | 4            | 1.8             |              |                   |
|         | 18/11/00              |          |                                  |              |                      | 187        | 0.02           | 84           | 0.4          |                 |              |                   |
|         | 14/12/00              |          |                                  |              |                      | 207        | 0.02           | 107          | 0.4          |                 | 7.4          |                   |
|         | 14/05/01              |          |                                  |              |                      |            |                | 127          | 3            | 0.2             | 8.4          |                   |
|         | 17/06/01              |          |                                  |              |                      | 68         |                | 23           | 159          | 12.3            | 8.5          |                   |
|         | 14/07/01              |          |                                  |              |                      | 100        |                | 38           | 7            | 11.7            | 8.4          |                   |
|         | 14/08/01              |          |                                  |              |                      |            |                | 84           | 4            | 11.4            | 7.7          |                   |
|         | 17/09/01              |          |                                  |              |                      |            |                | 106          | 4            | 6.2             | 8            |                   |
|         | 15/10/01              |          |                                  |              |                      |            |                | 101          | 2            | 0.2             | 8.4          |                   |
|         | 13/05/02              |          |                                  |              |                      |            |                | 110          | 6            |                 |              |                   |
|         | 16/06/02              |          |                                  |              |                      |            |                | 54           | 4            |                 |              |                   |
|         | 25/06/02              | 39       |                                  | 1075         | <0.01                |            | 0.11           | 563          | 17           |                 |              |                   |
|         | 9/7/2002              | 31       |                                  | 1215         | <0.01                | 739        | 0.07           | 693          | 5            |                 |              |                   |
|         | 16/07/02              | 30       |                                  | 1260         | <0.01                | 815        | 0.07           | 729          | 8            |                 |              |                   |
|         | 23/07/02              | 33<br>31 |                                  | 1360<br>1370 | <0.01<br><0.01       | 773<br>847 | <0.05<br>0.11  | 799          | 6<br>6       |                 |              |                   |
|         | 6/8/2002<br>12/8/2002 | 29       |                                  | 1430         | <0.01                | <0.1       | 0.11           | 810<br>803   | 9            |                 |              |                   |
|         | 20/08/02              | 31       |                                  | 1385         | <0.01                | 778        | 0.15           | 790          | 7            |                 |              |                   |
|         | 27/08/02              | 33       |                                  | 1320         | <0.01                | 755        | 0.05           | 747          | 2            |                 |              |                   |
|         | 16/09/02              |          |                                  |              |                      |            |                | 490          | 2            |                 |              |                   |
|         | 15/10/02              |          |                                  |              |                      |            |                | 476          | 4            |                 |              |                   |
|         | 11/11/2002            |          |                                  |              |                      |            |                |              |              | 0.4             | 8            |                   |
|         | 12/11/2002            |          |                                  |              |                      |            |                | 309          | 16           |                 |              |                   |
| V27     |                       |          |                                  |              |                      |            |                |              |              |                 |              |                   |
|         | 29/05/98              |          |                                  |              |                      |            | <0.05          | 45           | 7            |                 | 6.66         |                   |
|         | 29/06/98              |          |                                  |              |                      | 88         | <0.05          | 43           | 1            |                 | 7.72         | _                 |
|         | 14/09/98              | 110      |                                  |              |                      | 56         | <.05           | 18           | 2            |                 |              | 8.4               |
|         | 16/03/99              | 118      |                                  | 298          |                      | 149        | <0.05          | 46           | 5            | - ^             | e            | 7.92              |
|         | 18/06/99              | 5        | 785                              | 46.3         |                      | 18         | <0.05          | 5            | 4            | <8              | 8.33         |                   |
|         | 29/07/99<br>31/08/99  | 5<br>46  | 348                              | 46.3         |                      | 36<br>49   | <0.05<br><0.05 | 14<br>16     | 5<br>3       | 4.4<br>5.2      | 7.74<br>7.97 |                   |
|         | 12/10/1999            | 59       | 340                              | 162          |                      | 49<br>69   | -0.00          | 27           | -1           | 3               | 8.41         |                   |
|         | 25/03/00              | 111      |                                  | 295          |                      | 148        | <.05           | 50           | 1            | 5               | 0.41         | 7.93              |
|         | 20/06/00              | 66       |                                  | 67           |                      | 26         |                | 9            | 2            |                 |              |                   |
|         | 12/9/2000             | 66       |                                  | 183          |                      | 74         |                | 37           | 1            | 3.2             | 7.63         |                   |
|         | 7/6/2001              |          |                                  |              |                      |            |                |              |              | 3.1             | 8.6          | 7.64              |
|         | 25/06/02              |          |                                  |              |                      |            |                | 125          |              |                 |              |                   |
|         | 25/06/02              | 39       |                                  | 352          |                      | 174        |                |              | 2            |                 |              |                   |
|         | 27/09/02              |          |                                  |              |                      |            |                | 46           | _            |                 |              |                   |
|         | 27/09/02              | 47       |                                  | 187          |                      | 96         |                |              | 1            | 4.2             | 8.3          |                   |
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|------------------|--------------------|-------------------------------------------------|--------------------|------------------------------------------|--------------------------------------------------------------------------------------------------|----------------|----------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|-----------------|--------------------------------|--------------------|-----------------|--------------------|--------------------|--------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------------|------------------------------------------------------|-------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------|----------------------------------------------------------------|---------------------------------------------------------|--------------------|
|                  | T-H2               | 4,000 v                                         |                    |                                          | 10.2                                                                                             |                | 0.01                                   |                                                                  | 5.5.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |                    |                 |                                | • •                |                 |                    |                    |                    |                               | 10.0<br>10.0                                                                                                                   | 0.34               | 0.01                                | 0.02                                                 | 0.0                                 | 0.01                                     | 0.02                                                                                   | 0.0                                                                                | 0.012                                                                                 | 0.02                                              | 0.26                    | 0.010                                                          | 5000                                                    | 0.02               |
|                  | 1-N                | 100> S                                          |                    |                                          |                                                                                                  |                | 4,03                                   |                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |                    |                 |                                |                    |                 |                    |                    |                    |                               |                                                                                                                                |                    |                                     |                                                      |                                     |                                          |                                                                                        |                                                                                    | 9 6 6 9<br>6 6 6 9<br>6 6 6 9                                                         |                                                   |                         |                                                                |                                                         |                    |
|                  | t-X                | ==/I                                            |                    |                                          |                                                                                                  |                | <005<br>0.009                          |                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |                    |                 |                                |                    |                 |                    |                    |                    |                               | 100.05<br>100.00<br>100.05                                                                                                     | 200'>              | <. 005<br><. 005                    | <ul> <li>.005</li> <li>.005</li> <li>.005</li> </ul> | 0.01<br>2.005                       | <005<br>0.022                            | 6<br>6<br>6<br>6<br>7<br>6<br>7<br>6<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7 | <ul> <li>&lt;.005</li> <li>&lt;.005</li> <li>&lt;.005</li> <li>&lt;.005</li> </ul> | <ol> <li>0.001</li> <li>0.001</li> <li>0.001</li> <li>0.001</li> <li>0.001</li> </ol> | 9T0'0                                             | <.005<br>0.019          | 500° ×                                                         | 0.012                                                   | *.005<br>*.005     |
|                  | <b>L-IL</b>        | D-0127                                          | 0.008              | <ul> <li>4,005</li> <li>4,005</li> </ul> | 0.027                                                                                            | 0.021          | 0.012                                  | 0.005<br><0.005<br>0.028                                         | 0.012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.009              | 0.016              | 0.017           | 0.005                          | 500.02<br>200.05   | <0.005          | -0.013             | 0.018              | 0.01               | 0.002                         | 0.009                                                                                                                          | 0,005              | <.005<br>0.011                      | 0.017                                                | <ul><li>.005</li><li>.011</li></ul> | 0.015                                    | <.005<br>c.005<br>c.005                                                                | 0.006                                                                              | 0.003                                                                                 | <.005                                             | 0.006                   | ·                                                              | 0.012                                                   | 0.018              |
|                  | 1-18               | 11679<br>0.1679                                 | 0.282              | 0.042                                    | 0.181                                                                                            | 0.054          | <pre>&lt;0.03 11 0.311 </pre>          | <0.03<br><0.03<br>0.369                                          | 0.224<br>0.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.448              | 0.123              | 0.368           | 0.311                          | 751.0<br>751.0     | <0.005<br>0.005 | ¢0.005             | 0.184              | 0.224              | 0.232                         | 792.0<br>166.0<br>166.0                                                                                                        | 0.194              | 0.07                                | 0.126<br>0.259                                       | 0.088                               | 0.125                                    | 0.088<br>2.005                                                                         | 1.33                                                                               | 0.102                                                                                 |                                                   |                         |                                                                | 0.537                                                   |                    |
|                  | 1-14               | ₩2/L                                            | 555                | 0.301                                    | <.01<br>0.317                                                                                    | 0.152          | 0.01<br>0.02<br>0.09                   | 0.01<br>10.02                                                    | 5 5 5<br>5 5 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10.0               | 0.01               | <.01<br>0.06    | 10.0                           | 0.09               | 0.427           | 0.173              | 0.001              | 0.009              | 60.002<br>0.027               | 40.002<br>40.002<br>40.002                                                                                                     |                    |                                     |                                                      |                                     |                                          |                                                                                        | 10.0                                                                               | 60.002<br>60.002<br>60.002                                                            |                                                   |                         |                                                                |                                                         |                    |
|                  | 1-11               | 2.795                                           | - m .              | , to ; ;                                 | - ÷                                                                                              | 10.5           | 5.1<br>5.3                             | 0.35<br>0.341<br>4.8                                             | ល ហ ្គី<br>ស                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                    | 3.1                | 5.4             |                                | °.°.               | 0.02            |                    |                    |                    | -                             | 11111                                                                                                                          |                    |                                     |                                                      |                                     |                                          |                                                                                        |                                                                                    | 999<br>1997<br>1997                                                                   | 4.2                                               | 7 7 7<br>7 7<br>7 7     |                                                                | <br>                                                    | . " <sup>"</sup>   |
|                  | t-14<br>8          | 100 v                                           | 500 4              | , 4 U                                    | <ul><li>.005</li><li>5.5</li></ul>                                                               | 6.7<br>6.7     | *0.05                                  | 60.03<br>60.03                                                   | <ul> <li>.005</li> <li< th=""><th>200. 2</th><th>0.059<br/>0.059</th><th>200.05</th><th><pre>0.026<br/>&lt;0.005</pre></th><th>500.05</th><th>9. v<br/>9. v</th><th>6.9<br/>9.1</th><th>&lt;0.005</th><th>&lt;0.005</th><th>&lt;0.005<br/>&lt;0.005</th><th>60.005<br/>60.005<br/>60.005</th><th>10. v<br/>10. v</th><th>5.5</th><th>5,5,5</th><th>500 v</th><th>4,005</th><th></th><th>&lt;.005<br/>&lt;.005</th><th>6.005<br/>6.005</th><th>5 G V</th><th>555</th><th>8888</th><th>, , , , , , , , , , , , , , , , , , ,</th><th>888</th></li<></ul> | 200. 2             | 0.059<br>0.059     | 200.05          | <pre>0.026<br/>&lt;0.005</pre> | 500.05             | 9. v<br>9. v    | 6.9<br>9.1         | <0.005             | <0.005             | <0.005<br><0.005              | 60.005<br>60.005<br>60.005                                                                                                     | 10. v<br>10. v     | 5.5                                 | 5,5,5                                                | 500 v                               | 4,005                                    |                                                                                        | <.005<br><.005                                                                     | 6.005<br>6.005                                                                        | 5 G V                                             | 555                     | 8888                                                           | , , , , , , , , , , , , , , , , , , ,                   | 888                |
|                  | 1-88               | 100.5                                           |                    | <ul><li>.005</li><li>.005</li></ul>      | ¢.03                                                                                             | <.005<br><.005 | 50.03<br>50.03                         | 4.8<br>4.52<br>4.03                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10,0               | 0.0                | ••••            | 5 5 5 5<br>5 5 5 5             | 50.0               | 0.02            | <0.005<br>0.005    | 0.019              | 0.013              | 60.002<br>0.011               | 60.002<br>60.002<br>60.002                                                                                                     |                    |                                     |                                                      |                                     |                                          |                                                                                        |                                                                                    | 0.013                                                                                 | £0.5<br>£0.5                                      | 0.03<br>0.03            |                                                                |                                                         | 56.5               |
|                  | 1-8                | 20.83                                           | 283                | 10,0                                     | 4°,                                                                                              | 6 6 F          | 119<br>35                              | <ol> <li>40.2</li> <li>91</li> </ol>                             | 112<br>24<br>56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 35                 |                    | 561             | 9 49 F                         | 1 K K              | 40.03<br>0.04   | 40.03<br>0.05      | 14.9               | 22.2               | 21.3                          | 39.2                                                                                                                           |                    |                                     |                                                      | _                                   |                                          |                                                                                        |                                                                                    | 5.7 ·<br>8<br>16.2                                                                    | 46                                                | ;] æ ¢                  | 6 <b>1</b> 9                                                   | 20.7<br>60                                              | 69<br>69<br>69     |
|                  | T-84               | 100.1<br>2.001                                  | 10.4               | 10.0                                     | 10.2                                                                                             | 10.2           | 10.05                                  | <0.2<br><0.2<br><.01                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10 T               | 10,1               | 10.01<br>60.01  | 5 5 5 5                        | 0.00               | 51              | 19                 | 0.016              | 0.009              | 0.003                         | <pre>&lt;0.002</pre> <pre>&lt;0.002</pre> <pre><pre>&lt;0.004</pre><pre><pre><pre><pre>&lt;0.004</pre></pre></pre></pre></pre> | 0.10<br>20.1       | 5 <del>.</del> 5                    | 5 5 5<br>5 7 5                                       | 5.5                                 | 0.06                                     | , , ,                                                                                  | 10.5                                                                               | 0.014                                                                                 | <ul> <li>.02</li> <li>.02</li> <li>.02</li> </ul> | 0.04                    | 555                                                            | 5555                                                    | 10 TO V            |
|                  |                    |                                                 |                    |                                          |                                                                                                  |                |                                        |                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |                    |                 |                                |                    |                 |                    |                    |                    |                               | 0.0                                                                                                                            |                    |                                     |                                                      |                                     |                                          |                                                                                        |                                                                                    | 10<br>10<br>10<br>10<br>10<br>10                                                      | <.04<br><.04                                      | 4.04<br>0.87            | 2.13<br>2.13                                                   | 2.49<br>1.82                                            | 1.21               |
|                  | t-15               | 1)<br>1000 . A                                  | 0.02               | 0.007                                    | <.005<br>0.022                                                                                   | 0.006          | 200.0                                  | E.05<br>E.05                                                     | <ul><li>.005</li><li>.005</li><li>.005</li><li>.005</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 200.2              | 0.021<br>4.005     | 0.006           | 500°02                         | <0.005<br>0.005    | 10.0            | <0.01<br>0.19      | 110.0              | 0.002              | •0.001<br>0.002               | 6.001<br>0.004<br>0.002                                                                                                        | <005<br><.005      | <005<br><.005                       | 4.005<br>4.005                                       | 800°9                               | 4,005<br>0,032                           | 4.005                                                                                  | <ul><li>.005</li><li>.005</li><li>.006</li></ul>                                   | 0.006                                                                                 | <.005                                             | 0.007                   | 0.0                                                            | 0.012                                                   | *.005<br>•.01      |
|                  | <b>1-1</b>         | 5.29<br>5.29                                    |                    | 5 5                                      | <b>м м</b>                                                                                       |                | 5                                      | 40.05<br>6.05                                                    | r. cz 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | - 7                | r) -14"            | 6 V) 0          | 7 <del>~</del> ~               |                    | <0.005          | <0.005<br>0.019    | с.<br>с. с.        | 5.5<br>1.5         |                               | 5.9<br>5.1<br>4.4                                                                                                              | 2 2                | ~ ~                                 | N m *                                                | 61                                  | m 01 (                                   | ; n m                                                                                  | 2 - 0                                                                              | 1.2                                                                                   | ** [~                                             | 6 er er                 | 50 00 1                                                        | ••99                                                    |                    |
|                  | 1-0M               | 0.0009                                          | ×.002              | 0.002                                    | <ul> <li>002</li> <li>002</li> <li>002</li> </ul>                                                | 4.002<br>0.006 | <.002<br><0.002                        | 4<br>4<br>0.009                                                  | 605<br>602                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.011              | *,002<br>0.003     | 4,002<br>0,003  | 40.002                         | <0.002             | r- 00           | œ <b>≁</b>         | -0.001<br>0.011    | 0.003              | 0.002                         | 0.003                                                                                                                          | 0.002<br>4.002     | <ul><li>,002</li><li>,002</li></ul> | 4,002<br>4,002                                       | < 002<br>0.037                      | <ul> <li>0.002</li> <li>0.005</li> </ul> | 0.005                                                                                  | <ul> <li>.002</li> <li>.002</li> <li>.002</li> </ul>                               | <0.001<br>0.002<br><0.001                                                             | 0.006                                             | 0.003<br>*.002          | <ul> <li>002</li> <li>002</li> <li>002</li> <li>002</li> </ul> | 6.007<br>6.002                                          | • .002<br>• .002   |
|                  | 1-W                | 0.0088                                          | 0.01               | 10.0                                     | 0.03                                                                                             | 0.02           | 4.01<br>0.05                           | 6.01<br>6.01                                                     | •.01<br>•.02<br>•.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.02               | 0.25               | 0.04<br>0.01    | 10 Q                           | 0.03               | 0.004           | 0.007<br>0.01      | 0.05               | 0.038              | 0.014                         | 0.036<br>0.033<br>0.028                                                                                                        | 0.04               | 0,08<br><.01                        | 10 <sup>.0</sup>                                     | 0.01                                | 19.9                                     |                                                                                        | 0.01                                                                               | 0.011<br>0.01<br>0.022                                                                | 0.14                                              | 0.04                    | 0.02                                                           | 0.03                                                    | 0.54               |
|                  | 5                  |                                                 |                    |                                          |                                                                                                  |                |                                        | 0.019<br>0.007<br>37.9                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |                    |                 |                                |                    |                 |                    |                    |                    |                               |                                                                                                                                | 8-2<br>8-6         | с.<br>г. ф                          | 4.5<br>10.4                                          | 3.9                                 | 4 G G                                    | 4 7 7                                                                                  | 2.3                                                                                | 5.7                                                                                   | 32.5<br>40.6                                      | 36<br>9.3<br>11.7       | 19.8<br>11.6<br>16                                             | 17.5<br>60.3<br>35.5                                    | 47.3               |
|                  | 5                  | <pre>************************************</pre> | <.005<br>0.025     | <.005<br>0.027                           | <.005<br>0.122                                                                                   | 2005<br>2005   | <ul> <li>.005</li> <li>.024</li> </ul> | 33.3<br>39.9<br>•.005                                            | <ul> <li>.005</li> <li>.005</li> <li>.005</li> <li>.005</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <005<br>0.005      | 0.005              | 0.006<br>40.005 | sto.0                          | 0.024              | 47.1<br>58.7    | 71.J               | 0.005              | 0.013              | 0.004                         | 0.004                                                                                                                          | <.005<br><.005     | 0.021                               | 4.005<br>0.027                                       | <. 005<br>4, 005                    | 4,005<br>0.014                           | 500.5                                                                                  | <.005<br><.005<br>0.01                                                             | 0,005<br>0.004<br>0.002                                                               | 200. ×                                            | <.005<br><.005          | 0.022<br>4.005                                                 | <ul> <li>4.005</li> <li>4.005</li> <li>0.024</li> </ul> | <.005<br>0.009     |
|                  | н-к<br>Н-к         | e i                                             |                    |                                          |                                                                                                  |                |                                        | 4 8 m i                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |                    |                 |                                |                    |                 |                    |                    |                    |                               |                                                                                                                                |                    |                                     |                                                      |                                     |                                          |                                                                                        |                                                                                    | 0.6<br>0.5<br>0.7                                                                     | - 7                                               | 4 → 4                   | 44-                                                            | , Å u ∾                                                 | 1 1 1 1            |
|                  | Ë                  |                                                 |                    |                                          |                                                                                                  |                |                                        | 0.15                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |                    |                 |                                |                    |                 |                    |                    |                    | 0.153<br>0,153                | 0.418                                                                                                                          |                    |                                     |                                                      |                                     |                                          |                                                                                        |                                                                                    | 0.252<br>0.158<br>0.18                                                                |                                                   |                         |                                                                | 0.16                                                    |                    |
|                  | ë                  | 91                                              |                    |                                          |                                                                                                  |                |                                        | 10.01<br>0.034                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |                    |                 |                                |                    |                 |                    |                    |                    | 0.01                          | 1 0.01                                                                                                                         | άó                 | 00                                  | o o o                                                | 00                                  | 000                                      | 0.004                                                                                  | v o o                                                                              | 0.010                                                                                 |                                                   |                         |                                                                | 0.014                                                   |                    |
| ela              |                    |                                                 |                    |                                          |                                                                                                  |                |                                        | 10.01                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |                    |                 |                                |                    |                 |                    |                    |                    |                               |                                                                                                                                | 200°×              | 0.026                               | - 00<br>- 4<br>- 00<br>- 4                           |                                     |                                          |                                                                                        |                                                                                    | 0.007                                                                                 | 200.×                                             | 0.029<br>0.018<br>0.025 | 0.038                                                          | 0.02                                                    | 0,089              |
| Total Net        | 5                  | 000.00                                          | 00.4               | 0.024                                    |                                                                                                  |                | *, 00<br>*0.00                         | 10.01                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 500 Y              | 88                 |                 | 0.00                           | \$0.00<br>\$0.00   | 1 <0.00         | 1 <0.00            | 00.05              | 0.002              | 00.00                         | 0.0010                                                                                                                         |                    | 500.4                               |                                                      |                                     |                                          |                                                                                        |                                                                                    | <0.001<br><0.001<br>0.001                                                             |                                                   |                         |                                                                | 005<br>005                                              |                    |
| 2002, To         |                    |                                                 |                    |                                          |                                                                                                  |                |                                        | <pre>&lt;0.001<br/>&lt;0.01<br/>&lt;0.01<br/>&lt;0.01<br/></pre> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |                    |                 |                                |                    |                 |                    |                    |                    |                               |                                                                                                                                | <.002<br><.002     | <ul><li>.002</li><li>.002</li></ul> | \$,002<br>\$,001<br>\$                               | <pre></pre>                         | 0.005                                    |                                                                                        | 100. *<br>100. *                                                                   | 1.3<br>60,2<br>1.3                                                                    | <.002<br><.002                                    | 0.002<br><.002          | <002<br><.002                                                  | *.002<br>*.001                                          | 100.0              |
| e<br>t           |                    |                                                 |                    |                                          |                                                                                                  |                |                                        | 83.1<br>86.5                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |                    |                 |                                |                    |                 |                    |                    |                    |                               |                                                                                                                                |                    |                                     |                                                      |                                     |                                          |                                                                                        |                                                                                    | 20.7<br>30.3<br>49.7                                                                  | 77.7<br>85.8                                      | 24.8<br>35.3            | 50.2<br>33<br>40.6                                             | 44.4<br>131.8<br>75.7                                   | 100.9              |
| ng, 1998         | F-18               | 2 <.001                                         | 1 <.04             | 1 <.05                                   | 1<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 |                | 205                                    | 5 00.1<br>5 00.1                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | L 0.06<br>L ≮.05   | 1                  |                 | 1 <0.05                        | 1 <0.05            | 1 <0.05         | 1 <0.05            |                    |                    |                               |                                                                                                                                |                    |                                     |                                                      |                                     |                                          |                                                                                        |                                                                                    | 6.03<br>6.03                                                                          |                                                   |                         |                                                                | 20.7<br>20.7                                            |                    |
| r Listing.       |                    |                                                 |                    |                                          |                                                                                                  |                |                                        | <0.005<br><0.005<br>0.002                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |                    |                 |                                |                    |                 |                    |                    |                    |                               | 0 0<br>0 0<br>7                                                                                                                |                    |                                     |                                                      |                                     |                                          |                                                                                        |                                                                                    | 0.0<br>0.2<br>0.2                                                                     |                                                   |                         |                                                                | 00.1                                                    |                    |
| Quality          | r.<br>1            | 0.152                                           | 0.14               | 0.186                                    | 6.1.0                                                                                            | 0.169          | 0.276                                  | 0.195                                                            | 0.267                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.177              | 0.177              | 0.309<br>0.14B  | 0.195                          | 0.096              | 0.234           | 0.176              | 0.218              | 0.185              | 0.156<br>0.159<br>0.154       | 0.149<br>0.151<br>0.168                                                                                                        |                    |                                     |                                                      |                                     |                                          |                                                                                        |                                                                                    | 0.149<br>0.135<br>0.137                                                               |                                                   |                         |                                                                | 0.053                                                   |                    |
| Hater            | / Sec. (*          | 0.04                                            | 5 4.05<br>20.4     | 8 ×.05                                   |                                                                                                  | 0.15<br>0.15   | 5 <0.05                                | 1.05                                                             | 0.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 20.2               | 0.19               | 50°5            | 5 40.05                        | 5 <0.03<br>5 <0.03 | 5 0.03          | 5 0.05             | 0.0<br>0.1<br>0.1  | 3 -0-0             | 3 0.09                        | 3 0.13<br>0.12                                                                                                                 |                    |                                     |                                                      |                                     |                                          |                                                                                        |                                                                                    | 0.1                                                                                   |                                                   |                         |                                                                | 0.13                                                    |                    |
| Burface          | R                  |                                                 | 8.9                | 0.00                                     | 889                                                                                              |                | *00.00<br>*0.00                        | 40.2<br>40.2                                                     | . 4 s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5.5                | 888                | 00.05           | 00.09                          | 00.05              | 0.0°            | 00.00<br>\$0.00    | 5 0.04             | 8 <0.00            |                               | 1 <0.003<br>5 0.011<br>8 0.023                                                                                                 |                    |                                     |                                                      |                                     |                                          |                                                                                        |                                                                                    | 0 014<br>1 <0 003<br>0 015                                                            | 102                                               |                         |                                                                | <ul><li>.02</li><li>.005</li><li>.005</li></ul>         |                    |
| Select .         | 7-64 114 114-1<br> | 3 0.08                                          | 0.26               | 1.1                                      | 14.0 C                                                                                           |                | 4.0 E                                  | 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0                          | 0.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1.19<br>1.19       | 0.10               |                 | 0.28                           | 12.0 E0            | 50'0 II         | 10.0<br>14.4<br>10 | 0.65               | 0.38               | 0.09                          | 0.29                                                                                                                           | 10.31<br>20.3 E    | 0.0                                 |                                                      | 0.12                                | 8 C C                                    | 0.02                                                                                   | 1 5 7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5                                            | 0.177<br>0.081<br>0.077                                                               | 0.05                                              |                         |                                                                | 0.11                                                    |                    |
| 81te - 8         | Į.                 | 00. 2 0                                         | 8.2                | 0.10                                     |                                                                                                  |                | 00.°                                   |                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 88                 | 888                | 00.05           | 20.05<br>20.05                 | 10.05<br>50.05     | 2 40.00         | 0.05<br>0.05       | 8°0                | 2 0.4              |                               | 6 6 6<br>1 1 0 0                                                                                                               | 00.4               | 88                                  | 888                                                  | 887                                 |                                          | 8                                                                                      | 00 0                                                                               | 60.2<br>60.2                                                                          |                                                   |                         |                                                                | E00.5                                                   |                    |
| 글                | 5                  | 1/08/95                                         | 4/12/95<br>8/02/00 | 7/04/00                                  | 0/06/01<br>5/07/00                                                                               | 2/9/200        | 9/10/00<br>3/11/00                     | 18/11/00<br>14/12/00<br>13/01/01                                 | /3/2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6/04/01<br>4/05/01 | 3/06/01<br>7/06/01 | 4/03/01         | 10/01/5                        | 10/11/E            | 5/01/02         | 3/05/02            | 6/06/02<br>5/06/02 | 6/07/02<br>1/8/200 | 6/09/07<br>7/09/02<br>5/10/02 | /11/200<br>/12/200<br>5/12/02                                                                                                  | 3/01/96<br>7/03/98 | 9/05/96<br>0/06/98                  | 3/09/96<br>1/12/98<br>1/03/99                        | 2661/6/                             | /10/195<br>4/12/99<br>3/03/00            | 0/00/00                                                                                | /3/2001<br>3/06/01<br>/9/2001                                                      | 25/06/02<br>27/09/02<br>15/12/02                                                      | 96/E0/2                                           | 86/90/0                 | 1/07/96/8/1995                                                 | 19/10/98<br>17/11/98<br>31/12/98                        | 9/01/99<br>3/02/99 |
| Vangorda Plateau | Station Date       | ° 1                                             | - 14               | 0 H                                      | 64 PA PA                                                                                         | - 11 A         | N -1                                   | 5                                                                | ~~ <del>7</del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |                    |                 |                                |                    | - 3             |                    | - 0                | - 2 -              | - 11 -                        | 23-                                                                                                                            |                    | - m 3                               | 8                                                    | • ¥ ;                               | n e n                                    | ~ 음 ·                                                                                  | ທ⊷່ໝົ                                                                              | 994<br>1997                                                                           | 4H)                                               | - A K                   | N I I                                                          | - 4 A                                                   | สพ                 |
| Vang             | Btat               |                                                 |                    |                                          |                                                                                                  |                |                                        |                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |                    |                 |                                |                    |                 |                    |                    |                    |                               | 5                                                                                                                              |                    |                                     |                                                      |                                     |                                          |                                                                                        |                                                                                    | 55                                                                                    | -                                                 |                         |                                                                |                                                         |                    |

Vangorda Plateau Tolai Metals

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| -T 2N        | 10.0 0.08                 |                                       |           |                  |             |          |          |           | 5 -         | 10.0 0.01           |            | 04                   |          | <0.03 0.05 <0.05 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 < |                                                |              |                  |          | <ol> <li>.03</li> <li>.03</li> <li>.04</li> <li>.05</li> /ol> |          |          |          |          |                                                                                               |                                       |          | 20.0 E0.  |                    | 02                | 0 20            | 03                 |                                                |            |                        |                                                                                                  |                          |          | <0.03 0.02               |                                         | <br>                 |          |                  |          |          |           | 03 0.02<br>03 0.02 |          |          |                      |            | 1<br>03 <.01            |                                                                                                  |                                                                                                | 03 0.05        |          |
|--------------|---------------------------|---------------------------------------|-----------|------------------|-------------|----------|----------|-----------|-------------|---------------------|------------|----------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|--------------|------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|----------|-----------------------------------------------------------------------------------------------|---------------------------------------|----------|-----------|--------------------|-------------------|-----------------|--------------------|------------------------------------------------|------------|------------------------|--------------------------------------------------------------------------------------------------|--------------------------|----------|--------------------------|-----------------------------------------|----------------------|----------|------------------|----------|----------|-----------|--------------------|----------|----------|----------------------|------------|-------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------|----------|
| N<br>F       | <b>¤g/L ≡</b><br><.005 <. |                                       |           |                  |             |          |          |           |             |                     |            |                      |          | <pre>&lt; 005 &lt;0</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                |              |                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |          |          |                                                                                               |                                       |          |           |                    |                   |                 |                    |                                                |            |                        |                                                                                                  |                          |          | 0.001 <0.                |                                         | '> 511               | 58       |                  |          |          |           |                    |          |          |                      |            | 0.1<br>0.1<br>05<br>0.1 |                                                                                                  |                                                                                                | 05 ¢.          |          |
| <b>2</b>     |                           |                                       |           |                  | -           |          |          |           |             |                     |            |                      |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |              |                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |          |          |                                                                                               |                                       |          |           | 05 40              | 002<br>002<br>002 |                 | 05 ×0.             | 500                                            | 60°        | 02 <0.                 | 01 40.                                                                                           | 0<br>0<br>10<br>10       | 010      | 0.0                      | 02 40.<br>07 40.                        |                      |          |                  |          |          |           |                    |          |          | -                    |            | 05 <.03<br>L5 <.005     |                                                                                                  |                                                                                                | 18 <.0         | 9        |
| II I         | 12 = 105<br>43 <.005      | 54 0.1                                | 04 0.0    | 0.0 884          |             | 34 0.0   | 57 0.0   | 83 ×.0    | 17 0.0      | 28 0.0              | 0.0        | 0'v 50               | 0.0      | 67 0.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.0 0.0                                        | 0.0<br>1 0.0 | 0. 2. 0          |          | ;;;<br>;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 17 0.0   | 0.0      | 00 0.0   |          | 0.0                                                                                           | 36 <0.0                               | 21 20-0  | 12 60.0   | 05 40.0            | 05 40.0           | 02 00.<br>00.00 | 05 <0.0            | 0,0<br>0,0                                     | 0.0        | 17 0.0                 | 1<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 | 59 40.0                  | 4        | 16 <0.0                  | 11 0.0                                  |                      |          |                  |          |          |           |                    |          |          | 08 0.0047<br>7 0.018 |            |                         |                                                                                                  | 20-0<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 9 0.0<br>9 0.0 | 0,0      |
| 1<br>98      | 10.5<br>2.0               | 1.0.1                                 | 1.0.1     | 01 0.05          | 1.0 10      | 1 0.2    | 1 0.3    | E 0 0     | 0.0         | 1 0.1               | 0.0        | 4 0.0                |          | 10.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.05                                           |              | 1.0              |          | 1 0.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 0.2    | 2001     |          | 7 0 T    | 10.10                                                                                         | 1 0.2                                 | 10.3     | 10.3      | 80.0               | 0.00              | 20.0            | 9.0≥ €0.0          | 5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 02 0 2     | E.0 SI                 | 02 0 4                                                                                           |                          | 4 0.2    | 10.1                     | 9 9 9                                   |                      |          |                  |          |          |           |                    |          |          |                      |            | 3 0.016<br>1 0.121      |                                                                                                  | ; • ; • ;                                                                                      | 0.30           | 1 40.0   |
| T 84-        | 10-> 1<br>7 <-01          |                                       |           |                  | •           |          |          |           |             |                     |            |                      |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |              |                  |          | 10'Y E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |          |          |          |                                                                                               |                                       |          |           | 30.16              | 2 0,36            | 7 0 0<br>1 0    | 3 0.40             | 3.0                                            |            | 0'00                   | 0.0                                                                                              | 0.0                      | 0.00     | 0.01                     | 0.00                                    |                      |          |                  |          |          |           |                    |          |          |                      |            |                         |                                                                                                  |                                                                                                |                |          |
| -18          | 16 = = 0/15<br>13 = 4.7   |                                       | 10,00     | 01 4.2           | 02 10       | 05 2.4   | 05 4     | 02<br>, 5 | 1           | 05 2.4              | 0 0<br>V V | 20                   | 03 0.1   | 5 5<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10.0                                           | 05 5         | 05 4             | 502      | 58<br>58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 05 3.1   | 500      | 10       |          | 05 4.1                                                                                        | 05 4.5                                |          | 05 5.1    | 0,0                | 000               | 0.0             | 2 0.0              | 0.0                                            | 05 4 6     | 05 4.7                 | 500                                                                                              | 6 5 6                    | 05 4.8   | 05 5.4                   | C - S - S - S - S - S - S - S - S - S - |                      |          |                  |          |          |           |                    |          |          |                      |            |                         |                                                                                                  | 1                                                                                              |                | ÷ .      |
| 33           | 1, mg/1.<br>3 <.03        |                                       |           |                  |             |          |          |           |             |                     |            |                      |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |              |                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |          |          |                                                                                               |                                       |          |           |                    | 5 10<br>5 10      | 05 6.           | 05 5.              | 5 C C C C C C C C C C C C C C C C C C C        | 02 40.0    | 15 <0.0                | 2000                                                                                             | 1 40.0                   | 02 <0.0  | 20.02 SC                 | 02 60.0                                 |                      |          |                  |          |          |           |                    |          |          |                      |            |                         |                                                                                                  | 6.03                                                                                           | •              |          |
| 100          | L 2.03                    |                                       |           |                  |             |          |          |           |             |                     |            |                      |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |              |                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |          |          |                                                                                               |                                       |          |           |                    |                   |                 |                    |                                                | 6 .0.<br>9 | EO.0 B                 | 0.0<br>0.0<br>0.0                                                                                | , 0, 0, 0, 0, 0, 0, 0, 0 | 3 40.0   | 4 0.00                   | 0.0.<br>1                               |                      |          |                  |          |          |           |                    |          |          |                      |            |                         |                                                                                                  | 2 4 - 54                                                                                       |                |          |
| -1-<br>      | /L mg/L                   |                                       |           |                  |             |          |          |           |             |                     |            |                      |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |              |                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |          |          |                                                                                               |                                       |          |           | 0 q                | ç ç               | 0               | ç.                 |                                                | 1 32       | 06 62.                 | 09 7J.                                                                                           | 06 20.                   | 04 24.   | 05 33.                   | 02 35.                                  |                      |          |                  |          |          |           |                    |          |          |                      |            |                         |                                                                                                  |                                                                                                |                |          |
| ė<br>L       | /L 14/L                   |                                       |           |                  |             |          |          |           |             |                     |            |                      |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |              |                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |          |          |                                                                                               |                                       |          |           | 01 44              | 01 40             | 10              | 01 ES              | 11 ×0.0                                        | 01 0.0     | 04 0.0                 | 00 00                                                                                            | 72 0.01                  | 22 0.04  | 0.0 10                   | 01 40.6                                 |                      |          |                  |          |          |           |                    |          |          | ~                    |            |                         |                                                                                                  | 05 <0.2                                                                                        |                |          |
| 4            |                           |                                       |           |                  |             |          |          |           |             |                     |            |                      |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |              |                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |          |          |                                                                                               |                                       |          |           |                    |                   |                 |                    |                                                | NO5 40.    | 104 0.4                | 001 00                                                                                           | 27-0<br>E0               | 104 0.2  | 02 0.(                   | 101 40.                                 |                      |          |                  |          |          |           |                    |          |          | ~                    |            |                         |                                                                                                  | .3 <0.05                                                                                       |                | •        |
| -T HI        |                           |                                       |           |                  |             |          |          |           |             |                     |            |                      |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |              |                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |          |          |                                                                                               |                                       |          |           |                    |                   |                 |                    |                                                | 0.0        | 5 0'0                  | 9<br>9<br>0                                                                                      | .0.0                     | 9.0 6    | 4 0.0<br>6 0.0           | 1 0.0                                   |                      |          |                  |          |          |           |                    |          |          |                      |            |                         |                                                                                                  | 05 <0.3                                                                                        |                |          |
| <b>a</b>     | 7 <b>C 100/L</b><br>02 9  |                                       |           |                  |             |          |          |           |             |                     |            |                      |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |              |                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |          |          |                                                                                               |                                       |          |           |                    |                   |                 |                    |                                                |            |                        |                                                                                                  | 58                       | 02 4.    | 03 5.                    | : <del>;</del>                          |                      |          |                  |          |          |           |                    |          |          |                      |            |                         |                                                                                                  |                                                                                                |                | •        |
| \$<br>•      | L 2012                    | 0.0<br>0 1<br>_ 2                     | 0.4       | 36 × 00          | 0. Å<br>. 0 | 6 × 0    | 0.0      | 0.0       | 3 4.0       |                     |            |                      |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |              |                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |          |          |                                                                                               |                                       |          |           |                    |                   |                 |                    |                                                |            | 9 <0,0                 | 0 0<br>0 0<br>0 0                                                                                | 0.0                      | 10-0 B   | 10.0<br>5.0.0            | ð.<br>0                                 |                      |          |                  |          |          |           |                    |          |          |                      |            |                         |                                                                                                  | 5.5                                                                                            |                |          |
| F Kt-        | 20.9                      |                                       | 0.0       |                  | 0.0         | 5 0.0    |          |           | 0.0         |                     |            |                      |          | 0.07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                |              |                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |          |          |                                                                                               |                                       |          |           |                    |                   |                 |                    |                                                |            | 0.0                    |                                                                                                  |                          | 0.02     | 0.0                      | 0.0                                     |                      |          |                  |          |          |           |                    |          |          |                      |            |                         |                                                                                                  | 10.05                                                                                          |                |          |
| 2            | 11. 9                     | - 40<br>- 40                          | 9.9       | 10.1             | 5 19        | 4 21.    | 32       | 29        |             |                     |            |                      |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |              |                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |          |          |                                                                                               |                                       |          |           |                    |                   |                 |                    |                                                |            |                        |                                                                                                  |                          |          | 3 28.5<br>6 33.2         |                                         |                      |          |                  |          |          |           |                    |          |          |                      |            |                         |                                                                                                  | 0.021                                                                                          |                | -        |
|              | L bg/L<br>0.006           |                                       |           |                  |             |          |          |           |             |                     |            |                      |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |              |                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |          |          |                                                                                               |                                       |          |           |                    |                   |                 |                    |                                                |            |                        |                                                                                                  |                          |          | 0.0                      | 0.00                                    | 8.0                  | 00. v    | 8.0              |          | 00'¥     | 00,4      | 00.7               | 00'0     | 0.00     | 00.0                 | 00 +       | 00                      | 0 12                                                                                             | 10.9                                                                                           | 0.02           | 25.9     |
| -7 T-        | /L <b>wg/L</b><br>28 3    | 60<br>61<br>61<br>61                  | 22        | 45 0.6<br>57 0.6 | 18 2        |          |          |           |             |                     |            |                      |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |              |                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |          |          |                                                                                               |                                       |          |           |                    |                   |                 |                    |                                                |            | 69 J.J                 | 99 1.5<br>05 0.9                                                                                 |                          |          | 94 1.3<br>71 1.6         | 16 1.4                                  | ⊽⊽<br>⊒-             |          | ⊽ 1<br>⊒ 2       | , - ,    | 12 80    |           | · ~                | 18 1     | 1 2 30   | 5 5                  | <b>r</b> - | - V -                   | 0 7<br>0 4                                                                                       | 97<br>77                                                                                       | र ल<br>इ.स.    | - V      |
| р.<br>Н      | 15 DE                     | 10 20                                 | 005 4.    | Z04 1.7          | 05 0.       |          |          |           | -           | ~ ~                 |            |                      |          | 015 0.09                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                |              |                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | _        |          |          | -        |                                                                                               | 200                                   | 12 0.0   | 002 0.    | 003 0.             | 0.<br>0.05        | 002 0.          | 1.0                | 07 0.3                                         | 12 0.2     | 016 0.1                | 116 0.1                                                                                          | 121 0.1                  | 1.0 25   | 123 0.094                | 14 0.2                                  | 1.0 0.1              | 1.1 20   | 8<br>8<br>8<br>8 |          |          |           |                    |          |          |                      |            |                         |                                                                                                  | 01 0.58                                                                                        | 12 0.1         |          |
| B<br>t       | 0.0 (1)                   | -0 - 50<br>0-10                       | 98 0.0    | 12 0.0           |             |          |          |           |             |                     |            | 05 0.021             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |              |                  |          | 05 <,002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |          |          |          |                                                                                               | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |          | 05 <0.    | 205 0.0<br>205 0.0 | 0.0               | 05 <0.          | 005 0.0            | 0.0                                            | 04 0.0     | 62<br>6<br>6<br>6<br>6 | 04 0.0                                                                                           | 0.0 20                   | 0.0 0.0  | 02 0.0                   | 0.0                                     | 18 0.0               | 28 0.0   | 27               |          |          |           |                    |          |          |                      |            | 000.0 20                |                                                                                                  |                                                                                                | 200<br>1       |          |
| -            | 1, mg/l                   | 2 12                                  |           |                  |             |          |          |           |             |                     |            |                      |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |              |                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |          |          |                                                                                               |                                       |          |           |                    |                   |                 |                    |                                                |            | 8<br>2<br>2            | 01 0.0                                                                                           | 0.0 10                   | 0'0 10   | 010 0.0                  | 0.0 10                                  | 10.15                |          |                  |          |          |           |                    |          | n S      |                      |            |                         | <br>                                                                                             | 1 <0.01                                                                                        | -<br>          |          |
| 5<br>S       | <b>₽</b> . <b>∀</b> (     | 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 10. > 10  | 00.0 10          | 0.0 20      | 0, 2,0   |          | 10.0      | 0.0 10      |                     | 10,2       | 0.2.0                | 10.0 LU  | 0 40 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10 10                                          | 01 <.0       | 5 × 0            |          | 10.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.0      |          | 10,5     | 01 <0.0  | 0.0 <0.0                                                                                      |                                       | 01 <0.0  | 01 0.01   | 0.05 10            | 0.05 10           | 01 <0.0         |                    | 2 <0.0                                         | 0.0        | 8<br>6<br>6<br>6       | 200                                                                                              | 2 0.0                    | e.0.0    | 2 <0.001                 | \$0.0                                   | 2 4.00               |          |                  |          |          |           | 2 4.00             |          |          |                      |            |                         |                                                                                                  | 1 <0.01                                                                                        |                |          |
| н<br>5<br>н  | , *.001                   |                                       | 90'× 9    | 00'% %           | 1 0.00      | 0.0      |          | 50        | 5 ×.0       | 22                  |            | 2.4                  |          | 0.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.05                                           | 5 <.00       | 202              | 50       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |          | <0,0>    | 0.0                                                                                           |                                       | 0.05     | 0.0 - 0   | 0,0<br>0,0<br>0,0  | 5 40.0            | 1 <0.0          | 0.0<br>0<br>0<br>0 | \$                                             | \$°.       | 1                      | ; ;                                                                                              | Ŷ                        | 0        |                          | 1.1                                     | 2003<br>4.002        |          |                  |          |          |           |                    |          |          |                      |            |                         |                                                                                                  | 100.05                                                                                         |                |          |
|              | L 209.7                   |                                       |           |                  |             |          |          |           |             |                     |            |                      |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                | 5 83.1       | 5 76             | 18 5     | 5 87.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 26.      | 5 23.5   | 5 47.1   | 35 65    | 15 52.                                                                                        | 5 99 ×                                | 5 70.    | 15 76.    | 15 87.5            | 10.10             | 15 104.         | 55 100.<br>F       |                                                | 11 54.1    |                        | 40<br>40<br>40                                                                                   | 2 51                     | 2 59.2   | 1 75                     | 11 76.:                                 |                      |          |                  |          |          |           |                    |          |          |                      |            |                         |                                                                                                  | 1 37                                                                                           |                |          |
| H-18         | 10 × 04                   | 0.0<br>10<br>10                       | 0. × . 10 | 10.5 20          | 01 <.0.     | 0, 4,0   |          | 11 *.0    | 0.2 10      |                     | ;;;<br>;;; | 010 10               | 22 4.0   | 01 ×0.05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6 6<br>6 6                                     | 0.> 20       | 02 × 0           | 10.2     | 0. > 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          | 12       | N *.0    | 7.0× 10  | 01 40,0                                                                                       | 1.0> 10                               | 01 40.0  | 01 40.4   | 0,03 10,04         | 0.05 10           | 01 40.C         | 01 40.4            | 0.0                                            |            |                        |                                                                                                  |                          |          | 2 0.01<br>2 40.01        |                                         | 01 ×.04              |          |                  |          |          | 07 × 07   | 1 .0               | 2 4.0    | 10. <.04 | 1                    | 0.0 I      |                         | 0<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0 | 05 <0.1                                                                                        | 0.0.1          | 05 50    |
|              | 1 <.001                   |                                       |           |                  |             |          |          |           |             | 15 0.001            |            |                      |          | 14 <0.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                |              |                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |          |          |                                                                                               |                                       |          | 100.05 20 |                    |                   |                 |                    |                                                |            |                        |                                                                                                  |                          |          | 18 60.2                  |                                         | 12 4.00<br>3 4.00    | 30 × 6   | 2 0 v            | 6 <.00   | 5 <.00   | 5 4.0C    | 00                 | 7 0.00   | 10 × 00  | 90.5                 | 30.3 E     |                         | 8<br>200<br>200<br>200<br>200                                                                    | 5 <0.005                                                                                       |                |          |
| 1996-999     | 10<br>11<br>10<br>11      | 5 0.13                                | EI.0 2    | 0.041<br>8 0.041 | \$ 0.15     | 5 0.13   | - T- T-  | 5 0.15    | 5 0.12      | 5 0-14<br>7 7 7 7   | 5 0.15     | 5 0.13               | 1 0.248  | 15 0.14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1 0.09                                         | 5 0.21       | 6 0.21<br>8 0.21 | 1 0.23   | 5 0.107                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |          |          |          |                                                                                               |                                       |          |           |                    |                   |                 |                    |                                                |            |                        |                                                                                                  |                          |          | 2 0.136<br>2 0.141       |                                         |                      |          |                  |          |          |           |                    |          |          |                      |            |                         |                                                                                                  | 0.06                                                                                           |                |          |
|              | 10 mg/20                  | 10 v<br>10 v                          | 02 × 0    | 00.0 1           | 15 × 0.     | 16 0.0   | 0 V V    | 5 4.0     | 15 ¢.0      | 0 v v<br>v v<br>0 o | 50 × ,0    | 0.0                  | 5 0.1    | 05 <0.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 207<br>207                                     | )5 <.0.      | 0,0 25           | 17 0.08  | 55 A.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          | 10.0     | 8 0.0    | 05 <0.0  | 1 C 8                                                                                         | 10 - 10 - 10<br>11 - 10 - 10          | 0.0 <0.0 | 05 <0.0   | 0.05 20.0          | 0.0 20            | 05 0.0          | 02 40.0            | 03 <0.0                                        | 03 0-0     |                        |                                                                                                  |                          |          | 03 0.12<br>19 0.12       |                                         |                      |          |                  |          |          |           |                    |          |          |                      |            |                         |                                                                                                  | 5 4.05                                                                                         |                |          |
|              | 10 × 005                  |                                       |           |                  |             |          |          |           |             |                     |            |                      |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.02                                           | 1 <.00       | 20.02            | 22 0.03  | 5 <,005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 202      |          | 5 0.01   | 7 <0.0   | 0.0<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 |                                       | 8 <0.0   | 0.0       | 20.02              | 0.02              | 6 <0'0          |                    | 0.0× E                                         | 0.0. 21    |                        |                                                                                                  |                          |          | 6 0.009                  |                                         |                      |          |                  |          |          |           |                    |          |          |                      |            |                         |                                                                                                  | 7 <0.2<br>8 <.005                                                                              |                |          |
| 7. XL-1      | 00 0 13<br>0 13           | 10.0                                  | 23 2.5    | 01 0.06          | 0.1.0       | 03 0 2   | 21.0 EC  | 33 0.2    | C 0 0       | 210 50              | 1.1.1      | E 0 E0               |          | 1.0 001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 11 <0.0                                        | 1.0 50       | 0'* E0           | 0.32     | 0.0 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |          | 33 0.2   | 1.0 50   | 100                                                                                           | n 1 0 10                              | 0.0 00   | 0.0 10    | 0.05 10            | 01 0.0            | 0 0 10          | 0.0 10             | 2 0.21                                         | 0.13       | 1.0 1                  | 0.06                                                                                             | 2 0.12                   | 5 0.1    | 2 0.069                  | 2 0.05                                  | 03 0.08              |          | 20. × 20         |          |          |           |                    |          |          |                      |            |                         |                                                                                                  | 0.37                                                                                           |                |          |
| 343855       | 00. × 9                   | 587<br>787                            | 9°°°      | 88.9             | 39 ×.0(     | 5 ° °    |          | 3 ×.DC    | х<br>•<br>• | 50,4                | 30° × 00   | 0.<br>20.2<br>20.0   | C        | 0.0.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | , 9, 9, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, | 1 *.00       | 10" × -0         | 1 4.00   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10.4     | 1 *.00   | 1 <.00   | 0.0      | 0.0                                                                                           |                                       | 0.05     | 0.00      | 20.0<br>20.0       | 2 <0.0            | 0°0             |                    | . o.                                           | 2 0.5      |                        | - 9.9<br>                                                                                        | 2 <0                     | 5 0 2    | 12 60.                   | 2 °0.                                   | 00.≯<br>00.≯         | 00'> E   |                  | \$ ×.00  | 90 · > 6 |           | ۰.00<br>۲          | , <. OC  | 10.5     | 00.> 61              | 88         |                         | 3.0                                                                                              | 0.01 0<br>4.003                                                                                | 0.01           |          |
| ate          | 23/03/95                  | 18/05/95                              | 20/06/95  | 56/80/06         | 12/10/195   | 14/12/95 | 23/03/00 | 27/04/00  | 15/05/01    | 25/07/00            | 29/08/00   | 12/9/200<br>36/09/00 | 29/10/00 | 10/11/E1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 14/12/00                                       | 10/10/61     | 5/3/200          | 10/3/200 | 16/04/01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 10/00/61 | 17/06/01 | 14/07/01 | 14/08/01 | 8/9/2001                                                                                      | 15/10/01                              | 10/11/E1 | 14/12/01  | 12/2/200           | 12/3/200          | 21/03/07        | 13/05/02           | 16/06/02                                       | 25/06/02   | 10/00/01               | 16/09/02                                                                                         | 20/60/12                 | 15/10/02 | 12/11/2002<br>10/12/2002 | 15/12/02                                | 17/03/96<br>14/04/98 | 36/50/6T | 21/07/98         | 15/09/98 | 36/01/61 | J1/112/98 | 20/04/95           | 18/05/95 | 29/07/99 | 2/10/199             | 27/04/00   | 20/06/00                | 29/08/00                                                                                         | 26/09/00<br>29/10/00                                                                           | 13/11/00       | 14/12/00 |
| Distion Date |                           |                                       |           |                  | -4          |          |          |           |             |                     |            |                      |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |              |                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |          |          |                                                                                               |                                       |          |           |                    |                   |                 |                    |                                                |            |                        |                                                                                                  |                          |          |                          | VCBATN                                  |                      |          |                  |          |          |           |                    |          |          | ч                    |            |                         |                                                                                                  |                                                                                                |                |          |

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Vangerda Plateau Total Metals

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| 29/05/98<br>22/05/98<br>14/09/98<br>18/05/99<br>18/05/99<br>29/07/99<br>22/07/99<br>22/07/06/00<br>22/92/00<br>12/9/2000<br>12/9/2001<br>25/05/00<br>12/92/00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| <ul> <li>.02</li> <li>.02</li> <li>.02</li> <li>.02</li> <li>.02</li> <li>.005</li> /ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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<li>&lt;0.2</li> <li>&lt;0.2</li> <li>&lt;0.2</li> <li>&lt;0.02</li> <li>&lt;0.025</li> <li>&lt;0.025</li> <li>&lt;0.022</li> <li>&lt;0.003</li> <li>&lt;0.022</li> <li>&lt;0.003</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| 6.3<br>12.8<br>16.4<br>16.4<br>16.7<br>9<br>10.7<br>9<br>10.7<br>9<br>14.7<br>9<br>21.7<br>8<br>21.7<br>8<br>21.7<br>8<br>22.5<br>7<br>8.2<br>8.2<br>8.2<br>8.2<br>8.2<br>8.2<br>8.2<br>8.2<br>8.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 0.033<br>0.027<br>0.027<br>0.227<br>0.227<br>0.227<br>0.227<br>0.227<br>4.000<br>2.000<br>2.000<br>2.000<br>2.005<br>4.005<br>4.005<br>4.005<br>0.182<br>0.182<br>0.182                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| 0.01<br>0.021<br>0.021<br>0.024<br>0.024<br>0.0261<br>0.0261<br>0.0261<br>0.007<br>0.007<br>0.007<br>0.007<br>0.007<br>0.007<br>0.007<br>0.007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 0.53<br>0.01<br>0.07<br>0.5<br>0.15<br>0.13<br>0.13<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.26<br>1.37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 0.032<br>0.075<br>0.197<br>0.197<br>0.153<br>0.0454<br>0.0703<br>0.0703<br>0.111<br>0.218<br>0.0218<br>0.0218<br>0.0218<br>0.0218<br>0.0218                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 0.012<br>0.007<br>0.007<br>0.011<br>4.005<br>0.012<br>4.005<br>0.012<br>4.005<br>0.012<br>4.005<br>0.012<br>4.005<br>0.012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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                                                                                                                                                                                                                                                                                    | <ul> <li>4.002</li> <li>4.002</li> <li>4.002</li> <li>4.002</li> <li>4.003</li> <li></li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 0.09<br>0.05<br>0.04<br>0.04<br>0.02<br>0.02<br>0.02<br>0.02<br>0.02<br>0.02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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Vangorda Plateau Site - Select Burface Water Quality Listing, 1998 to 2002, Total Metals

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Vangorda Plateau Site - Belect Surface Mater Queilty Listing, 1998 to 2002, Dissolved Metals

| Ą                             | ę            | <pre>&lt;.01 &lt;.01 &lt;.01 &lt;.01 &lt;.01 &lt;.01 &lt;.001 &lt;.002 &lt;.003 &lt;.001 &lt;.01 &lt;.01 &lt;.01 &lt;.01 &lt;.01 0.02 0.00 0.00 </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 4-04                          | 17/Dec       | 0.014<br><.002<br><.002<br><.0002<br><.000<br>0.0002<br><.002<br><.002<br><.002<br><.002<br>0.001<br>4<br>4<br>4<br>0.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| Q-194                         | - 17 (Ba     | <pre>&lt;,01<br/>&lt;,01<br/>&lt;,01<br/>&lt;,000<br/>&lt;,000<br/>&lt;,010<br/>&lt;,01<br/>&lt;,01</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| <u>م-</u> 2                   | 17/8a        | <pre>^.002<br/>0.007<br/>0.007<br/>0.001<br/>0.001<br/>0.002<br/>0.002<br/>0.012<br/>0.012<br/>0.012<br/>0.012</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| Q-12                          | -1/b         | <pre>*.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 *.005 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| CO-D                          | -<br>4)      | 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| 4.01<br>4.01<br>4.01<br>4.01<br>4.00<br>4.00<br>4.00<br>4.01<br>4.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <ul> <li>4.01</li> <li>0.54</li> <li>0.03</li> <li>0.16</li> <li>4.01</li> <li>4.01</li> <li>4.01</li> <li>4.01</li> <li>4.01</li> <li>0.16</li> <li>0.66</li> <li>0.066</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| ZK-D                   | 0.016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.029                              | 0.124<br>0.05<br>0.019             | 0.037                  | 10. ×                                  | 0.03                                              | <.0004<br><.01<br><.01             | 1 1 2          | 0.02           | 0.02<br>0.02         | 0.01                             | 0.01<br>4.01   | <, 01<br><.01        | •.01<br>•.03     | 0.02                  | 60,03<br>0,01 | 40.01             |                       | 0.054                | 0.056<br>0.047        | 0.028<br>0.089<br>0.036                                                                     | 0.07                                                                                                                                                                                                                                                                                                                        | 0.72<br>0.16<br>0.16    | 0.1<br>0.28<br>0.15                   | E0.0                                                    | 0.02            | 0.05<br>0.02<br>0.01     | <0.01<br>0.04      | 0.094<br>0.144            | 0.09                 |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------------------|------------------------|----------------------------------------|---------------------------------------------------|------------------------------------|----------------|----------------|----------------------|----------------------------------|----------------|----------------------|------------------|-----------------------|---------------|-------------------|-----------------------|----------------------|-----------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------------|---------------------------------------------------------|-----------------|--------------------------|--------------------|---------------------------|----------------------|
| 1/2                    | ត <u>ុ</u> ត្                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6.0<br>6.0<br>6.0                  | ខុខខ                               | 33                     | 50.5<br>50.5                           |                                                   |                                    |                |                | <.03<br>*0.03        | <.03                             | 5.03<br>20.2   | 60.v                 | :0.v             | 60.03<br>60.03        | 60.03         | E0.0              |                       | 8                    | ខូខ                   | 6.03<br>6.03<br>6.03                                                                        | 6 88                                                                                                                                                                                                                                                                                                                        | 8.0                     | 899<br>899                            | <.03                                                    |                 | 5<br>5                   |                    |                           | 88                   |
| -1/5<br>0.03           | 0.00.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                    |                                    |                        |                                        |                                                   |                                    | £.03           |                | . 800. o             | 500.0                            | 0.033          | <005<br>0.008        | ¢.005            | 0.005                 | 0.005         | 500.0             | 0.03                  |                      |                       | 100.0×                                                                                      |                                                                                                                                                                                                                                                                                                                             |                         | <.005                                 | <005                                                    |                 | 200.05<br>200.05         |                    |                           |                      |
| A + 8                  | 60.03<br>60.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 100                                | ត្តី ត្រូត                         | 122                    |                                        |                                                   |                                    | 500.2          |                | 500.0                | . 005                            | . 005          | 200                  | 200              | - 500.0               | × 500.0       | 500.0             | 6.6                   | 0.03                 | * 100'0               | 40.001<br>40.001<br>40.001                                                                  | 014                                                                                                                                                                                                                                                                                                                         |                         | 0.01<br>0.01<br>0.01                  |                                                         |                 | - 005<br>0.008<br>- 005  |                    |                           |                      |
|                        | 60.005 4<br>0.135 4<br>0.225 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    |                                    |                        | - 439<br>- 70E.                        | 500.<br>200.                                      | 0 8530 0<br>• 169 •                | 500 E0         | 110            | 301                  |                                  |                |                      |                  |                       |               |                   |                       |                      |                       | 0.162 < 0.215 < 0.215 <                                                                     |                                                                                                                                                                                                                                                                                                                             |                         | 0.257                                 |                                                         |                 |                          |                    |                           |                      |
|                        | <pre>&lt;0.005 &lt;0 &lt;0.002 0 &lt;0.004 0 </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                    |                                    |                        |                                        |                                                   |                                    |                |                |                      |                                  |                |                      |                  |                       |               |                   |                       |                      |                       | <pre>&lt;0.002 0 &lt;0.002 0 0.004 0</pre>                                                  |                                                                                                                                                                                                                                                                                                                             |                         | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |                                                         |                 |                          |                    |                           |                      |
| \$27.00XXX127          | 0,0,4,4,0<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,8,4<br>10,-1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1, |                                    |                                    |                        |                                        |                                                   |                                    |                |                |                      |                                  |                |                      |                  |                       |               |                   |                       |                      |                       | 8.4<br>1.2<br>0.0<br>0.0<br>0.0<br>0.0                                                      |                                                                                                                                                                                                                                                                                                                             |                         | <br>                                  | -                                                       |                 |                          |                    |                           |                      |
| <u>و</u> بع            | 3.8<br>0.005<br>0.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 500                                | 200<br>005                         | 005                    |                                        |                                                   |                                    |                |                |                      |                                  |                |                      |                  |                       |               |                   |                       |                      |                       | <0.005<br><0.005<br><0.005                                                                  |                                                                                                                                                                                                                                                                                                                             |                         | 2002<br>2005                          |                                                         |                 |                          |                    |                           |                      |
|                        | 60.005<br>60.002<br>60.002<br>60.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                    |                                    |                        |                                        |                                                   |                                    |                |                |                      |                                  |                |                      |                  |                       |               |                   |                       |                      |                       | <ol> <li>40.002</li> <li>40.002</li> <li>40.002</li> <li>40.002</li> </ol>                  |                                                                                                                                                                                                                                                                                                                             |                         | 999<br>999                            |                                                         |                 |                          |                    |                           |                      |
| 1200 Contra            | 6.15<br>6.15<br>6.15<br>6.15<br>6.15<br>6.15<br>6.15<br>6.15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                    |                                    |                        |                                        |                                                   |                                    |                |                |                      |                                  |                |                      |                  |                       |               |                   |                       |                      |                       | 19.3 6<br>26.2 6<br>32.5 60                                                                 |                                                                                                                                                                                                                                                                                                                             |                         | 463                                   |                                                         |                 |                          |                    |                           |                      |
|                        | 0 006<br>0 006                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    |                                    |                        |                                        |                                                   |                                    |                |                |                      |                                  |                |                      |                  |                       |               | -                 |                       | -                    |                       | <0.002<br><0.002                                                                            |                                                                                                                                                                                                                                                                                                                             |                         | 555                                   |                                                         |                 |                          |                    |                           |                      |
| 50000 Stores &         | 0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                    |                                    |                        |                                        |                                                   |                                    |                |                |                      |                                  |                |                      |                  |                       |               |                   |                       |                      |                       | 0.03                                                                                        |                                                                                                                                                                                                                                                                                                                             |                         | 7~~                                   |                                                         |                 |                          |                    |                           |                      |
|                        | <0.01<br><0.001<br>0.004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                    |                                    |                        | <.005<br><.005                         | 4,005<br>4,005                                    | 0.00<br>200.5                      | 4,005<br>4,005 | 0.012<br>40.3  | <005<br><0.005       | 4,005<br>4,005                   | <.005<br>0,015 | 500.>                | <. 005<br><. 005 | <0.005                | <0.005        | <0.01<br>0.01     | 10.05                 | <0.01<br><0.001      | 0.004                 | <pre>&lt;0.001 </pre>                                                                       | 0.011                                                                                                                                                                                                                                                                                                                       | 0.007                   | <pre>&lt;.005 0.021 0.011</pre>       | 40.3<br>4.005<br>6.3                                    | <0.05           | 200.×<br>200.×           | <0.005<br><0.005   | 6.001<br>6.004            | 0,004                |
|                        | 0.019<br>3.5<br>3.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                    |                                    |                        |                                        |                                                   |                                    |                |                |                      |                                  |                |                      |                  |                       |               |                   |                       |                      |                       | 2.4<br>4.7<br>8.8                                                                           |                                                                                                                                                                                                                                                                                                                             |                         | ი <b>ე</b> კე და                      |                                                         |                 |                          |                    |                           |                      |
|                        | 4<br>0,001<br>0,004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 60.001<br>0.002                    | 0.002<br>•0.001<br>0.002           | 0.003                  | 0.005<br>4.002                         | 0.01                                              | <, 0001<br><, 002                  | .002           | 200 ç          | <.002<br><0.002      | <0.05<br><0.05<br>0.022          | <.002<br>0.012 | <.002                | 0.005<br>4.002   | <0.002<br>60.002      | ¢0.002        | 0.004             |                       |                      |                       | 0.001<br><0.001<br>0.002                                                                    |                                                                                                                                                                                                                                                                                                                             |                         | •.002<br>•.002<br>•.002               |                                                         |                 |                          |                    |                           |                      |
|                        | •0.012<br>0.021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                    |                                    |                        | 10. 4                                  | 0.06                                              |                                    |                |                |                      |                                  |                |                      |                  |                       |               |                   | 0.003                 |                      |                       | 0.012                                                                                       |                                                                                                                                                                                                                                                                                                                             |                         | 0.08<br>0.14<br>0.05                  |                                                         |                 |                          |                    |                           |                      |
| 影动的现在分                 | 0.05<br>10.7<br>16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                    |                                    |                        |                                        |                                                   |                                    |                |                |                      |                                  |                |                      |                  |                       |               |                   |                       |                      |                       | 13.1<br>18.3<br>23.5                                                                        |                                                                                                                                                                                                                                                                                                                             |                         | 11.6<br>6.5<br>9.9                    |                                                         |                 |                          |                    |                           |                      |
| 64-D                   | 0.009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.003                              | 0.005<br>0.005<br>0.004            | 0.006                  |                                        |                                                   |                                    |                |                |                      |                                  |                |                      |                  |                       |               |                   |                       |                      |                       | 0.004<br>0.005<br>0.004                                                                     |                                                                                                                                                                                                                                                                                                                             |                         | <, 005<br><, 005                      |                                                         |                 |                          |                    |                           |                      |
| Service of the         | 2<br>1,5<br>1,5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                    |                                    |                        |                                        |                                                   |                                    |                |                |                      |                                  |                |                      |                  |                       |               |                   |                       |                      |                       | 122                                                                                         |                                                                                                                                                                                                                                                                                                                             |                         | M M 4                                 |                                                         | _               |                          |                    |                           |                      |
| 4- <b>24</b>           | 0.19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.031                              | 0.041<br>0.038<br>0.028            | 0.064                  | 10. *                                  | 4.01<br>0.13                                      | 0.02<br>0.02                       | 0.08           | 10.v<br>10.v   | 0.2                  | 0 7 9<br>9                       | 10.7<br>10.7   | 10.2<br>0.01         | 1.0              | 10.05                 | 0.01<br>10.02 | 10.05             | 10.05                 | 0.08                 | <0.002<br>0.012       | 0.022<br>0.013<br><0.002                                                                    | 0,04<br>2,71                                                                                                                                                                                                                                                                                                                | 0.92                    | 0.1<br>0.28<br>0.54                   | 0.12<br>0.22<br>0.01                                    | ç <sup>;</sup>  | 0.23<br>0.01             | 10.0<br>0.0<br>0.0 | 40.01<br>0.151<br>0.076   | 0.014                |
| 60,002                 | 0.004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.018                              | 0.018<br>0.024<br>0.029            | 0.024                  | 0.005<br>0.009                         | 0.003                                             | 0.0054<br><.002<br>0.006           | 0.007<br>4.002 | 40.01<br>40.02 | 0.013<br><0.002      | 10.05<br>0.018                   | 0.017<br>0.026 | 0.006                | <.002            | 0.006                 | <0.002        | 40.002<br>40.002  | <0.002                | <0.002<br>0.014      | 0.018                 | 0.018<br>0.031<br>0.014                                                                     | 0.024                                                                                                                                                                                                                                                                                                                       | 0.011<br>0.012<br>0.012 | 0.009<br>0.009<br>4.002               | <ol> <li>40.02</li> <li>0.015</li> <li>40.01</li> </ol> | 40.01<br>0.003  | 0.023<br>0.005<br>0.007  | 0.003<br>\$0.002   | 0.018                     | 0.017                |
| 9-10<br>2/2<br>20:05   | 0.007<br>•0.001<br>0.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.005                              | 0.004                              | <0.001<br><0.001       | 500' ×                                 | <ul><li>4.005</li><li>2001</li><li>2005</li></ul> | <.002<br><.005                     | 500.5          | 500.5<br>50.01 | <005<br><0.005       | <pre>&lt;0.01 </pre>             | <.005<br>0.009 | <.005<br>0.005       | <.,005           | 0.006<br>40.005       | 0.007         | 0.005             | <0.005                | <0.005<br><0.001     | 0.002                 | <pre>&lt;0.001<br/>0.003<br/>0.004</pre>                                                    | 200.4<br>2005<br>2005                                                                                                                                                                                                                                                                                                       | 4.005<br>4.005          | 4.005<br>4.005                        | <0.01<br>0.012<br><0.01                                 | <0.01<br><.005  | <.005<br><.005<br><0.005 | <0.005<br><0.005   | 40.003<br>40.001<br>0.012 | 0.012                |
|                        | 60.001<br>60.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                    |                                    |                        | <.005<br><.005                         | 200.5                                             | <.0002<br><.005                    | 500.4          | <0.01<br><0.01 | <. 005<br><0.005     | 60.01<br>60.01<br>6.005          | <005<br><.005  | <.005<br>0.023       | < 005            | \$00.05               | <0.005        | 0.005             | <0.005                | <0.005               | 0.002                 | <0.001<br><0.001<br>0.001                                                                   | 2005<br>2,005                                                                                                                                                                                                                                                                                                               |                         | 200.<br>2000<br>2000<br>2000          |                                                         |                 |                          |                    |                           |                      |
|                        | 60.001<br>60.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    |                                    |                        | 100.*                                  | 100.5                                             | <, 001<br><, 001<br><, 001         | 100.7          | 100.9          | <.001<br><0.001      | 100.01<br>100.01                 | <.001<br>0.005 | 100. >               | <,001 ×          | 100.02                | 40.001        | 100.05            | <0.004<br>0.004       | 0.001                | 0.5<br>0.5            | 60.2<br>60.2<br>60.2                                                                        | <ul><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li></ul> | 0.004<br>0.007<br>4.001 | <,001<br>0,002<br><,001               | <0.001<br><.001<br><0.001                               | <0.01<br><.001  | 100'9                    | 100.05<br>60.001   | 40.001<br>0.2<br>0.5      | <0.2<br>0.4          |
|                        | 47.2<br>59.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                    |                                    |                        |                                        |                                                   |                                    |                |                |                      |                                  |                |                      |                  |                       |               |                   |                       |                      |                       | 41.3<br>53.3<br>68.2                                                                        |                                                                                                                                                                                                                                                                                                                             |                         | 46.7<br>30.2<br>28.6                  |                                                         |                 |                          |                    |                           |                      |
| BT-D<br>10/12<br>10/05 | 6.02<br>6.01<br>6.01<br>6.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 11.0                               | 0.01<br>0.02<br>0.02               | 0.01                   | <.04<br><.04                           | 50°.                                              | 100''<br>* 04                      | 50,5           | 6.5<br>5.7     | ¢.05<br>¢0.05        | 72.2<br>76.5<br>4,05             | <, 05<br>20, 5 | <.,05<br><.,05       | <.05<br><.05     | <0.05<br><0.05        | <0.05<br>0.05 | , ç, ç<br>2, 3, 5 | 40.05<br>40.05        | <0.05<br><0.01       | 40.01<br>40.01        | 40.01<br>40.01                                                                              | 10 × 0                                                                                                                                                                                                                                                                                                                      | 5 0 V                   | •.05<br>•.05                          | <0.1<br><,05<br><0.1                                    | 55 °S           | 20.05<br>20.05<br>20.05  | 60.05<br>60.05     | 60.02<br>0.02<br>60.01    | 10.02                |
| 100.05<br>2011         | *0.001<br>0.2<br>0.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2 0 0<br>7 0 0<br>7 0              | - 0 0<br>- 0 0                     | 0.3<br>6.2             | 100's                                  | 0.002                                             | 0,0001<br><,001<br><,001           | 100.4          | *.001<br>*.001 | 0.001<br>≺0.001      | 40.1<br>40.1                     | 0.001          | 100.3                | 4,001            | <0.001<br><0.001      | +0.001        | 100.05            | 100.05                | <0.05<br><0.2        | 0.2                   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.002<br>4.001                                                                                                                                                                                                                                                                                                              | 100's                   | 0.001<br>4.001<br>100.4               | <0.005<br><0.001<br><0.005                              | 4.00.1<br>100.2 | 100.0                    | 40.001<br>40.001   | 50.2<br>0.6               | 0.6                  |
| <b>81-1</b><br>0.128   | 0.11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.09                               | 0,11<br>0,126<br>0,105             | 0.117                  | 0,04                                   | 0.03                                              | 0.0145<br>0.024<br>0.03            | 0.026          | 0,011          | 0.033                | <0.005<br><0.005<br>0.034        | 0.026<br>0.16  | 0.134                | 0,088            | 0.128                 | 0.117         | 0.083             | 0.125                 | 0.141                | 0.098                 | 0.157<br>0.123<br>0.099                                                                     | 0.14<br>0.039<br>0.058                                                                                                                                                                                                                                                                                                      | 0.036<br>0.085<br>0.028 | 0.058<br>0.031<br>0.042               | 0.06<br>0.035<br>0.07                                   | <0.05           | 0.189<br>0.092<br>0.142  | 0.121              | 0.163                     | 0.054                |
| 8-D<br>10-8            | 0.08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60.05<br>0.13                      | 0.14<br>14.0                       | 0.09                   | <ul><li>.05</li><li>.05</li></ul>      | 20.02<br>20.05                                    | 20.0<br>20.1                       | 5 5 5          | 5 5 7          | <0.05<br><0.05       | 0-0<br>0-0<br>0-0<br>0-0         | 4.05<br>0.06   | 2, 05<br>2, 05       | 20.0             | <0.05<br><0.05        | 0.1           | 40.05             | ¢0.05                 | ¢0.05                | *0.05<br>*0.05        | 0.12<br>0.12<br>0.12                                                                        | 4.05<br>4.05                                                                                                                                                                                                                                                                                                                | 0.59<br>0.06<br>4.05    | 2,05<br>2,05                          | 60.1<br>6.05                                            | 0.06            | 0.0<br>0.0<br>20.0       | <0.05<br>0.11      | 0.0<br>20.0               | 0.68                 |
|                        | 0,005<br>0,009<br>0,009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                    |                                    |                        |                                        |                                                   |                                    | 500 v          |                |                      |                                  |                |                      |                  |                       |               |                   |                       |                      |                       | <0.003<br><0.003<br>0.007                                                                   |                                                                                                                                                                                                                                                                                                                             |                         | <.005<br><.005<br><.005               |                                                         |                 |                          |                    |                           |                      |
|                        | 0.08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                    |                                    |                        |                                        |                                                   |                                    |                |                |                      |                                  |                |                      |                  |                       |               |                   |                       |                      |                       | 0.074                                                                                       |                                                                                                                                                                                                                                                                                                                             |                         | 0.09<br>0.07<br>0.8                   |                                                         |                 |                          |                    |                           | 0.056                |
|                        | <0.001<br>0.2<br><0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                    |                                    |                        | <ol> <li>,003</li> <li>,003</li> </ol> | <ul> <li>003</li> <li>003</li> <li>003</li> </ul> | 1000.*<br>1000.*                   | 100.7          | 001<br>.001    | E00.05               | <0.05<br><0.05<br><.003          | <,003<br><,003 | ¢,003                | £00. >           | <0.05<br>0.05<br>0.05 | <0.003        | 60.001            | 40.001<br>40.001      | ≮0.001<br><0.2       | 0.9<br>0.7            | 0.4<br>0.4                                                                                  | 0.04<br><.003<br><.003                                                                                                                                                                                                                                                                                                      |                         |                                       |                                                         |                 |                          |                    |                           | 0.0                  |
| Date<br>15/04/02       | 13/05/02<br>16/06/02<br>25/06/02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12/8/2002<br>12/8/2002<br>16/09/02 | 27/09/02<br>15/10/02<br>12/11/2002 | 10/12/2002<br>15/12/02 | 31/12/98<br>20/04/99                   | 18/05/99<br>20/06/99                              | 29/07/99<br>12/10/1999<br>27/04/00 | 20/06/00       | 29/06/00       | 29/10/00<br>13/11/00 | 18/11/00<br>14/12/00<br>13/01/01 | 10/2/2001      | 16/04/01<br>14/05/01 | 17/06/01         | 14/08/01              | 10/01/51      | 14/12/01          | 12/2/2002<br>15/04/02 | 13/05/02<br>16/06/02 | 16/07/02<br>12/8/2002 | 16/09/02<br>15/10/02<br>12/11/2002                                                          | 10/12/2002<br>31/05/98<br>18/05/99<br>27/05/99                                                                                                                                                                                                                                                                              |                         |                                       |                                                         |                 |                          |                    |                           | 9/7/2002<br>16/07/02 |
| Station Date<br>15/04  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                    |                                    |                        | NINHON                                 |                                                   |                                    |                |                |                      |                                  |                |                      |                  |                       |               |                   |                       |                      |                       |                                                                                             | 4685EV                                                                                                                                                                                                                                                                                                                      |                         |                                       |                                                         |                 |                          |                    |                           |                      |

Page 3 of 4

Vangorda Plateau Dissolved Metals

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| ы н               | 5                       | 33       | ž        | 52       | 68         | Ħ        | 7        | R        | 04       | 2          | 2                        |              | 8                     | 2        | 24       | 2 |
|-------------------|-------------------------|----------|----------|----------|------------|----------|----------|----------|----------|------------|--------------------------|--------------|-----------------------|----------|----------|---|
| 1986-96 C         | 700.0 E0                |          |          |          |            |          |          | 0.02     |          |            |                          |              |                       |          |          |   |
| 604 (Sec.)        | 2 40.03<br>4 40.03      | -        |          |          |            |          |          | 02 <.001 |          |            |                          |              |                       |          |          |   |
| SEAMERS           | 0,002                   | -        | -        |          |            |          |          | 1 <.0002 | _        |            |                          |              |                       |          |          |   |
| 17-D<br>1/2       | 40.001<br>0.005         | <0.001   | <00'0>   | <0.00    | <0.001     | 4.005    | \$00. *  | 0.0024   | 0.0014   | < 005      | <005                     | <.005        | <.005                 | <. 005   | <0.001   |   |
| 58-D<br>1/24      | 1.04                    | 1.188    | 0.675    | 0.697    | 0.459      | 0.197    | 0.052    | 0.0637   | 0.0592   | 0.123      | 0.22                     | 0.048        | 0.087                 | 0.043    | 0.219    |   |
| 0-100<br>0-100    | <0.002<br><0.002        | 0.002    | 0.002    | 0.002    | 0.002      | 10.*     | 10. *    | : 0004   | . 0004   | ×.01       | <.01                     | <.01         | <.01                  | ×.01     | 0.003    |   |
| 2001200           | ~ ~<br>~ ~              |          | 4.8<br>• | ۰<br>س   | 6.6        | 3.5      | 1.3      | 4.64     | 8.119 -  | m          | 4.5                      | 2.2          | 2.8                   | 1.1      | 4        |   |
| 1/54              | <0.005                  | :0.005   | :0.005   | :0.005   | <0°.005    | ×.03     | ₹.03     | <.001    | <001     | <005       | <. 005                   | <.005        | <, 005                | <005     | ¢0.005   |   |
|                   | 0.005 -                 |          |          |          |            | C0.4     | ¢.03     | <.001    | <.001    | ¢.03       | ¢.03                     | £.03         | <.03                  | ¢.03     | 0.005    |   |
| 10.0328662638     | 260.3 4                 |          |          |          |            | 19       | ~        | 9.9      | 5.43     | 6          | 17                       | ~            | 12                    | ŝ        | 44.2     |   |
|                   | E00.0                   |          |          |          |            | ¥.01     | 4.01     | <.001    | <.001    | 10.5       | ¢.01                     | 10.4         | 10.5                  | 10.*     | 0.002    |   |
|                   | 6.03<br>19.05           |          |          |          |            |          |          | <.002    |          |            |                          |              |                       |          |          |   |
| 9-14<br>2/2       | 0.005                   | 0.004    | E00.0    | E00'0    | 0.007      | <005     | <.005    | 0.001    | 0.0003   | <. 005     | <005                     | <.005        | <.005                 | <.005    | 0,003    |   |
| 4-10<br>4-10      | 9.4                     | 5        | 6.7      | 8.7      | 9.1        | m        | 2        | 1.2      | 2.31     | ~          | ~                        | ~            | m                     | ~        | 2.5      |   |
| 1-04<br>1-04      | ¢0.001<br>0.001         | 100.03   | 0.003    | 100.0:   | 0.001      | <.002    | <.002    | <.0001   | 1000.0   | <.002      | <.002                    | <b>€,002</b> | <.002                 | E00.0    | 0.002    |   |
| Cold Section      | 0.066 .<br>0.098        |          |          |          |            |          |          | 0.003    |          |            |                          |              |                       |          |          |   |
| 40-D<br>1/2       | 45.4                    | 45.3     | 32.9     | 32.5     | 24.3       | 10       | E.1      | 2.49     | 3.21     | 4.7        | 10.8                     | 1.6          | 6.3                   | 2,8      | 10.9     | , |
|                   | €0.001<br>0.002         | 100.0    | 100'0    | 0.002    | 200.0      | c. 005   | c.005    | 0002     | <.0002   | c. 005     | c, 005                   | <.005        | 0.112                 | د. 005   | 9.004    |   |
| 225335555         | 4 <u>;</u> ;            |          |          |          | -          | ů        | đ        | °.       |          | ÷          | ň                        | 4            | 4                     |          | 11       |   |
| 9-22<br>2-22      | 0.096                   | 0.033    | ¢0,002   | 0,027    | 0.02       | <.01     | 0.08     | 0.015    | <.001    | 0.06       | •,01                     | 0,15         | 0.04                  | 0.09     | 0.033    |   |
| 9/12<br>9-12      | 0.034                   | 0.011    | 0.023    | 0.031    | 0.029      | 0.01     | <.002    | 9.000 °C | 0.0018   | <.002      | <. 002                   | <.002        | <002                  | 0.002    | 0.015    |   |
| CR-D<br>#4/L      | 0,005                   | 100.03   | 100.03   | 100.0:   | 0.008      | <005     | <.005    | <.0002   | 0002     | <.005      | <.005                    | <.005        | 0.049                 | <.005    | 0.002    |   |
|                   | 0,003                   |          |          |          |            |          |          | <.0002 · |          |            |                          |              |                       |          |          |   |
| ESSNER STOR       | 00<br>7.0<br>0.0        |          |          |          |            | <.001 -  | 100.3    | * 1000*  | 1,0005 + | <. 001     | <.001 c                  | · 100. ·     | • 100. •              |          |          |   |
|                   | 235.2                   |          |          |          |            |          |          |          | 4.142 0  | 50         | 41.6 4                   | 7.8 .        | 23.5                  |          |          |   |
|                   | 40.01<br>20.01<br>20.01 |          |          |          |            | ×.04     |          | 100.3    | 4.001 1. | <.04       | ۰.05<br>د.05             | <.05<br><    |                       | <.05     |          |   |
| CONTRACTOR OF THE | 0.2<br>0.2              |          |          |          | 0.2<br>0.2 | <.001    | <.001    | • 1000.0 | 1000.    | <.001      | <.001                    | 0.001        | <.001                 | <.001    |          |   |
|                   | 0.046                   |          |          |          | 3.065      |          | . 002    | 0 6610-0 | .0056    | 7.024      | 7.142                    |              | 0.022                 | 0.206    |          |   |
| £36966666         | 0.06                    |          |          |          |            |          |          | 0.03 0   |          |            |                          |              | <ul><li>.05</li></ul> | ¢.05     | 0.05 1   |   |
|                   | 0.02<br><0.003          |          |          | 0.005    |            |          | < .005   |          |          |            | <ul> <li>.005</li> </ul> |              | <. 005                |          | 0.015    |   |
| AL-D<br>29/L      | 0.161 <                 | .074 -   | 0.092    |          |            | < 02     |          |          | 0.012    | <.05       | ۰, OS                    | <.05         | <.05                  | 0.16     | 0.067    |   |
|                   | 0.6<br>6.2 ¢            |          |          |          |            | <, 003   |          | 10001    | _        |            |                          |              |                       | <.003    |          |   |
| Concession of     |                         |          |          |          |            |          | •        | ۷        |          |            |                          |              |                       |          |          |   |
| D                 | 12/8/2002<br>20/08/02   | 27/08/02 | 16/09/02 | 15/10/02 | 12/11/2002 | 16/03/99 | 18/06/93 | 29/07/99 | 56/80/TE | 12/10/1999 | 25/03/00                 | 20/06/00     | 12/9/2000             | 7/6/2001 | 25/06/02 |   |
| Btation 1         |                         |          |          |          |            |          |          |          |          |            |                          |              |                       |          |          |   |

# Appendix C

General Groundwater Quality Data, 1998 to 2002

| Station                                         | n Date                                                                                                           | PH-F                                                  | PH-L                                                                                                            | TEMP-C                             | SO4-T           | COND                                                                                                                                                                                                                                | ALK-T                                     | HARD-T           |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------|
|                                                 | 영상에서 관계를 통하는 것이다.<br>같은 것은 것은 것이 같은 것이 같이                                    | pH unit                                               | pH unit                                                                                                         |                                    | mg/L            | μS/cm                                                                                                                                                                                                                               | and the second                            | (CACO3)          |
|                                                 |                                                                                                                  | Privaint                                              | Pirum                                                                                                           |                                    | INY/C           | μοισιμ                                                                                                                                                                                                                              | mg/L                                      | mg/L             |
| X16A                                            | 044000                                                                                                           |                                                       | endered av State                                                                                                |                                    | en di qui di di |                                                                                                                                                                                                                                     |                                           |                  |
|                                                 | 6/1/1998                                                                                                         | 6.99                                                  |                                                                                                                 |                                    | 23              |                                                                                                                                                                                                                                     |                                           |                  |
|                                                 | 10/31/1998                                                                                                       | 7.31                                                  |                                                                                                                 |                                    | 22.8            |                                                                                                                                                                                                                                     | 141                                       |                  |
|                                                 | 10/29/1999                                                                                                       | 7.13                                                  |                                                                                                                 | 4                                  | 15              |                                                                                                                                                                                                                                     |                                           |                  |
|                                                 | 5/31/2000<br>10/9/2000                                                                                           | 7.73<br>7.12                                          |                                                                                                                 | 4                                  | 33              |                                                                                                                                                                                                                                     |                                           |                  |
|                                                 | 6/5/2001                                                                                                         | 8                                                     | 7.36                                                                                                            | 5.3                                | 60<br>26        | 075                                                                                                                                                                                                                                 | 440                                       | 4.477            |
|                                                 | 9/5/2001                                                                                                         | 0                                                     | 7.30<br>8.25                                                                                                    | 3.5                                | 26<br>26        | 275                                                                                                                                                                                                                                 | 119                                       | 147              |
|                                                 | 6/10/2002                                                                                                        |                                                       | 8.12                                                                                                            |                                    | 26<br>26        | 314                                                                                                                                                                                                                                 | 450                                       | 400              |
|                                                 | 9/23/2002                                                                                                        | 8.13                                                  | 8.13                                                                                                            |                                    | 20<br>36        | 314<br>346                                                                                                                                                                                                                          | 150<br>146                                | 168<br>227       |
|                                                 |                                                                                                                  | 7 40                                                  |                                                                                                                 |                                    |                 |                                                                                                                                                                                                                                     |                                           |                  |
|                                                 | Mean<br>Median                                                                                                   | 7.49                                                  | 7.97                                                                                                            | 4.2                                | 29.8            | 314                                                                                                                                                                                                                                 | 139                                       | 181              |
|                                                 | Values                                                                                                           | 7.31<br>7                                             | 8.12<br>4                                                                                                       | 4                                  | 26              | 314                                                                                                                                                                                                                                 | 144                                       | 168              |
|                                                 | Values <dl< th=""><th>0</th><th>4</th><th>4<br/>0</th><th>9<br/>0</th><th>1<br/>0</th><th>4</th><th>3</th></dl<> | 0                                                     | 4                                                                                                               | 4<br>0                             | 9<br>0          | 1<br>0                                                                                                                                                                                                                              | 4                                         | 3                |
|                                                 | Values ADE                                                                                                       | U                                                     | U                                                                                                               | U                                  | U               | U                                                                                                                                                                                                                                   | 0                                         | 0                |
| X16B                                            |                                                                                                                  | na companya na sa |                                                                                                                 |                                    |                 |                                                                                                                                                                                                                                     |                                           | And Andrew State |
|                                                 | 6/1/1998                                                                                                         | 7.09                                                  |                                                                                                                 |                                    | 25              |                                                                                                                                                                                                                                     |                                           |                  |
|                                                 | 10/31/1998                                                                                                       | 7.49                                                  |                                                                                                                 |                                    | 42              |                                                                                                                                                                                                                                     | 167                                       |                  |
|                                                 | 6/19/1999                                                                                                        | 7.79                                                  |                                                                                                                 | 5                                  | 23              |                                                                                                                                                                                                                                     |                                           |                  |
|                                                 | 10/29/1999                                                                                                       | 7.38                                                  |                                                                                                                 | 3                                  | 24              |                                                                                                                                                                                                                                     |                                           |                  |
|                                                 | 5/31/2000                                                                                                        | 7.66                                                  |                                                                                                                 | 5                                  | 26              |                                                                                                                                                                                                                                     |                                           |                  |
|                                                 | 10/9/2000                                                                                                        | 7.38                                                  | 7.04                                                                                                            | 1.1                                | 87              |                                                                                                                                                                                                                                     |                                           |                  |
|                                                 | 6/5/2001                                                                                                         | 7.9                                                   | 7.61                                                                                                            | 3.9                                | 26              |                                                                                                                                                                                                                                     | 213                                       | 219              |
|                                                 | 9/5/2001                                                                                                         | 67                                                    | 8                                                                                                               |                                    | 33              |                                                                                                                                                                                                                                     |                                           |                  |
|                                                 | 6/10/2002<br>9/23/2002                                                                                           | 6.7<br>8.14                                           | 8.19<br>8.14                                                                                                    |                                    | 28<br>25        | 396                                                                                                                                                                                                                                 | 205<br>195                                | 229<br>223       |
|                                                 |                                                                                                                  |                                                       |                                                                                                                 |                                    | 20              |                                                                                                                                                                                                                                     | 100                                       | 220              |
|                                                 | Mean                                                                                                             | 7.5                                                   | 7.99                                                                                                            | 3.6                                | 34              | 396                                                                                                                                                                                                                                 | 195                                       | 224              |
|                                                 | Median                                                                                                           | 7.49                                                  | 8.07                                                                                                            | 3.9                                | 26              | 396                                                                                                                                                                                                                                 | 200                                       | 223              |
|                                                 | Values                                                                                                           | 9                                                     | 4                                                                                                               | 5                                  | 10              | 1                                                                                                                                                                                                                                   | 4                                         | 3                |
|                                                 | Values <dl< th=""><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th></dl<>                   | 0                                                     | 0                                                                                                               | 0                                  | 0               | 0                                                                                                                                                                                                                                   | 0                                         | 0                |
| X17A                                            |                                                                                                                  | en let maniet en oor                                  | terretaria de la composición de la composición de la composición de la composición de la composición de la comp |                                    |                 |                                                                                                                                                                                                                                     |                                           |                  |
| A Mark 6000 11 10 10 10 10 10 10 10 10 10 10 10 | 6/1/1998                                                                                                         | 7.05                                                  | a la serie de la serie e la serie de la | 1999-901 1999 ( <u>1999</u> (1997) | 34              | na na ina mangangan kanana paning kanggangan pangangan pangangangan pangangan pangangan pangangan pangangan pan<br>Pangan pangangan panga | analas da series da anti-da da anti-da da |                  |
|                                                 | 10/31/1998                                                                                                       | 7.21                                                  |                                                                                                                 |                                    | 29              |                                                                                                                                                                                                                                     | 174                                       |                  |
|                                                 | 6/19/1999                                                                                                        | 7.56                                                  |                                                                                                                 | 5                                  | 34              |                                                                                                                                                                                                                                     |                                           |                  |
|                                                 | 10/29/1999                                                                                                       | 7.45                                                  |                                                                                                                 | 3                                  | 44              |                                                                                                                                                                                                                                     |                                           |                  |
|                                                 | 5/31/2000                                                                                                        | 8.13                                                  |                                                                                                                 | 5                                  | 43              |                                                                                                                                                                                                                                     |                                           |                  |
|                                                 | 10/10/2000                                                                                                       | 7.83                                                  |                                                                                                                 | 4.4                                | 107             |                                                                                                                                                                                                                                     |                                           |                  |
|                                                 | 6/6/2001                                                                                                         | 7.8                                                   | <u>.</u>                                                                                                        | 3.7                                | 32              |                                                                                                                                                                                                                                     |                                           | 229              |
|                                                 | 9/5/2001                                                                                                         | 8                                                     | 8.26                                                                                                            | 4.3                                | 31              | 388                                                                                                                                                                                                                                 | 00-                                       | <b>~</b>         |
|                                                 | 6/10/2002                                                                                                        | 6.9                                                   | 7.97                                                                                                            |                                    | 46              | 466                                                                                                                                                                                                                                 | 233                                       | 275              |
|                                                 | 9/23/2002                                                                                                        | 8.13                                                  | 8.13                                                                                                            |                                    | 36              |                                                                                                                                                                                                                                     | 194                                       | 242              |
|                                                 | Mean                                                                                                             | 7.61                                                  | 8.12                                                                                                            | 4.23                               | 44              | 427                                                                                                                                                                                                                                 | 200                                       | 249              |
|                                                 | Median                                                                                                           | 7.68                                                  | 8.13                                                                                                            | 4.35                               | 35              | 427                                                                                                                                                                                                                                 | 194                                       | 242              |
|                                                 | Values                                                                                                           | 10                                                    | 3                                                                                                               | 6                                  | 10              | 2                                                                                                                                                                                                                                   | 3                                         | 3                |
|                                                 | Values <dl< td=""><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></dl<>                   | 0                                                     | 0                                                                                                               | 0                                  | 0               | 0                                                                                                                                                                                                                                   | 0                                         | 0                |

# Faro Site - Select Groundwater Quality Listing, 1998-2002, Physical Parameters

Faro Physical Parameters

| Station | Date                                                                                           | PH-F      | PH-L                                                                                                            | TEMP-C                                                                                                                                                   | SO4-T     | COND               | ALK-T    | HARD-T                                                   |
|---------|------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------|----------|----------------------------------------------------------|
|         |                                                                                                | pH unit   | pH unit                                                                                                         |                                                                                                                                                          | mg/L      | μS/cm              | mg/L     | (CACO3)<br>mg/L                                          |
| X17B    |                                                                                                |           | 1946-125 (B. 37) (B.                                                                                            |                                                                                                                                                          |           | NO SAME DE COMPLET |          |                                                          |
|         | 6/1/1998                                                                                       | 7.07      |                                                                                                                 |                                                                                                                                                          | 28        |                    |          |                                                          |
|         | 10/31/1998                                                                                     | 7.12      |                                                                                                                 |                                                                                                                                                          | 22        |                    | 138      |                                                          |
|         | 6/19/1999                                                                                      | 7.55      |                                                                                                                 | 5                                                                                                                                                        | 19        |                    | 100      |                                                          |
|         | 10/29/1999                                                                                     | 7.52      |                                                                                                                 | 3                                                                                                                                                        | 23        |                    |          |                                                          |
|         | 5/31/2000                                                                                      | 8.14      |                                                                                                                 | 7                                                                                                                                                        | 25        |                    |          |                                                          |
|         | 10/10/2000                                                                                     | 7.68      |                                                                                                                 | 4.2                                                                                                                                                      | 79        |                    |          |                                                          |
|         | 6/6/2001                                                                                       | 7.4       |                                                                                                                 | 4.7                                                                                                                                                      | 50        |                    |          | 303                                                      |
|         | 6/10/2002                                                                                      | 5.1       | 7.67                                                                                                            |                                                                                                                                                          | 54        | 599                | 320      | 331                                                      |
|         | 9/23/2002                                                                                      | 8.11      | 8.11                                                                                                            |                                                                                                                                                          | 39        | 000                | 251      | 285                                                      |
|         | Mean                                                                                           | 7.3       | 7.89                                                                                                            | 4.78                                                                                                                                                     | 38        | 599                | 236      | 306                                                      |
|         | Median                                                                                         | 7.52      | 7.89                                                                                                            | 4.7                                                                                                                                                      | 28        | 599                | 251      | 303                                                      |
|         | Values                                                                                         | 9         | 2                                                                                                               | 5                                                                                                                                                        | 9         | 1                  | 3        | 3                                                        |
|         | Values <dl< td=""><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></dl<> | 0         | 0                                                                                                               | 0                                                                                                                                                        | 0         | 0                  | 0        | 0                                                        |
| X18A    |                                                                                                |           |                                                                                                                 |                                                                                                                                                          |           |                    |          |                                                          |
|         | 6/2/1998                                                                                       | 6.92      | en en senen en en anter en anteren en antere (en la general)<br>En en senen en | 1999 (1999) - 1997 (1997) - 1997 (1997)<br>1997 - 1997 (1997) - 1997 (1997) - 1997 (1997) - 1997 (1997) - 1997 (1997) - 1997 (1997) - 1997 (1997) - 1997 | 313       |                    |          |                                                          |
|         | 10/31/1998                                                                                     | 6.64      |                                                                                                                 |                                                                                                                                                          | 413       |                    | 157      |                                                          |
|         | 6/19/1999                                                                                      | 6.93      |                                                                                                                 | 5                                                                                                                                                        | 455       |                    |          |                                                          |
|         | 10/29/1999                                                                                     | 6.28      |                                                                                                                 | 2                                                                                                                                                        | 382       |                    |          |                                                          |
|         | 6/27/2000                                                                                      | 6.35      |                                                                                                                 | 8                                                                                                                                                        | 435       |                    |          |                                                          |
|         | 10/9/2000                                                                                      | 7         |                                                                                                                 | 4.5                                                                                                                                                      | 131       |                    |          |                                                          |
|         | 6/6/2001                                                                                       | 7.4       |                                                                                                                 | 4.3                                                                                                                                                      | 423       |                    |          | 562                                                      |
|         | 9/5/2001                                                                                       |           | 7.67                                                                                                            |                                                                                                                                                          | 392       |                    |          | 002                                                      |
|         | 6/10/2002                                                                                      | 7.3       | 7.65                                                                                                            |                                                                                                                                                          | 553       | 1205               | 217      | 706                                                      |
|         | 9/27/2002                                                                                      | 7.79      | 7.79                                                                                                            |                                                                                                                                                          | 449       |                    | 203      | 590                                                      |
|         | Mean                                                                                           | 6.96      | 7.7                                                                                                             | 4.76                                                                                                                                                     | 395       | 1205               | 192      | 619                                                      |
|         | Median                                                                                         | 6.93      | 7.67                                                                                                            | 4.5                                                                                                                                                      | 418       | 1205               | 203      | 590                                                      |
|         | Values                                                                                         | 9         | 3                                                                                                               | 5                                                                                                                                                        | 10        | 1                  | 3        | 3                                                        |
|         | Values <dl< td=""><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></dl<> | 0         | 0                                                                                                               | 0                                                                                                                                                        | 0         | 0                  | 0        | 0                                                        |
| X18B    |                                                                                                |           |                                                                                                                 |                                                                                                                                                          |           |                    |          | din (Schaff Breitrach), ann a<br>Schaff Schaff Breitrach |
|         | 6/2/1998                                                                                       | 7.26      | an an air an an an ann an an an an an an an an an                                                               |                                                                                                                                                          | 327       |                    |          |                                                          |
|         | 10/31/1998                                                                                     | 6.85      |                                                                                                                 |                                                                                                                                                          | 456       |                    | 190      |                                                          |
|         | 7/29/1999                                                                                      | 8.03      |                                                                                                                 | 5                                                                                                                                                        | 397       |                    | 100      |                                                          |
|         | 10/29/1999                                                                                     | 5.75      |                                                                                                                 | 2                                                                                                                                                        | 422       |                    |          |                                                          |
|         | 5/31/2000                                                                                      | 7.16      |                                                                                                                 | 6                                                                                                                                                        | 399       |                    |          |                                                          |
|         | 10/9/2000                                                                                      | 7.09      |                                                                                                                 | 3.3                                                                                                                                                      | 245       |                    |          |                                                          |
|         | 6/6/2001                                                                                       | 7.4       |                                                                                                                 | 4.3                                                                                                                                                      | 475       |                    |          | 606                                                      |
|         | 9/5/2001                                                                                       |           | 7.83                                                                                                            |                                                                                                                                                          | 438       |                    |          | 000                                                      |
|         | 6/10/2002                                                                                      | 7.5       | 7.67                                                                                                            |                                                                                                                                                          | 470       | 1074               | 222      | 634                                                      |
|         | 9/23/2002                                                                                      | 7.96      | 7.96                                                                                                            |                                                                                                                                                          | 550       |                    | 177      | 647                                                      |
|         | Mean                                                                                           | 7.22      | 7.82                                                                                                            | 4.1                                                                                                                                                      | 418       | 1074               | 196      | 629                                                      |
|         |                                                                                                |           |                                                                                                                 |                                                                                                                                                          |           |                    |          |                                                          |
|         | Median                                                                                         | 7.26      | 7.83                                                                                                            | 4.3                                                                                                                                                      | 430       | 1074               | 190      | 634                                                      |
|         | Median<br>Values                                                                               | 7.26<br>9 | 7.83<br>3                                                                                                       | 4.3<br>5                                                                                                                                                 | 430<br>10 | 1074<br>1          | 190<br>3 | 634<br>3                                                 |

# Faro Site - Select Groundwater Quality Listing, 1998-2002, Physical Parameters

Faro Physical Parameters

# Faro Site - Select Groundwater Quality Listing, 1998-2002, Physical Parameters

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| Station | Date                                                                                           | PH-F         | PH-L         | TEMP-C     | SO4-T                                   | COND  | ALK-T | HARD-T<br>(CACO3)                    |
|---------|------------------------------------------------------------------------------------------------|--------------|--------------|------------|-----------------------------------------|-------|-------|--------------------------------------|
|         | al an is soon is frank is<br>Alternation                                                       | pH unit      | pH unit      |            | mg/L                                    | μS/cm | mg/L  | mg/L                                 |
| P96-6   |                                                                                                |              |              |            |                                         |       |       |                                      |
|         | 6/15/1998                                                                                      | 5.88         |              |            | 250                                     |       |       |                                      |
|         | 10/20/1998                                                                                     | 5.75         |              |            | 254                                     |       |       |                                      |
|         | 12/21/1998                                                                                     | 5.85         |              |            | 342                                     |       |       |                                      |
|         | 7/4/1999                                                                                       | 5.84         |              | 3          | 428                                     |       |       |                                      |
|         | 10/30/1999                                                                                     | 6.05         |              | 1          | 341                                     |       |       |                                      |
|         | 7/25/2000<br>10/22/2000                                                                        | 6.15<br>5.97 |              | 5.6        | 207                                     |       |       |                                      |
|         | 6/5/2001                                                                                       | 5.6          | 5.47         | 1.3<br>1.8 | 397<br>246                              |       | 302   | 538                                  |
|         | 10/25/2001                                                                                     | 6.54         | 6.14         | 1.4        | 193                                     | 437   | 302   | 030                                  |
|         | 6/11/2002                                                                                      | 6.8          | 7.08         |            | 303                                     | 1123  | 359   | 638                                  |
|         | 9/25/2002                                                                                      | 6.69         | 6.69         |            | 183                                     |       | 269   | 515                                  |
|         | Mean                                                                                           | 6.1          | 6.34         | 2.35       | 286                                     | 780   | 310   | 564                                  |
|         | Median                                                                                         | 5.97         | 6.41         | 1.6        | 254                                     | 780   | 302   | 538                                  |
|         | Values                                                                                         | 11           | 4            | 6          | 11                                      | 2     | 3     | 3                                    |
|         | Values <dl< td=""><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></dl<> | 0            | 0            | 0          | 0                                       | 0     | 0     | 0                                    |
| P96-7   |                                                                                                |              |              |            |                                         |       |       |                                      |
|         | 6/15/1998                                                                                      | 6.96         |              |            | 437                                     |       | ,     | 96-9701110-7771102772122222222222222 |
|         | 10/31/1998                                                                                     | 7.01         |              |            | 1219                                    |       | 141   |                                      |
|         | 12/22/1998<br>10/31/1999                                                                       | 7.06<br>6.81 |              | 1          | 1155<br>1606                            |       |       |                                      |
|         | 10/22/2000                                                                                     | 7.02         |              | 1.5        | 720                                     |       |       |                                      |
|         | 6/6/2001                                                                                       | 7.3          |              | 3.4        | 1226                                    |       |       | 1258                                 |
|         | 10/26/2001                                                                                     | 7.67         | 7.23         | 1.4        | 1800                                    | 1498  |       | .200                                 |
|         | 6/12/2002                                                                                      | 7.5          | 7.61         |            | 1260                                    | 2082  | 267   | 1530                                 |
|         | 9/25/2002                                                                                      | 7.58         | 7.58         |            | 1960                                    | 2910  | 162   | 2220                                 |
|         | Mean                                                                                           | 7.21         | 7.47         | 1.8        | 1265                                    | 2163  | 190   | 1669                                 |
|         | Median                                                                                         | 7.06         | 7.58         | 1.4        | 1226                                    | 2082  | 162   | 1530                                 |
|         | Values                                                                                         | 9            | 3            | 4          | 9                                       | 3     | 3     | 3                                    |
|         | Values <dl< th=""><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th></dl<> | 0            | 0            | 0          | 0                                       | 0     | 0     | 0                                    |
| P96-8A  |                                                                                                |              |              |            | ang ang ang ang ang ang ang ang ang ang |       |       |                                      |
|         | 6/15/1998                                                                                      | 6.47         |              |            | 1702                                    |       |       |                                      |
|         | 10/19/1998<br>7/3/1999                                                                         | 6.3<br>6.46  |              | 0          | 2535                                    |       |       |                                      |
|         | 10/29/1999                                                                                     | 6.48<br>6.28 |              | 3<br>2     | 2290<br>2993                            |       |       |                                      |
|         | 5/31/2000                                                                                      | 5.9          |              | 2          | 1340                                    |       |       |                                      |
|         | 10/10/2000                                                                                     | 6.07         |              | 4.9        | 1752                                    |       |       |                                      |
|         | 6/7/2001                                                                                       | 6.9          | 5.98         | 2.3        | 3391                                    |       | 144   |                                      |
|         | 10/25/2001                                                                                     | 6.31         | 7.04         | 4.8        | 3900                                    | 3225  |       |                                      |
|         | 6/11/2002                                                                                      |              | 7.87         |            | 1420                                    |       | 299   | 1640                                 |
|         | 9/5/2002<br>9/25/2002                                                                          | 7.15         | 7.06<br>7.15 |            | 3510                                    |       | 230   | 3650                                 |
|         | 312012002                                                                                      | 7.10         | 1.10         |            | 4300                                    |       | 251   | 4580                                 |
|         | Mean                                                                                           | 6.43         | 7.02         | 3.17       | 2648                                    | 3225  | 231   | 3290                                 |
|         | Median                                                                                         | 6.31         | 7.06         | 2.65       | 2535                                    | 3225  | 240   | 3650                                 |
|         |                                                                                                |              |              |            |                                         |       |       |                                      |

Faro Physical Parameters

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 $\left( \begin{array}{c} \cdot \\ \cdot \end{array} \right)$ 

 $\left( \begin{array}{c} \cdot \\ \cdot \\ \cdot \end{array} \right)$ 

| Station                    | Date                                                                                                 | PH-F                 | PH-L                                 | TEMP-C                                   | SO4-T        | COND                                                                                                            | ALK-T        | HARD-T<br>(CACO3)                                                                                               |
|----------------------------|------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------|------------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------|
| 160.031.989.08             |                                                                                                      | pH unit              | pH unit                              |                                          | mg/L         | μS/cm                                                                                                           | mg/L         | mg/L                                                                                                            |
|                            | Values                                                                                               | 9                    | 5                                    | 6                                        | 11           | 1                                                                                                               | 4            | 3                                                                                                               |
|                            | Values <dl< th=""><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th></dl<>       | 0                    | 0                                    | 0                                        | 0            | 0                                                                                                               | 0            | 0                                                                                                               |
| P96-8B                     |                                                                                                      |                      |                                      |                                          |              |                                                                                                                 |              |                                                                                                                 |
| 6742-0407, Visit daalaataa | 6/15/1998                                                                                            | 6.58                 | ne forei i leftere felter statelige. |                                          | 2092         |                                                                                                                 |              |                                                                                                                 |
|                            | 7/3/1999                                                                                             | 6.67                 |                                      | 3                                        | 2983         |                                                                                                                 |              |                                                                                                                 |
|                            | 10/29/1999                                                                                           | 6.18                 |                                      | 2                                        | 3218         |                                                                                                                 |              |                                                                                                                 |
|                            | 5/31/2000                                                                                            | 6.48                 |                                      | 4                                        | 3714         |                                                                                                                 |              |                                                                                                                 |
|                            | 10/10/2000                                                                                           | 6.68                 |                                      | 2                                        | 3270         |                                                                                                                 |              |                                                                                                                 |
|                            | 6/7/2001                                                                                             | 6.6                  | 6.1                                  | 3.7                                      | 4468         |                                                                                                                 | 341          |                                                                                                                 |
|                            | 10/25/2001                                                                                           | 6.35                 | 6.12                                 | 4.7                                      | 4690         | 3422                                                                                                            |              |                                                                                                                 |
|                            | 9/5/2002                                                                                             |                      | 6.82                                 |                                          | 4140         |                                                                                                                 | 356          | 4750                                                                                                            |
|                            | 9/25/2002                                                                                            | 6.94                 | 6.94                                 |                                          | 4240         |                                                                                                                 | 360          | 5200                                                                                                            |
|                            | Mean                                                                                                 | 6.56                 | 6.5                                  | 3.23                                     | 3646         | 3422                                                                                                            | 352          | 4975                                                                                                            |
|                            | Median                                                                                               | 6.59                 | 6.47                                 | 3.35                                     | 3714         | 3422                                                                                                            | 356          | 4975                                                                                                            |
|                            | Values                                                                                               | 8                    | 4                                    | 6                                        | 9            | 1                                                                                                               | 3            | 2                                                                                                               |
|                            | Values <dl< th=""><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>Ō</th><th>0</th></dl<>       | 0                    | 0                                    | 0                                        | 0            | 0                                                                                                               | Ō            | 0                                                                                                               |
| S1A                        |                                                                                                      |                      |                                      |                                          |              |                                                                                                                 |              |                                                                                                                 |
|                            | 6/15/1998                                                                                            | 6.78                 |                                      |                                          | 1325         |                                                                                                                 | NA TRADUCTOR | and the state of the second second second second second second second second second second second second second |
|                            | 10/31/1998                                                                                           | 6.24                 |                                      |                                          | 2351         |                                                                                                                 | 292          |                                                                                                                 |
|                            | 7/3/1999                                                                                             | 7.24                 |                                      | 3                                        | 2356         |                                                                                                                 | 292          |                                                                                                                 |
|                            | 10/31/1999                                                                                           | 6.75                 |                                      | 1                                        | 2533         |                                                                                                                 |              |                                                                                                                 |
|                            | 7/25/2000                                                                                            | 6.64                 |                                      | 7.2                                      | 2530         |                                                                                                                 |              |                                                                                                                 |
|                            | 10/22/2000                                                                                           | 6.11                 |                                      | 1.3                                      | 2357         |                                                                                                                 |              |                                                                                                                 |
|                            | 6/6/2001                                                                                             | 6.6                  |                                      | 2.1                                      | 2964         |                                                                                                                 |              | 2851                                                                                                            |
|                            | 10/26/2001                                                                                           | 6.84                 | 6.36                                 | 0.9                                      | 3380         | 2350                                                                                                            |              | 2001                                                                                                            |
|                            | 6/12/2002                                                                                            | 5.9                  | 6.84                                 | 0.0                                      | 4080         | 4746                                                                                                            | 229          | 3830                                                                                                            |
|                            | 9/25/2002                                                                                            | 7.11                 | 7.11                                 |                                          | 3590         | 0-11-0                                                                                                          | 220          | 4170                                                                                                            |
|                            | Mean                                                                                                 | 6.62                 | 6.77                                 | 2.58                                     | 2747         | 2540                                                                                                            | 0.47         | 0047                                                                                                            |
|                            | Median                                                                                               | 6.69                 | 6.84                                 | 1.7                                      | 2747<br>2532 | 3548<br>3548                                                                                                    | 247          | 3617                                                                                                            |
|                            | Values                                                                                               | 10                   | 3                                    | 6                                        | 10           | 2                                                                                                               | 229<br>3     | 3830                                                                                                            |
|                            | Values <dl< th=""><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>3<br/>0</th></dl<> | 0                    | 0                                    | 0                                        | 0            | 0                                                                                                               | 0            | 3<br>0                                                                                                          |
| C1D                        |                                                                                                      | Seven En Selas astro |                                      | Na kata kata kata kata kata kata kata ka |              | on a serie de la constante de l |              |                                                                                                                 |
| S1B                        | 6/15/1998                                                                                            | 7.02                 |                                      |                                          | 348          | Partinalis and the state                                                                                        |              | alan an an an an                                                                                                |
|                            | 10/31/1998                                                                                           | 6.42                 |                                      |                                          | 348<br>820   |                                                                                                                 | 187          |                                                                                                                 |
|                            | 7/3/1999                                                                                             | 7.66                 |                                      | 2                                        | 626          |                                                                                                                 | 107          |                                                                                                                 |
|                            | 10/31/1999                                                                                           | 6.28                 |                                      | 0                                        | 863          |                                                                                                                 |              |                                                                                                                 |
|                            | 7/25/2000                                                                                            | 6.42                 |                                      | 3.9                                      | 005          |                                                                                                                 |              |                                                                                                                 |
|                            | 10/22/2000                                                                                           | 6.12                 |                                      | 3.5<br>1.6                               | 351          |                                                                                                                 |              |                                                                                                                 |
|                            | 6/6/2001                                                                                             | 6.6                  |                                      | 2                                        | 1528         |                                                                                                                 |              | 1356                                                                                                            |
|                            | 10/26/2001                                                                                           | 0.0                  | 6.37                                 | 1                                        | 1150         | 955                                                                                                             |              | 1000                                                                                                            |
|                            | 6/12/2002                                                                                            | 6.3                  | 7.39                                 | 1                                        | 1170         | 955<br>1844                                                                                                     | 144          | 1160                                                                                                            |
|                            | 9/25/2002                                                                                            | 7.03                 | 7.03                                 |                                          | 1150         | 1044                                                                                                            | 144<br>87    | 1240                                                                                                            |
|                            |                                                                                                      | . 100                |                                      |                                          | . 100        |                                                                                                                 | 01           | 1240                                                                                                            |
|                            | Mean                                                                                                 | 6.65                 | 6.93                                 | 1.75                                     | 890          | 1400                                                                                                            | 139          | 1252                                                                                                            |
|                            | Median                                                                                               | 6.42                 | 7.03                                 | 1.8                                      | 863          | 1400                                                                                                            | 144          | 1240                                                                                                            |
|                            |                                                                                                      |                      |                                      |                                          |              |                                                                                                                 |              |                                                                                                                 |

Faro Physical Parameters

| es<br>es <dl<br>5/1998<br/>31/1998<br/>3/1999<br/>31/1999<br/>5/2000<br/>22/2000<br/>5/2001<br/>2/2002<br/>5/2002<br/>5/2002<br/>an<br/>s <dl< th=""><th>pH unit<br/>9<br/>0<br/>6.1<br/>6.33<br/>6.76<br/>6.18<br/>6.39<br/>6.21<br/>7<br/>5.7<br/>7.08<br/>6.42<br/>6.33<br/>9<br/>0</th><th>pH unit<br/>3<br/>0<br/>6.83<br/>7.08<br/>6.95<br/>6.95<br/>2<br/>0</th><th>6<br/>0<br/>2<br/>0<br/>4.2<br/>1.4<br/>4.8<br/>2.48<br/>2<br/>5<br/>0</th><th>mg/L<br/>9<br/>0<br/>529<br/>1069<br/>1491<br/>1385<br/>1408<br/>1263<br/>2190<br/>4120<br/>1682<br/>1396<br/>8<br/>0</th><th>μS/cm<br/>2<br/>0<br/>3850<br/>3850<br/>3850<br/>1<br/>0</th><th>mg/L<br/>3<br/>0<br/>223<br/>152<br/>198<br/>191<br/>198<br/>3<br/>0</th><th>(CACO3)<br/>mg/L<br/>3<br/>0<br/>1325<br/>3030<br/>3390<br/>2582<br/>3030<br/>3<br/>0</th></dl<></dl<br> | pH unit<br>9<br>0<br>6.1<br>6.33<br>6.76<br>6.18<br>6.39<br>6.21<br>7<br>5.7<br>7.08<br>6.42<br>6.33<br>9<br>0 | pH unit<br>3<br>0<br>6.83<br>7.08<br>6.95<br>6.95<br>2<br>0 | 6<br>0<br>2<br>0<br>4.2<br>1.4<br>4.8<br>2.48<br>2<br>5<br>0                                                            | mg/L<br>9<br>0<br>529<br>1069<br>1491<br>1385<br>1408<br>1263<br>2190<br>4120<br>1682<br>1396<br>8<br>0                                                                       | μS/cm<br>2<br>0<br>3850<br>3850<br>3850<br>1<br>0                                                                                                                                                                                    | mg/L<br>3<br>0<br>223<br>152<br>198<br>191<br>198<br>3<br>0                                                                                                                                                                                                           | (CACO3)<br>mg/L<br>3<br>0<br>1325<br>3030<br>3390<br>2582<br>3030<br>3<br>0                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| es <dl<br>5/1998<br/>31/1998<br/>3/1999<br/>5/2000<br/>22/2000<br/>5/2001<br/>2/2002<br/>5/2002<br/>5/2002</dl<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0<br>6.1<br>6.33<br>6.76<br>6.18<br>6.39<br>6.21<br>7<br>5.7<br>7.08<br>6.42<br>6.33<br>9<br>0                 | 0<br>6.83<br>7.08<br>6.95<br>6.95<br>2                      | 0<br>2<br>0<br>4.2<br>1.4<br>4.8<br>2.48<br>2<br>5                                                                      | 0<br>529<br>1069<br>1491<br>1385<br>1408<br>1263<br>2190<br>4120<br>1682<br>1396<br>8                                                                                         | 0<br>3850<br>3850<br>3850<br>1                                                                                                                                                                                                       | 0<br>223<br>152<br>198<br>191<br>198<br>3                                                                                                                                                                                                                             | 0<br>1325<br>3030<br>3390<br>2582<br>3030<br>3                                                                                                                                                                                                                                                      |
| 5/1998<br>31/1998<br>3/1999<br>5/2000<br>22/2000<br>5/2001<br>2/2002<br>5/2002<br>5/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6.1<br>6.33<br>6.76<br>6.18<br>6.39<br>6.21<br>7<br>5.7<br>7.08<br>6.42<br>6.33<br>9<br>0                      | 6.83<br>7.08<br>6.95<br>6.95<br>2                           | 2<br>0<br>4.2<br>1.4<br>4.8<br>2.48<br>2<br>5                                                                           | 529<br>1069<br>1491<br>1385<br>1408<br>1263<br>2190<br>4120<br><b>1682</b><br><b>1396</b><br><b>8</b>                                                                         | 3850<br>3850<br>3850<br>3850<br>1                                                                                                                                                                                                    | 223<br>152<br>198<br>191<br>198<br>3                                                                                                                                                                                                                                  | 1325<br>3030<br>3390<br>2582<br>3030<br>3                                                                                                                                                                                                                                                           |
| 31/1998<br>3/1999<br>31/1999<br>5/2000<br>22/2000<br>5/2001<br>2/2002<br>5/2002<br>5/2002<br>an<br>s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6.33<br>6.76<br>6.18<br>6.39<br>6.21<br>7<br>5.7<br>7.08<br>6.42<br>6.33<br>9<br>0                             | 7.08<br>6.95<br>6.95<br>2                                   | 0<br>4.2<br>1.4<br>4.8<br>2.48<br>2<br>5                                                                                | 1069<br>1491<br>1385<br>1408<br>1263<br>2190<br>4120<br><b>1682<br/>1396</b><br><b>8</b>                                                                                      | 3850<br>3850<br>1                                                                                                                                                                                                                    | 152<br>198<br><b>191</b><br>198<br>3                                                                                                                                                                                                                                  | 3030<br>3390<br><b>2582</b><br>3030<br>3                                                                                                                                                                                                                                                            |
| 31/1998<br>3/1999<br>31/1999<br>5/2000<br>22/2000<br>5/2001<br>2/2002<br>5/2002<br>5/2002<br>an<br>s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6.33<br>6.76<br>6.18<br>6.39<br>6.21<br>7<br>5.7<br>7.08<br>6.42<br>6.33<br>9<br>0                             | 7.08<br>6.95<br>6.95<br>2                                   | 0<br>4.2<br>1.4<br>4.8<br>2.48<br>2<br>5                                                                                | 1069<br>1491<br>1385<br>1408<br>1263<br>2190<br>4120<br><b>1682<br/>1396</b><br><b>8</b>                                                                                      | 3850<br>3850<br>1                                                                                                                                                                                                                    | 152<br>198<br><b>191</b><br>198<br>3                                                                                                                                                                                                                                  | 3030<br>3390<br>2582<br>3030<br>3                                                                                                                                                                                                                                                                   |
| 3/1999<br>31/1999<br>5/2000<br>22/2000<br>5/2001<br>2/2002<br>5/2002<br>5/2002<br>an<br>s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6.76<br>6.18<br>6.39<br>6.21<br>7<br>5.7<br>7.08<br>6.42<br>6.33<br>9<br>0                                     | 7.08<br>6.95<br>6.95<br>2                                   | 0<br>4.2<br>1.4<br>4.8<br>2.48<br>2<br>5                                                                                | 1491<br>1385<br>1408<br>1263<br>2190<br>4120<br><b>1682<br/>1396</b><br><b>8</b>                                                                                              | 3850<br>3850<br>1                                                                                                                                                                                                                    | 152<br>198<br><b>191</b><br>198<br>3                                                                                                                                                                                                                                  | 3030<br>3390<br>2582<br>3030<br>3                                                                                                                                                                                                                                                                   |
| 31/1999<br>5/2000<br>22/2000<br>5/2001<br>2/2002<br>5/2002<br>an<br>s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6.18<br>6.39<br>6.21<br>7<br>5.7<br>7.08<br>6.42<br>6.33<br>9<br>0                                             | 7.08<br>6.95<br>6.95<br>2                                   | 0<br>4.2<br>1.4<br>4.8<br>2.48<br>2<br>5                                                                                | 1385<br>1408<br>1263<br>2190<br>4120<br><b>1682<br/>1396</b><br>8                                                                                                             | 3850<br>3850<br>1                                                                                                                                                                                                                    | 198<br>191<br>198<br>3                                                                                                                                                                                                                                                | 3030<br>3390<br>2582<br>3030<br>3                                                                                                                                                                                                                                                                   |
| 5/2000<br>22/2000<br>5/2001<br>2/2002<br>5/2002<br>an<br>s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6.39<br>6.21<br>7<br>5.7<br>7.08<br>6.42<br>6.33<br>9<br>0                                                     | 7.08<br>6.95<br>6.95<br>2                                   | 4.2<br>1.4<br>4.8<br>2.48<br>2<br>5                                                                                     | 1408<br>1263<br>2190<br>4120<br><b>1682</b><br><b>1396</b><br><b>8</b>                                                                                                        | 3850<br>3850<br>1                                                                                                                                                                                                                    | 198<br>191<br>198<br>3                                                                                                                                                                                                                                                | 3030<br>3390<br>2582<br>3030<br>3                                                                                                                                                                                                                                                                   |
| 22/2000<br>6/2001<br>2/2002<br>5/2002<br>an<br>s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6.21<br>7<br>5.7<br>7.08<br>6.42<br>6.33<br>9<br>0                                                             | 7.08<br>6.95<br>6.95<br>2                                   | 1.4<br>4.8<br>2.48<br>2<br>5                                                                                            | 1263<br>2190<br>4120<br><b>1682</b><br><b>1396</b><br>8                                                                                                                       | 3850<br>3850<br>1                                                                                                                                                                                                                    | 198<br>191<br>198<br>3                                                                                                                                                                                                                                                | 3030<br>3390<br><b>2582</b><br>3030<br>3                                                                                                                                                                                                                                                            |
| 5/2001<br>2/2002<br>5/2002<br>an<br>s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 7<br>5.7<br>7.08<br>6.42<br>6.33<br>9<br>0                                                                     | 7.08<br>6.95<br>6.95<br>2                                   | 4.8<br>2.48<br>2<br>5                                                                                                   | 2190<br>4120<br>1682<br>1396<br>8                                                                                                                                             | 3850<br>3850<br>1                                                                                                                                                                                                                    | 198<br>191<br>198<br>3                                                                                                                                                                                                                                                | 3030<br>3390<br><b>2582</b><br>3030<br>3                                                                                                                                                                                                                                                            |
| 2/2002<br>5/2002<br>an<br>s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5.7<br>7.08<br>6.42<br>6.33<br>9<br>0                                                                          | 7.08<br>6.95<br>6.95<br>2                                   | 2.48<br>2<br>5                                                                                                          | 2190<br>4120<br>1682<br>1396<br>8                                                                                                                                             | 3850<br>3850<br>1                                                                                                                                                                                                                    | 198<br>191<br>198<br>3                                                                                                                                                                                                                                                | 3030<br>3390<br><b>2582</b><br>3030<br>3                                                                                                                                                                                                                                                            |
| 5/2002<br>an<br>s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 7.08<br>6.42<br>6.33<br>9<br>0<br>6.07                                                                         | 7.08<br>6.95<br>6.95<br>2                                   | 2<br>5                                                                                                                  | 2190<br>4120<br>1682<br>1396<br>8                                                                                                                                             | 3850<br>3850<br>1                                                                                                                                                                                                                    | 198<br>191<br>198<br>3                                                                                                                                                                                                                                                | 3030<br>3390<br>2582<br>3030<br>3                                                                                                                                                                                                                                                                   |
| an<br>S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6.42<br>6.33<br>9<br>0<br>6.07                                                                                 | 6.95<br>6.95<br>2                                           | 2<br>5                                                                                                                  | 4120<br>1682<br>1396<br>8                                                                                                                                                     | 3850<br>3850<br>1                                                                                                                                                                                                                    | 198<br>191<br>198<br>3                                                                                                                                                                                                                                                | 3390<br>2582<br>3030<br>3                                                                                                                                                                                                                                                                           |
| an<br>S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6.33<br>9<br>0<br>6.07                                                                                         | 6.95<br>2                                                   | 2<br>5                                                                                                                  | 1396<br>8                                                                                                                                                                     | 3850<br>1                                                                                                                                                                                                                            | 198<br>3                                                                                                                                                                                                                                                              | 3030<br>3                                                                                                                                                                                                                                                                                           |
| S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 9<br>0<br>6.07                                                                                                 | 2                                                           | 5                                                                                                                       | 1396<br>8                                                                                                                                                                     | 3850<br>1                                                                                                                                                                                                                            | 198<br>3                                                                                                                                                                                                                                                              | 3030<br>3                                                                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>0</b><br>6.07                                                                                               |                                                             | 5                                                                                                                       |                                                                                                                                                                               | 1                                                                                                                                                                                                                                    | 3                                                                                                                                                                                                                                                                     | 3                                                                                                                                                                                                                                                                                                   |
| s <dl< td=""><td>6.07</td><td>0</td><td>0</td><td>0</td><td>0</td><td></td><td></td></dl<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6.07                                                                                                           | 0                                                           | 0                                                                                                                       | 0                                                                                                                                                                             | 0                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                |                                                             |                                                                                                                         |                                                                                                                                                                               |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                     |
| 中的复数形式使用某些重要的问题。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                |                                                             |                                                                                                                         |                                                                                                                                                                               | Sector and the sector of the sector sector and                                                                                                                                                                                       |                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                     |
| 5/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                |                                                             |                                                                                                                         | 725                                                                                                                                                                           | ana na sina na                                                                                                                       |                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                     |
| 1/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6.3                                                                                                            |                                                             |                                                                                                                         | 550                                                                                                                                                                           |                                                                                                                                                                                                                                      | 361                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                     |
| /1999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6.82                                                                                                           |                                                             | 2                                                                                                                       | 1300                                                                                                                                                                          |                                                                                                                                                                                                                                      | 001                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                     |
| 1/1999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6.15                                                                                                           |                                                             | 0                                                                                                                       | 345                                                                                                                                                                           |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                     |
| 5/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5.56                                                                                                           |                                                             | 4.7                                                                                                                     | 388                                                                                                                                                                           |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                     |
| 2/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6.22                                                                                                           |                                                             | 1.3                                                                                                                     | 696                                                                                                                                                                           |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                     |
| /2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 7.4                                                                                                            |                                                             | 3                                                                                                                       | 1200                                                                                                                                                                          |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                       | 1332                                                                                                                                                                                                                                                                                                |
| 6/2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                | 6.25                                                        | 1                                                                                                                       | 2210                                                                                                                                                                          | 1256                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                       | 1002                                                                                                                                                                                                                                                                                                |
| 2/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6.6                                                                                                            | 6.98                                                        | •                                                                                                                       | 2250                                                                                                                                                                          | 1267                                                                                                                                                                                                                                 | 57                                                                                                                                                                                                                                                                    | 974                                                                                                                                                                                                                                                                                                 |
| 5/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6.92                                                                                                           | 6.92                                                        |                                                                                                                         | 2550                                                                                                                                                                          | 1201                                                                                                                                                                                                                                 | 110                                                                                                                                                                                                                                                                   | 1980                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6.45                                                                                                           | 6.72                                                        | 2                                                                                                                       | 1221                                                                                                                                                                          | 1262                                                                                                                                                                                                                                 | 176                                                                                                                                                                                                                                                                   | 1429                                                                                                                                                                                                                                                                                                |
| n                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6.3                                                                                                            | 6.92                                                        | 1.65                                                                                                                    | 962                                                                                                                                                                           | 1262                                                                                                                                                                                                                                 | 110                                                                                                                                                                                                                                                                   | 1332                                                                                                                                                                                                                                                                                                |
| S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 9                                                                                                              | 3                                                           | 6                                                                                                                       | 10                                                                                                                                                                            | 2                                                                                                                                                                                                                                    | 3                                                                                                                                                                                                                                                                     | 3                                                                                                                                                                                                                                                                                                   |
| s <dl< td=""><td>0</td><td>Ő</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></dl<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0                                                                                                              | Ő                                                           | 0                                                                                                                       | 0                                                                                                                                                                             | 0                                                                                                                                                                                                                                    | 0                                                                                                                                                                                                                                                                     | 0                                                                                                                                                                                                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                |                                                             |                                                                                                                         |                                                                                                                                                                               |                                                                                                                                                                                                                                      | aden de service de la composition de la composition de la composition de la composition de la composition de la                                                                                                                                                       |                                                                                                                                                                                                                                                                                                     |
| 5/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6.33                                                                                                           |                                                             |                                                                                                                         | 1323                                                                                                                                                                          | antoning Singericaning                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                       | angenter af de la seconde de la seconda de la seconda de la seconda de la seconda de la seconda de la seconda d<br>La seconda de la seconda de                                                                  |
| 1/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6.32                                                                                                           |                                                             |                                                                                                                         | 1862                                                                                                                                                                          |                                                                                                                                                                                                                                      | 239                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                     |
| 1/1999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5.55                                                                                                           |                                                             | 0                                                                                                                       | 2119                                                                                                                                                                          |                                                                                                                                                                                                                                      | 200                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                     |
| 111000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6.37                                                                                                           |                                                             | 5.5                                                                                                                     | 2025                                                                                                                                                                          |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6.03                                                                                                           |                                                             | 1.4                                                                                                                     | 1994                                                                                                                                                                          |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                     |
| 5/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                |                                                             |                                                                                                                         |                                                                                                                                                                               |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                       | 2715                                                                                                                                                                                                                                                                                                |
| 5/2000<br>2/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                | 6.17                                                        |                                                                                                                         |                                                                                                                                                                               | 2371                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                       | 2110                                                                                                                                                                                                                                                                                                |
| 5/2000<br>2/2000<br>/2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                |                                                             |                                                                                                                         |                                                                                                                                                                               |                                                                                                                                                                                                                                      | 148                                                                                                                                                                                                                                                                   | 4520                                                                                                                                                                                                                                                                                                |
| 5/2000<br>2/2000<br>/2001<br>6/2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                | 6.74                                                        |                                                                                                                         | 4350                                                                                                                                                                          | 0010                                                                                                                                                                                                                                 | 178                                                                                                                                                                                                                                                                   | 4520<br>3530                                                                                                                                                                                                                                                                                        |
| 5/2000<br>2/2000<br>/2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6.74                                                                                                           |                                                             |                                                                                                                         | 2677                                                                                                                                                                          | 3720                                                                                                                                                                                                                                 | 188                                                                                                                                                                                                                                                                   | 3588                                                                                                                                                                                                                                                                                                |
| 5/2000<br>2/2000<br>/2001<br>6/2001<br>2/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6.74                                                                                                           | 6.58                                                        | 2.2                                                                                                                     |                                                                                                                                                                               |                                                                                                                                                                                                                                      | 178                                                                                                                                                                                                                                                                   | 3530                                                                                                                                                                                                                                                                                                |
| 5/2000<br>2/2000<br>/2001<br>6/2001<br>2/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6.74<br><b>6.37</b>                                                                                            | 6.58<br>6.74                                                |                                                                                                                         | 2119                                                                                                                                                                          | 5/211                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                     |
| 5/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2001<br>/2001                                                                                                  | 2001 7.1<br>/2001 6.78<br>2002 6.1                          | 2001       7.1         /2001       6.78       6.17         2002       6.1       6.83         2002       6.74       6.74 | 2001       7.1       1.6         /2001       6.78       6.17       2.4         2002       6.1       6.83         2002       6.74       6.74         6.37       6.58       2.2 | 2001       7.1       1.6       2792         /2001       6.78       6.17       2.4       3210         2002       6.1       6.83       4420         2002       6.74       6.74       4350         6.37       6.58       2.2       2677 | 2001       7.1       1.6       2792         /2001       6.78       6.17       2.4       3210       2371         2002       6.1       6.83       4420       5070         2002       6.74       6.74       4350         6.37       6.58       2.2       2677       3720 | 2001       7.1       1.6       2792         /2001       6.78       6.17       2.4       3210       2371         2002       6.1       6.83       4420       5070       148         2002       6.74       6.74       4350       178         6.37       6.58       2.2       2677       3720       188 |

Faro Physical Parameters

| 5.10% / 10% / 20% / 20% / 20% |                                                                                                |                        |         |                                                |                                                                                                                |                                  |                                                                                                                 |                   |
|-------------------------------|------------------------------------------------------------------------------------------------|------------------------|---------|------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------|
| Static                        | on Date                                                                                        | PH-F                   | PH-L    | TEMP-C                                         | SO4-T                                                                                                          | COND                             | ALK-T                                                                                                           | HARD-T            |
|                               |                                                                                                | n di kana kana kana    |         |                                                | CONTRACTOR OF STREET                                                                                           |                                  | CALCER OF A                                                                                                     | (CACO3)           |
| supposed a pro-               |                                                                                                | pH unit                | pH unit |                                                | mg/L                                                                                                           | µS/cm                            | mg/L                                                                                                            | mg/L              |
| wienst oreneitärikkilä        | Values <dl< th=""><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th></dl<> | 0                      | 0       | 0                                              | 0                                                                                                              | 0                                | 0                                                                                                               | 0                 |
| BH1                           |                                                                                                | NAMES AND ADDRESS      |         | a and a second                                 | -                                                                                                              |                                  |                                                                                                                 |                   |
|                               | 6/15/1998                                                                                      | 6.56                   |         |                                                | 00                                                                                                             |                                  | NAMES AND ADDRESS OF ADDRESS OF ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS |                   |
|                               | 10/20/1998                                                                                     | 6.16                   |         |                                                | 92                                                                                                             |                                  |                                                                                                                 |                   |
|                               | 7/4/1999                                                                                       | 0.10                   |         | 2                                              | 21<br>399                                                                                                      |                                  |                                                                                                                 |                   |
|                               | 10/30/1999                                                                                     | 5.75                   |         | 3<br>1                                         | 399<br>150                                                                                                     |                                  |                                                                                                                 |                   |
|                               | 6/5/2001                                                                                       | 6.5                    | 6.07    | 4.5                                            | 92                                                                                                             |                                  | 457                                                                                                             | 000               |
|                               | 9/23/2002                                                                                      | 6.89                   | 6.89    | 4.0                                            | 92<br>286                                                                                                      |                                  | 157                                                                                                             | 222               |
|                               | 5/20/2002                                                                                      | 0.05                   | 0.03    |                                                | 200                                                                                                            |                                  | 122                                                                                                             | 480               |
|                               | Mean                                                                                           | 6.37                   | 6.48    | 2.83                                           | 173                                                                                                            |                                  | 140                                                                                                             | 351               |
|                               | Median                                                                                         | 6.5                    | 6.48    | 3                                              | 121                                                                                                            |                                  | 140                                                                                                             | 351               |
|                               | Values                                                                                         | 5                      | 2       | 3                                              | 6                                                                                                              |                                  | 2                                                                                                               | 2                 |
|                               | Values <dl< td=""><td>0</td><td>0</td><td>0</td><td>0</td><td></td><td>0</td><td>0</td></dl<>  | 0                      | 0       | 0                                              | 0                                                                                                              |                                  | 0                                                                                                               | 0                 |
| BH2                           |                                                                                                | e na na na na na na na |         |                                                | SAMPAGE STATE                                                                                                  |                                  |                                                                                                                 |                   |
| fictation teached all for     | 6/16/1998                                                                                      | 6.37                   |         |                                                | 139                                                                                                            |                                  |                                                                                                                 |                   |
|                               | 10/20/1998                                                                                     | 6.14                   |         |                                                | 182                                                                                                            |                                  |                                                                                                                 |                   |
|                               | 7/4/1999                                                                                       | 5.48                   |         | 4                                              | 259                                                                                                            |                                  |                                                                                                                 |                   |
|                               | 10/30/1999                                                                                     | 5.77                   |         | 2                                              | 206                                                                                                            |                                  |                                                                                                                 |                   |
|                               | 6/4/2000                                                                                       | 5.44                   |         | 4                                              | 236                                                                                                            |                                  |                                                                                                                 |                   |
|                               | 10/22/2000                                                                                     | 5.88                   |         | 2.6                                            | 220                                                                                                            |                                  |                                                                                                                 |                   |
|                               | 6/5/2001                                                                                       | 6.4                    | 5.97    | 2                                              | 615                                                                                                            |                                  | 66                                                                                                              | 648               |
|                               | 10/25/2001                                                                                     | 6.35                   | 6.33    | 2.7                                            | 334                                                                                                            | 457                              | 00                                                                                                              | 040               |
|                               | 6/11/2002                                                                                      | 7.4                    | 6.74    |                                                | 310                                                                                                            | 645                              | 77                                                                                                              | 361               |
|                               | 9/23/2002                                                                                      | 6.78                   | 6.78    |                                                | 123                                                                                                            | 040                              | 97                                                                                                              | 187               |
|                               |                                                                                                |                        |         |                                                | .20                                                                                                            |                                  | 51                                                                                                              | 107               |
|                               | Mean                                                                                           | 6.2                    | 6.45    | 2.88                                           | 262                                                                                                            | 551                              | 80                                                                                                              | 399               |
|                               | Median                                                                                         | 6.24                   | 6.53    | 2.65                                           | 228                                                                                                            | 551                              | 77                                                                                                              | 361               |
|                               | Values                                                                                         | 10                     | 4       | 6                                              | 10                                                                                                             | 2                                | 3                                                                                                               | 3                 |
|                               | Values <dl< th=""><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th></dl<> | 0                      | 0       | 0                                              | 0                                                                                                              | 0                                | 0                                                                                                               | 0                 |
| BH4                           |                                                                                                |                        |         | 23839997-23987                                 |                                                                                                                |                                  |                                                                                                                 | State of the      |
|                               | 6/15/1998                                                                                      | 3.45                   |         | n an an an an ang kapaténé (kérang pélépéké) ( | 625                                                                                                            |                                  |                                                                                                                 |                   |
|                               | 10/20/1998                                                                                     | 5.88                   |         |                                                | 98                                                                                                             |                                  |                                                                                                                 |                   |
|                               | 10/30/1999                                                                                     | 5.95                   |         | 1                                              | 158                                                                                                            |                                  |                                                                                                                 |                   |
|                               | 6/4/2000                                                                                       | 3.7                    |         | 2                                              | 187                                                                                                            |                                  |                                                                                                                 |                   |
|                               | 10/22/2000                                                                                     | 4.7                    |         | 2.3                                            | 422                                                                                                            |                                  |                                                                                                                 |                   |
|                               | 6/5/2001                                                                                       | 5.6                    | 5.28    | 1.9                                            | 182                                                                                                            |                                  | 33                                                                                                              | 212               |
|                               | 10/25/2001                                                                                     | 6.25                   | 7.02    | 2.1                                            | 152                                                                                                            | 265                              |                                                                                                                 |                   |
|                               | 9/23/2002                                                                                      | 6.69                   | 6.69    |                                                | 132                                                                                                            |                                  | 90                                                                                                              | 194               |
|                               | Mean                                                                                           | 5.28                   | 6.33    | 1.9                                            | 244                                                                                                            | 265                              | 62                                                                                                              | 203               |
|                               | Median                                                                                         | 5.74                   | 6.69    | 2                                              | 170                                                                                                            | 265                              | 62                                                                                                              | 203               |
|                               | Values                                                                                         | 8                      | 3       | 5                                              | 8                                                                                                              | 1                                | 2                                                                                                               | 2                 |
|                               | Values <dl< td=""><td>Ō</td><td>0</td><td>Ũ</td><td>Õ</td><td>0</td><td>0</td><td>0</td></dl<> | Ō                      | 0       | Ũ                                              | Õ                                                                                                              | 0                                | 0                                                                                                               | 0                 |
| DUZOF                         |                                                                                                |                        |         | Million palaoitation                           | Telephone and the second second second second second second second second second second second second second s | ha Manya ana ang malan manana an | heeli (asan asan kunaar maa ar                                                                                  | The second second |
| BH12A                         | 6/29/1998                                                                                      | 6.34                   |         |                                                | 498                                                                                                            |                                  |                                                                                                                 |                   |
|                               | 10/19/1998                                                                                     | 6.7                    |         |                                                | 498<br>159                                                                                                     |                                  |                                                                                                                 |                   |
|                               |                                                                                                |                        |         |                                                |                                                                                                                |                                  |                                                                                                                 |                   |
| Faro Phy                      | sical Parameters                                                                               |                        | Р       | age 6 of 8                                     |                                                                                                                |                                  |                                                                                                                 |                   |
|                               |                                                                                                |                        |         | -                                              |                                                                                                                | ,                                |                                                                                                                 |                   |
|                               |                                                                                                |                        |         |                                                |                                                                                                                |                                  |                                                                                                                 |                   |

## Faro Site - Select Groundwater Quality Listing, 1998-2002, Physical Parameters

# Faro Site - Select Groundwater Quality Listing, 1998-2002, Physical Parameters

| Station                                  | n Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PH-F                                                                                                                                | PH-L                                        | TEMP-C                                                      | S04-T                                                                                                           | COND                                    | ALK-T                         | HARD-T                                    |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------|-------------------------------------------|
|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | pH unit                                                                                                                             | pH unit                                     | 1999 (B. 1999)                                              | mg/L                                                                                                            | µS/cm                                   | mall                          | (CACO3)                                   |
| an an an an an an an an an an an an an a | 10/30/1999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Plan Ministra                                                                                                                       |                                             |                                                             | 259                                                                                                             | μοιτικ                                  | mg/L                          | mg/L                                      |
|                                          | 6/26/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6.94                                                                                                                                |                                             | 6                                                           | 578                                                                                                             |                                         |                               |                                           |
|                                          | 10/22/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6.76                                                                                                                                |                                             | 1.2                                                         | 288                                                                                                             |                                         |                               |                                           |
|                                          | 6/4/2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6.2                                                                                                                                 | 6.72                                        | 1.9                                                         | 583                                                                                                             |                                         | 246                           | 988                                       |
|                                          | 10/25/2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7.16                                                                                                                                | 6.77                                        | 0.9                                                         | 382                                                                                                             | 634                                     | 240                           | 300                                       |
|                                          | 6/11/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 7.4                                                                                                                                 | 7.25                                        | 0.0                                                         | 1170                                                                                                            | 2070                                    | 222                           | 1370                                      |
|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                     |                                             |                                                             | 1110                                                                                                            | 2010                                    | <i></i>                       | 1570                                      |
|                                          | Mean                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6.79                                                                                                                                | 6.91                                        | 2.5                                                         | 490                                                                                                             | 1352                                    | 234                           | 1179                                      |
|                                          | Median                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6.76                                                                                                                                | 6.77                                        | 1.6                                                         | 440                                                                                                             | 1352                                    | 234                           | 1179                                      |
|                                          | Values                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 7                                                                                                                                   | 3                                           | 4                                                           | 8                                                                                                               | 2                                       | 2                             | 2                                         |
|                                          | Values <dl< th=""><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th></dl<>                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0                                                                                                                                   | 0                                           | 0                                                           | 0                                                                                                               | 0                                       | 0                             | 0                                         |
| BH12B                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                     | tengan Sunga sang                           | ager Sor St. Govern                                         |                                                                                                                 |                                         |                               |                                           |
|                                          | 6/29/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6.43                                                                                                                                | ANNA ANA ANA ANA ANA ANA ANA ANA ANA AN     |                                                             | 562                                                                                                             | an na an ann an an an an an an an an an |                               |                                           |
|                                          | 10/19/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6.83                                                                                                                                |                                             |                                                             | 488                                                                                                             |                                         |                               |                                           |
|                                          | 10/30/1999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6.75                                                                                                                                |                                             | 0                                                           | 805                                                                                                             |                                         |                               |                                           |
|                                          | 6/26/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6.62                                                                                                                                |                                             | 5                                                           | 633                                                                                                             |                                         |                               |                                           |
|                                          | 10/22/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6.81                                                                                                                                |                                             | 1.5                                                         | 257                                                                                                             |                                         |                               |                                           |
|                                          | 6/4/2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7.7                                                                                                                                 | 6.65                                        | 1.6                                                         | 628                                                                                                             |                                         | 226                           | 954                                       |
|                                          | 6/11/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 7.4                                                                                                                                 | 7.31                                        |                                                             | 1060                                                                                                            | 2004                                    | 222                           | 1280                                      |
|                                          | 9/25/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 7.64                                                                                                                                | 7.64                                        |                                                             | 340                                                                                                             |                                         | 182                           | 560                                       |
|                                          | Mean                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 7.02                                                                                                                                | 7.2                                         | 2                                                           | 597                                                                                                             | 2004                                    | 210                           | 931                                       |
|                                          | Median                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6.82                                                                                                                                | 7.31                                        | 1.6                                                         | 595                                                                                                             | 2004                                    | 222                           | 954                                       |
|                                          | Values                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 8                                                                                                                                   | 3                                           | 4                                                           | 8                                                                                                               | 1                                       | 3                             | 3                                         |
|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •                                                                                                                                   |                                             |                                                             |                                                                                                                 |                                         |                               |                                           |
|                                          | Values <dl< td=""><td>Õ</td><td>0<br/>0</td><td>4<br/>0</td><td>0</td><td>0</td><td>0</td><td>Ő</td></dl<>                                                                                                                                                                                                                                                                                                                                                                                                                                      | Õ                                                                                                                                   | 0<br>0                                      | 4<br>0                                                      | 0                                                                                                               | 0                                       | 0                             | Ő                                         |
| BH13B                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                     |                                             |                                                             |                                                                                                                 |                                         |                               |                                           |
| BH13B                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0                                                                                                                                   |                                             |                                                             | 0                                                                                                               |                                         |                               |                                           |
| BH13B                                    | Values <dl< td=""><td></td><td></td><td>0</td><td>0<br/>416</td><td></td><td></td><td></td></dl<>                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                     |                                             | 0                                                           | 0<br>416                                                                                                        |                                         |                               |                                           |
| BH13B                                    | Values <dl<br>10/19/1998</dl<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>0</b><br>6.9                                                                                                                     |                                             | <b>0</b><br>0                                               | 0<br>416<br>603                                                                                                 |                                         |                               |                                           |
| BH13B                                    | Values <dl<br>10/19/1998<br/>10/30/1999</dl<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>0</b><br>6.9<br>6.85                                                                                                             |                                             | 0<br>0<br>2                                                 | 0<br>416<br>603<br>379                                                                                          | 0                                       |                               |                                           |
| BH13B                                    | Values <dl<br>10/19/1998<br/>10/30/1999<br/>10/22/2000</dl<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0<br>6.9<br>6.85<br>6.68                                                                                                            | 0                                           | <b>0</b><br>0                                               | 0<br>416<br>603                                                                                                 |                                         |                               |                                           |
| BH13B                                    | Values <dl<br>10/19/1998<br/>10/30/1999<br/>10/22/2000<br/>10/25/2001<br/>9/25/2002</dl<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0<br>6.9<br>6.85<br>6.68<br>7.15<br>8.09                                                                                            | 0<br>6.93<br>8.09                           | 0<br>2<br>0.6                                               | 0<br>416<br>603<br>379<br>513<br>439                                                                            | 0<br>611                                | 0<br>76                       | 0<br>441                                  |
| BH13B                                    | Values <dl<br>10/19/1998<br/>10/30/1999<br/>10/22/2000<br/>10/25/2001<br/>9/25/2002<br/>Mean</dl<br>                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0<br>6.9<br>6.85<br>6.68<br>7.15<br>8.09<br>7.13                                                                                    | 0<br>6.93<br>8.09<br>7.51                   | 0<br>0<br>2<br>0.6<br>0.9                                   | 0<br>416<br>603<br>379<br>513<br>439<br>470                                                                     | 0<br>611<br>611                         | 0<br>76<br>76                 | 0<br>441<br>441                           |
| BH13B                                    | Values <dl<br>10/19/1998<br/>10/30/1999<br/>10/22/2000<br/>10/25/2001<br/>9/25/2002<br/>Mean<br/>Median</dl<br>                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0<br>6.9<br>6.85<br>6.68<br>7.15<br>8.09<br>7.13<br>6.9                                                                             | 0<br>6.93<br>8.09<br>7.51<br>7.51           | 0<br>0<br>2<br>0.6<br>0.9<br>0.6                            | 0<br>416<br>603<br>379<br>513<br>439<br>470<br>439                                                              | 0<br>611<br>611<br>611                  | 0<br>76<br>76<br>76<br>76     | 0<br>441<br>441<br>441                    |
| BH13B                                    | Values <dl<br>10/19/1998<br/>10/30/1999<br/>10/22/2000<br/>10/25/2001<br/>9/25/2002<br/>Mean</dl<br>                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0<br>6.9<br>6.85<br>6.68<br>7.15<br>8.09<br>7.13                                                                                    | 0<br>6.93<br>8.09<br>7.51                   | 0<br>0<br>2<br>0.6<br>0.9                                   | 0<br>416<br>603<br>379<br>513<br>439<br>470                                                                     | 0<br>611<br>611                         | 0<br>76<br>76                 | 0<br>441<br>441                           |
|                                          | Values <dl<br>10/19/1998<br/>10/30/1999<br/>10/22/2000<br/>10/25/2001<br/>9/25/2002<br/>Mean<br/>Median<br/>Values</dl<br>                                                                                                                                                                                                                                                                                                                                                                                                                      | 0<br>6.9<br>6.85<br>6.68<br>7.15<br>8.09<br>7.13<br>6.9<br>5                                                                        | 0<br>6.93<br>8.09<br>7.51<br>7.51<br>2      | 0<br>2<br>0.6<br>0.9<br>0.6<br>3                            | 0<br>416<br>603<br>379<br>513<br>439<br>470<br>439<br>5                                                         | 0<br>611<br>611<br>611<br>1             | 0<br>76<br>76<br>76<br>1      | 0<br>441<br>441<br>441<br>1               |
| BH13B                                    | Values <dl<br>10/19/1998<br/>10/30/1999<br/>10/22/2000<br/>10/25/2001<br/>9/25/2002<br/>Mean<br/>Median<br/>Values<br/>Values <dl< td=""><td>0<br/>6.9<br/>6.85<br/>6.68<br/>7.15<br/>8.09<br/>7.13<br/>6.9<br/>5<br/>0</td><td>0<br/>6.93<br/>8.09<br/>7.51<br/>7.51<br/>2</td><td>0<br/>2<br/>0.6<br/>0.9<br/>0.6<br/>3</td><td>0<br/>416<br/>603<br/>379<br/>513<br/>439<br/>470<br/>439<br/>5<br/>0</td><td>0<br/>611<br/>611<br/>611<br/>1</td><td>0<br/>76<br/>76<br/>76<br/>1</td><td>0<br/>441<br/>441<br/>441<br/>1</td></dl<></dl<br> | 0<br>6.9<br>6.85<br>6.68<br>7.15<br>8.09<br>7.13<br>6.9<br>5<br>0                                                                   | 0<br>6.93<br>8.09<br>7.51<br>7.51<br>2      | 0<br>2<br>0.6<br>0.9<br>0.6<br>3                            | 0<br>416<br>603<br>379<br>513<br>439<br>470<br>439<br>5<br>0                                                    | 0<br>611<br>611<br>611<br>1             | 0<br>76<br>76<br>76<br>1      | 0<br>441<br>441<br>441<br>1               |
|                                          | Values <dl<br>10/19/1998<br/>10/30/1999<br/>10/22/2000<br/>10/25/2001<br/>9/25/2002<br/>Mean<br/>Median<br/>Values<br/>Values <dl<br>6/29/1998</dl<br></dl<br>                                                                                                                                                                                                                                                                                                                                                                                  | 0<br>6.9<br>6.85<br>6.68<br>7.15<br>8.09<br>7.13<br>6.9<br>5<br>0<br>6.56                                                           | 0<br>6.93<br>8.09<br>7.51<br>7.51<br>2      | 0<br>2<br>0.6<br>0.9<br>0.6<br>3                            | 0<br>416<br>603<br>379<br>513<br>439<br>470<br>439<br>5<br>0                                                    | 0<br>611<br>611<br>611<br>1             | 0<br>76<br>76<br>76<br>1      | 0<br>441<br>441<br>441<br>1               |
|                                          | Values <dl<br>10/19/1998<br/>10/30/1999<br/>10/22/2000<br/>10/25/2001<br/>9/25/2002<br/>Mean<br/>Median<br/>Values<br/>Values <dl<br>6/29/1998<br/>10/19/1998</dl<br></dl<br>                                                                                                                                                                                                                                                                                                                                                                   | 0<br>6.9<br>6.85<br>6.68<br>7.15<br>8.09<br>7.13<br>6.9<br>5<br>0<br>6.56<br>6.7                                                    | 0<br>6.93<br>8.09<br>7.51<br>7.51<br>2      | 0<br>2<br>0.6<br>0.9<br>0.6<br>3<br>0                       | 0<br>416<br>603<br>379<br>513<br>439<br>470<br>439<br>5<br>0<br>723<br>974                                      | 0<br>611<br>611<br>611<br>1             | 0<br>76<br>76<br>76<br>1      | 0<br>441<br>441<br>441<br>1               |
|                                          | Values <dl<br>10/19/1998<br/>10/30/1999<br/>10/22/2000<br/>10/25/2001<br/>9/25/2002<br/>Mean<br/>Median<br/>Values<br/>Values <dl<br>6/29/1998<br/>10/19/1998<br/>10/30/1999</dl<br></dl<br>                                                                                                                                                                                                                                                                                                                                                    | 0<br>6.9<br>6.85<br>6.68<br>7.15<br>8.09<br>7.13<br>6.9<br>5<br>0<br>6.56<br>6.7<br>5.35                                            | 0<br>6.93<br>8.09<br>7.51<br>7.51<br>2      | 0<br>2<br>0.6<br>0.9<br>0.6<br>3<br>0                       | 0<br>416<br>603<br>379<br>513<br>439<br>470<br>439<br>5<br>0<br>723<br>974<br>544                               | 0<br>611<br>611<br>611<br>1             | 0<br>76<br>76<br>76<br>1      | 0<br>441<br>441<br>441<br>1               |
|                                          | Values <dl<br>10/19/1998<br/>10/30/1999<br/>10/22/2000<br/>10/25/2001<br/>9/25/2002<br/>Mean<br/>Median<br/>Values<br/>Values <dl<br>6/29/1998<br/>10/19/1998<br/>10/30/1999<br/>6/26/2000</dl<br></dl<br>                                                                                                                                                                                                                                                                                                                                      | 0<br>6.9<br>6.85<br>6.68<br>7.15<br>8.09<br>7.13<br>6.9<br>5<br>0<br>6.56<br>6.7<br>5.35<br>7.85                                    | 0<br>6.93<br>8.09<br>7.51<br>7.51<br>2      | 0<br>2<br>0.6<br>0.9<br>0.6<br>3<br>0                       | 0<br>416<br>603<br>379<br>513<br>439<br>470<br>439<br>5<br>0<br>723<br>974<br>544<br>805                        | 0<br>611<br>611<br>611<br>1             | 0<br>76<br>76<br>76<br>1      | 0<br>441<br>441<br>441<br>1               |
|                                          | Values <dl<br>10/19/1998<br/>10/30/1999<br/>10/22/2000<br/>10/25/2001<br/>9/25/2002<br/>Mean<br/>Median<br/>Values<br/>Values <dl<br>6/29/1998<br/>10/19/1998<br/>10/30/1999<br/>6/26/2000<br/>10/22/2000</dl<br></dl<br>                                                                                                                                                                                                                                                                                                                       | 0<br>6.9<br>6.85<br>6.68<br>7.15<br>8.09<br>7.13<br>6.9<br>5<br>0<br>6.56<br>6.7<br>5.35<br>7.85<br>6.9                             | 0<br>6.93<br>8.09<br>7.51<br>7.51<br>2<br>0 | 0<br>0<br>2<br>0.6<br>0.9<br>0.6<br>3<br>0<br>2<br>4<br>2.9 | 0<br>416<br>603<br>379<br>513<br>439<br>470<br>439<br>5<br>0<br>723<br>974<br>544<br>805<br>804                 | 0<br>611<br>611<br>611<br>1             | 0<br>76<br>76<br>76<br>1<br>0 | 0<br>441<br>441<br>441<br>1<br>0          |
|                                          | Values <dl<br>10/19/1998<br/>10/30/1999<br/>10/22/2000<br/>10/25/2001<br/>9/25/2002<br/>Mean<br/>Median<br/>Values<br/>Values <dl<br>6/29/1998<br/>10/19/1998<br/>10/30/1999<br/>6/26/2000<br/>10/22/2000<br/>6/4/2001</dl<br></dl<br>                                                                                                                                                                                                                                                                                                          | 0<br>6.9<br>6.85<br>6.68<br>7.15<br>8.09<br>7.13<br>6.9<br>5<br>0<br>6.56<br>6.7<br>5.35<br>7.85<br>6.9<br>6.9<br>6.9               | 0<br>6.93<br>8.09<br>7.51<br>7.51<br>2<br>0 | 0<br>2<br>0.6<br>0.9<br>0.6<br>3<br>0                       | 0<br>416<br>603<br>379<br>513<br>439<br>470<br>439<br>5<br>0<br>723<br>974<br>544<br>805<br>804<br>1674         | 0<br>611<br>611<br>1<br>0               | 0<br>76<br>76<br>1<br>0       | 0<br>441<br>441<br>1<br>0                 |
|                                          | Values <dl<br>10/19/1998<br/>10/30/1999<br/>10/22/2000<br/>10/25/2001<br/>9/25/2002<br/>Mean<br/>Median<br/>Values<br/>Values <dl<br>6/29/1998<br/>10/19/1998<br/>10/30/1999<br/>6/26/2000<br/>10/22/2000<br/>6/4/2001<br/>6/11/2002</dl<br></dl<br>                                                                                                                                                                                                                                                                                            | 0<br>6.9<br>6.85<br>6.68<br>7.15<br>8.09<br>7.13<br>6.9<br>5<br>0<br>6.56<br>6.7<br>5.35<br>7.85<br>6.9<br>6.9<br>6.9<br>7.2        | 0<br>6.93<br>8.09<br>7.51<br>7.51<br>2<br>0 | 0<br>0<br>2<br>0.6<br>0.9<br>0.6<br>3<br>0<br>2<br>4<br>2.9 | 0<br>416<br>603<br>379<br>513<br>439<br>470<br>439<br>5<br>0<br>723<br>974<br>544<br>805<br>804<br>1674<br>1780 | 0<br>611<br>611<br>611<br>1             | 0<br>76<br>76<br>76<br>1<br>0 | 0<br>441<br>441<br>1<br>0<br>2307<br>2340 |
|                                          | Values <dl<br>10/19/1998<br/>10/30/1999<br/>10/22/2000<br/>10/25/2001<br/>9/25/2002<br/>Mean<br/>Median<br/>Values<br/>Values <dl<br>6/29/1998<br/>10/19/1998<br/>10/30/1999<br/>6/26/2000<br/>10/22/2000<br/>6/4/2001<br/>6/11/2002<br/>9/25/2002</dl<br></dl<br>                                                                                                                                                                                                                                                                              | 0<br>6.9<br>6.85<br>6.68<br>7.15<br>8.09<br>7.13<br>6.9<br>5<br>0<br>6.56<br>6.7<br>5.35<br>7.85<br>6.9<br>6.9<br>6.9               | 0<br>6.93<br>8.09<br>7.51<br>7.51<br>2<br>0 | 0<br>0<br>2<br>0.6<br>0.9<br>0.6<br>3<br>0<br>2<br>4<br>2.9 | 0<br>416<br>603<br>379<br>513<br>439<br>470<br>439<br>5<br>0<br>723<br>974<br>544<br>805<br>804<br>1674         | 0<br>611<br>611<br>1<br>0               | 0<br>76<br>76<br>1<br>0       | 0<br>441<br>441<br>1<br>0                 |
|                                          | Values <dl<br>10/19/1998<br/>10/30/1999<br/>10/22/2000<br/>10/25/2001<br/>9/25/2002<br/>Mean<br/>Median<br/>Values<br/>Values <dl<br>6/29/1998<br/>10/19/1998<br/>10/30/1999<br/>6/26/2000<br/>10/22/2000<br/>6/4/2001<br/>6/11/2002</dl<br></dl<br>                                                                                                                                                                                                                                                                                            | 0<br>6.9<br>6.85<br>6.68<br>7.15<br>8.09<br>7.13<br>6.9<br>5<br>0<br>6.56<br>6.7<br>5.35<br>7.85<br>6.9<br>6.9<br>6.9<br>6.9<br>7.2 | 0<br>6.93<br>8.09<br>7.51<br>7.51<br>2<br>0 | 0<br>0<br>2<br>0.6<br>0.9<br>0.6<br>3<br>0<br>2<br>4<br>2.9 | 0<br>416<br>603<br>379<br>513<br>439<br>470<br>439<br>5<br>0<br>723<br>974<br>544<br>805<br>804<br>1674<br>1780 | 0<br>611<br>611<br>1<br>0               | 0<br>76<br>76<br>76<br>1<br>0 | 0<br>441<br>441<br>1<br>0<br>2307<br>2340 |

Faro Physical Parameters

# Faro Site - Select Groundwater Quality Listing, 1998-2002, Physical Parameters

| Station                               | Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PH-F    | PH-L       | TEMP-C                  | SO4-T | COND                                        | ALK-T                                    | HARD-T<br>(CACO3) |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------|-------------------------|-------|---------------------------------------------|------------------------------------------|-------------------|
|                                       | <ul> <li>A the grade of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s</li></ul> | pH unit | pH unit    |                         | mg/L  | μS/cm                                       | mg/L                                     | mg/L              |
| ALL STRUCTURE CONTINUES OF STRUCTURES | Median                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6.9     | 7.84       | 2.5                     | 890   | 3434                                        | 401                                      | 2340              |
|                                       | Values                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 8       | 3          | 4                       | 8     | 1                                           | 3                                        | 3                 |
|                                       | Values <dl< th=""><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th></dl<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0       | 0          | 0                       | 0     | 0                                           | 0                                        | 0                 |
| BH14B                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         | napero ant | erriter ver of a second |       |                                             | n an |                   |
|                                       | 6/29/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6.53    |            |                         | 755   | an teristantun and anno 1997 in 1997 (1997) |                                          |                   |
|                                       | 10/19/1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6.78    |            |                         | 948   |                                             |                                          |                   |
|                                       | 10/30/1999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5.79    |            | 1                       | 1063  |                                             |                                          |                   |
|                                       | 6/3/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6.46    |            | 3                       | 958   |                                             |                                          |                   |
|                                       | 10/22/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6.94    |            | 2.6                     | 872   |                                             |                                          |                   |
|                                       | 6/4/2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 7.1     | 6.91       | 1.4                     | 1523  |                                             | 420                                      | 2103              |
|                                       | 10/25/2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 7.14    | 7.42       | 2.4                     | 2000  | 2056                                        |                                          |                   |
|                                       | 6/11/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 7.2     | 7.88       |                         | 1800  | 3289                                        | 393                                      | 2390              |
|                                       | 9/25/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 7.53    | 7.53       |                         | 1700  |                                             | 389                                      | 2340              |
|                                       | Mean                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6.83    | 7.44       | 2.1                     | 1291  | 2672                                        | 401                                      | 2278              |
|                                       | Median                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6.94    | 7.48       | 2.4                     | 1063  | 2672                                        | 393                                      | 2340              |
|                                       | Values                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 9       | 4          | 5                       | 9     | 2                                           | 3                                        | 3                 |
|                                       | Values <dl< td=""><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></dl<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0       | 0          | 0                       | 0     | 0                                           | 0                                        | 0                 |

-1<sub>0000</sub>

### Faro Site - Select Groundwater Quality Listing, 1998-2002, Dissolved Metals

| Station      | Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | AG-D<br>mg/L                                                                                             |                           | AS-D<br>mg/L                                                                           |                                                                                      | WEINS &                                                                            | <u>Eul</u> à d                                                                            |                                                      |                                                                             | CD-D<br>mg/L                                                                                         |                                                                                                       | ja ogalari                |                                                                                           | 9. Japan                                                                        |                                              | 4630 224                                                             | (2015)<br>1                                                                  | MN-D<br>mg/L                                                                                 | 63 NGA 140                                                                                               | 0364052                                                                                                         |                                                                                                  | P-Q<br>۲۱۵۳                                          | P8-D<br>mg/L                                                                          |                                              | SB-D<br>mg/L                                                                                 |                                                                                         |                                               | 19 (G)                                                                                | SR-D<br>mg/L                                                | e saie                                                                                              | V-D<br>mg/L                                                                            | W-D<br>mg/L                                                  | ZN-D<br>mg/L                                                                      |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------|
| X16A         | 6/1/1998<br>10/31/1998<br>10/29/1999<br>5/31/2000<br>10/9/2000<br>6/5/2001<br>9/5/2001<br>6/10/2002<br>9/23/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <,003<br><,003<br><,003<br><,003<br><,003<br><,003<br><,009004<br><0,00002<br><0,00002                   |                           | <.02<br><.005<br><.005<br><.005<br><.005<br><.005<br><0.001<br><0.0005<br><0.0005      |                                                                                      | 0.05<br>0.032<br>0.143<br>0.031<br>0.042<br>0.212<br>0.16<br>0.09<br>0.13          | 0,002<br><,001<br><,001<br><,001<br><,001<br><,001<br><0,002<br><0,001<br><0,001          | <.04<br><.04<br><.04<br><.05<br><.05<br><.05<br><.05 | 40,2<br>47,9<br>31,4<br>39,8<br>38,1<br>42,7<br>70,5<br>48,4<br>63,6        | <0.00005                                                                                             | <.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><0.0006<br><0.0003<br><0.0003                   | <0.001                    | 0.005<br><.002<br><.002<br><.002<br><.002<br>0.004<br><.002<br><0.002<br><0.001<br><0.001 | 0.26<br>0.27<br><.01<br><.01<br>0.06<br>0.04<br><0.03<br><0.03<br><0.03         | <1                                           | 0.026<br><.005<br><.005<br><.005<br><.005<br><.005<br>0.009          | 10.4<br>12.4<br>7,1<br>9.6<br>10<br>10.3<br>21,3<br>11.5<br>16,4             | 0,1<br>0,03<br><,01<br>0,3<br>0,15<br>0,0007<br>0,0093<br>0,0004                             | 0.01<br>0.007<br><,002<br><,002<br><,002<br><,002<br>0.002<br>0.002<br>0.002<br>0.002                    | 2<br>3<br>2<br>3<br>4<br>2<br>2<br>7<br>2<br>3<br>4<br>2<br>2<br>7<br>2<br>7<br>2                               | 0.009<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><0.002<br><0.001<br><0.001        | 0.19<br>1.37<br><,04<br><1<br>3<br><1                | <.02<br><.01<br><.01<br><.01<br><.01<br><.001<br><0.001<br><0.0005<br><0.0005         | 8<br>8<br>5<br>1 1<br>20<br>9                | <.03<br><.03<br><.03<br><.03<br><.03<br><.03<br><.03<br>0.007<br>0.0014<br><0.0005           | <.03<br><.03<br><.005<br><.005<br><.005<br><.005<br><.002<br>0.002<br>0.002             | 4,1<br>3,4<br>1,9<br>4<br>3,7<br>1,5          | <.01<br><.01<br><.01<br><.01<br><.01<br><.01<br><0.001<br><0.0005<br><0.0005          | 0.111<br>0.155<br>0.101<br>0.142<br>0.15<br>0.132           | 0.005<br>0.022<br><.005<br><.005<br>0.006<br><.005<br><0.01<br><0.0002<br><0.0002                   |                                                                                        | <.03<br><.03<br><.03<br><.03<br><.03<br><.03                 | 0.01<br><.01<br><.01<br>0.09<br>0.04<br>0.02<br>0.006<br>0.005<br><0.005          |
|              | Mean<br>Median<br>Values<br>Values <dl< td=""><td>0.00201<br/>0.003<br/>9<br/>9</td><td>0.05<br/>0.05<br/>9<br/>5</td><td>0.0054<br/>0.005<br/>9<br/>8</td><td>0.07<br/>0.05<br/>9<br/>9</td><td>0,099<br/>0.09<br/>9<br/>0</td><td>0.001<br/>0.001<br/>9<br/>8</td><td>0.04<br/>0.04<br/>6<br/>5</td><td>47<br/>42.7<br/>9<br/>0</td><td>0.0008<br/>0.001<br/>9<br/>8</td><td>0.0035<br/>0.005<br/>9<br/>9</td><td>0.005<br/>0.005<br/>9<br/>8</td><td>0.002<br/>0.002<br/>9<br/>7</td><td>0.08<br/>0.03<br/>9<br/>5</td><td>1<br/>1<br/>9<br/>7</td><td>0.009<br/>0.005<br/>6<br/>4</td><td>12.1<br/>10.4<br/>9<br/>0</td><td>0.1034<br/>0.03<br/>9<br/>1</td><td>0.003<br/>0.002<br/>9<br/>4</td><td>2<br/>2<br/>9<br/>2</td><td>0.004<br/>0.005<br/>9<br/>8</td><td>1.1<br/>1<br/>6<br/>3</td><td>0,008<br/>0.01<br/>9<br/>9</td><td>10<br/>8<br/>6<br/>0</td><td>0.021<br/>0.03<br/>9<br/>7</td><td>0.01<br/>0.005<br/>9<br/>7</td><td>3.1<br/>3.6<br/>6<br/>0</td><td>0.0069<br/>0.01<br/>9<br/>9</td><td>0.132<br/>0.137<br/>6<br/>0</td><td>0.0066<br/>0.005<br/>9<br/>6</td><td>0.014<br/>0.005<br/>9<br/>8</td><td>0.03<br/>0.03<br/>\$<br/>6</td><td>0.022<br/>0.01<br/>9<br/>3</td></dl<>                                         | 0.00201<br>0.003<br>9<br>9                                                                               | 0.05<br>0.05<br>9<br>5    | 0.0054<br>0.005<br>9<br>8                                                              | 0.07<br>0.05<br>9<br>9                                                               | 0,099<br>0.09<br>9<br>0                                                            | 0.001<br>0.001<br>9<br>8                                                                  | 0.04<br>0.04<br>6<br>5                               | 47<br>42.7<br>9<br>0                                                        | 0.0008<br>0.001<br>9<br>8                                                                            | 0.0035<br>0.005<br>9<br>9                                                                             | 0.005<br>0.005<br>9<br>8  | 0.002<br>0.002<br>9<br>7                                                                  | 0.08<br>0.03<br>9<br>5                                                          | 1<br>1<br>9<br>7                             | 0.009<br>0.005<br>6<br>4                                             | 12.1<br>10.4<br>9<br>0                                                       | 0.1034<br>0.03<br>9<br>1                                                                     | 0.003<br>0.002<br>9<br>4                                                                                 | 2<br>2<br>9<br>2                                                                                                | 0.004<br>0.005<br>9<br>8                                                                         | 1.1<br>1<br>6<br>3                                   | 0,008<br>0.01<br>9<br>9                                                               | 10<br>8<br>6<br>0                            | 0.021<br>0.03<br>9<br>7                                                                      | 0.01<br>0.005<br>9<br>7                                                                 | 3.1<br>3.6<br>6<br>0                          | 0.0069<br>0.01<br>9<br>9                                                              | 0.132<br>0.137<br>6<br>0                                    | 0.0066<br>0.005<br>9<br>6                                                                           | 0.014<br>0.005<br>9<br>8                                                               | 0.03<br>0.03<br>\$<br>6                                      | 0.022<br>0.01<br>9<br>3                                                           |
| X16B         | 6/1/1998<br>10/31/1998<br>6/19/1999<br>10/29/1999<br>5/31/2000<br>10/9/2000<br>6/5/2001<br>9/5/2001<br>6/10/2002<br>9/23/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <.003<br><.003<br><.003<br><.003<br><.003<br><.003<br><.003<br><.003<br><0.00002<br><0.00002<br><.000002 | 0.011                     | <.02<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><0.0005<br><0.0005       | <0.1                                                                                 | 0.057<br>0.043<br>0.075<br>0.171<br>0.044<br>0.05<br>0.272<br>0.31<br>0.14<br>0.13 | 0.003<br><.001<br><.001<br><.001<br><.001<br><.001<br><0.001<br><0.001<br><0.001          | <.04<br><.04<br><.04<br><.05<br><.05<br><.05         | 45.6<br>61.9<br>60<br>52.8<br>48.5<br>49.2<br>61.3<br>57.6<br>63.8<br>62.6  |                                                                                                      | 0,007<br><,005<br><,005<br><,005<br><,005<br><,005<br><,005<br><,005<br><,0003<br><,00003<br><,0,0003 | <0.001                    | 0,009<br><,002<br>0,005<br><,002<br><,002<br>0,005<br><,002<br><0,001<br><0,001<br><0,001 | 0.23<br><.01<br>0.03<br><.01<br><.01<br>0.07<br>0.01<br><0.03<br><0.03<br><0.03 | 1 1 2 1 1 2 2 2 2 2 2                        | 0.021<br><,005<br>0.015<br><,005<br><,005<br><,005<br>0.013          | 13.5<br>17.5<br>16.2<br>14.2<br>13.1<br>13.6<br>16.7<br>13.2<br>16.9<br>16.2 | 0.04<br><.01<br><.01<br><.01<br>0.24<br>0.24<br>0.24<br>0.12<br>0.0046<br><0.0003<br><0.0003 | 0.006<br>0.005<br>0.002<br><.002<br><.002<br><.002<br><.002<br><.002<br>0.002<br>0.002<br>0.002          | 1<br>3<br>4<br>3<br>2<br>5<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 | <.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><0.001<br><0.001         | <.04<br><.04<br><.04<br><.04<br><1<br>2<br><1        | <.02<br><.01<br><.01<br><.01<br><.01<br><.01<br><.01<br><0.0005<br><0.0005<br><0.0005 | 8<br>14<br>8<br>9<br>29<br>9                 | <.03<br><.03<br><.03<br><.03<br><.03<br><.03<br><.03<br>0.0067<br>0.0024<br><0.0005          | <.03<br><.03<br><.005<br><.005<br><.005<br><.005<br><.005<br>0.001<br>0.002<br>0.002    | 3.8<br>3.2<br>4.3<br>3.2<br>4.4<br>4.5<br>2.4 | <,01<br><,01<br><,01<br><,01<br><,01<br><,01<br><,01<br><0,0005<br><0,0005<br><0,0005 | 0,141<br>0,219<br>0,208<br>0,179<br>0,172<br>0,193<br>0,206 | 0.008<br><.005<br><.005<br><.005<br><.005<br><.005<br>0.007<br><.005<br><0.01<br><0.0002<br><0.0002 |                                                                                        | <.03<br><.03<br><.03<br><.03<br><.03<br><.03<br><.03         | <.01<br><.01<br><.01<br><.01<br>0.03<br>0.05<br><.01<br>0.018<br><0.005<br><0.005 |
|              | Mean<br>Median<br>Values<br>Values <dl< td=""><td>0.00211<br/>0.003<br/>10<br/>10</td><td>0,06<br/>0.05<br/>10<br/>3</td><td>0.0071<br/>0.005<br/>10<br/>9</td><td>0.07<br/>0.05<br/>10<br/>10</td><td>0,109<br/>0.093<br/>10<br/>0</td><td>0.001<br/>0.001<br/>10<br/>9</td><td>0.04<br/>0.04<br/>7<br/>7</td><td>56,6<br/>58.6<br/>10<br/>0</td><td>0.00102<br/>0.001<br/>10<br/>8</td><td>0.0038<br/>0.005<br/>10<br/>9</td><td>0,005<br/>0.005<br/>10<br/>9</td><td>0.003<br/>0.002<br/>10<br/>7</td><td>0.05<br/>0.03<br/>10<br/>6</td><td>2<br/>2<br/>10<br/>6</td><td>0.01<br/>0.005<br/>7<br/>4</td><td>15.1<br/>15.2<br/>10<br/>0</td><td>0.0675<br/>0.01<br/>10<br/>5</td><td>0.003<br/>0.002<br/>10<br/>4</td><td>3<br/>2<br/>10<br/>2</td><td>0.004<br/>0.005<br/>10<br/>9</td><td>0.59<br/>0.04<br/>7<br/>6</td><td>0.0081<br/>0.01<br/>10<br/>10</td><td>12<br/>9<br/>7<br/>0</td><td>0.022<br/>0.03<br/>10<br/>8</td><td>0.011<br/>0.005<br/>10<br/>7</td><td>3.7<br/>3,8<br/>7<br/>0</td><td>0,0071<br/>0.01<br/>19<br/>10</td><td>0.188<br/>0.193<br/>7<br/>0</td><td>0.005<br/>0.005<br/>10<br/>8</td><td>0.015<br/>0,007<br/>10<br/>8</td><td>0.03<br/>0.03<br/>7<br/>7</td><td>0.016<br/>0,01<br/>10<br/>7</td></dl<>     | 0.00211<br>0.003<br>10<br>10                                                                             | 0,06<br>0.05<br>10<br>3   | 0.0071<br>0.005<br>10<br>9                                                             | 0.07<br>0.05<br>10<br>10                                                             | 0,109<br>0.093<br>10<br>0                                                          | 0.001<br>0.001<br>10<br>9                                                                 | 0.04<br>0.04<br>7<br>7                               | 56,6<br>58.6<br>10<br>0                                                     | 0.00102<br>0.001<br>10<br>8                                                                          | 0.0038<br>0.005<br>10<br>9                                                                            | 0,005<br>0.005<br>10<br>9 | 0.003<br>0.002<br>10<br>7                                                                 | 0.05<br>0.03<br>10<br>6                                                         | 2<br>2<br>10<br>6                            | 0.01<br>0.005<br>7<br>4                                              | 15.1<br>15.2<br>10<br>0                                                      | 0.0675<br>0.01<br>10<br>5                                                                    | 0.003<br>0.002<br>10<br>4                                                                                | 3<br>2<br>10<br>2                                                                                               | 0.004<br>0.005<br>10<br>9                                                                        | 0.59<br>0.04<br>7<br>6                               | 0.0081<br>0.01<br>10<br>10                                                            | 12<br>9<br>7<br>0                            | 0.022<br>0.03<br>10<br>8                                                                     | 0.011<br>0.005<br>10<br>7                                                               | 3.7<br>3,8<br>7<br>0                          | 0,0071<br>0.01<br>19<br>10                                                            | 0.188<br>0.193<br>7<br>0                                    | 0.005<br>0.005<br>10<br>8                                                                           | 0.015<br>0,007<br>10<br>8                                                              | 0.03<br>0.03<br>7<br>7                                       | 0.016<br>0,01<br>10<br>7                                                          |
| X17A         | 6/1/1998<br>10/31/1998<br>6/19/1999<br>10/29/1999<br>5/31/2000<br>10/10/2000<br>6/6/2001<br>9/5/2001<br>6/10/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <,003<br><,003<br><,003<br><,003<br><,003<br><,003<br><,003<br><0,00002<br><0,00002<br><0,00002          | <0.005                    |                                                                                        | <.05<br><.05<br><.05<br><.05<br><.05<br><.05<br><.05<br>0.07<br><0.1<br><0.1<br><0.1 | 0.097<br>0.045<br>0.076<br>0.229<br>0.057<br>0.058<br>0.271<br>0.2<br>0.15<br>0.13 | 0.003<br><.001<br><.001<br><.001<br><.001<br><.001<br><.001<br><0.001<br><0.001<br><0.001 | <.04<br><.04<br><.04<br><.05<br><.05<br><.05<br><.05 | 56.7<br>56.4<br>57.1<br>57.6<br>59.7<br>53.8<br>62<br>62.2<br>74.7<br>66.3  | <0.00005                                                                                             | 0.01<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br>0.0015<br><.00003<br><.00003   | <0.001                    | 0.008<br><.002<br>0.004<br><.002<br><.002<br>0.002<br>0.003<br>0.003<br><0.001<br><0.001  | 0.25<br>0.06<br>0.3<br><.01<br><.01<br>0.1<br>0.05<br>0.84<br><0.03<br><0.03    | € 1 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2      | 0.015<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br>0.013 | 17.2<br>17.6<br>19<br>16.7<br>18.1<br>16.2<br>18.7<br>17.3<br>21.5<br>18.7   | 0.07<br>0.11<br>0.13<br>0.35<br>0.16<br>0.16<br>0.32<br>0.19<br>0.01<br>0.006                | 0.007<br><,002<br>0,064<br><,002<br><,002<br>0,013<br><,002<br><0.001<br><0.001<br>0,001                 | 2<br>3<br>4<br>5<br>3<br>8<br>5<br>3<br>3<br>3<br>3                                                             | 0.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br>0.002<br><0.001 | <.04<br><.04<br><.04<br><.04<br><1<br><1<br><1<br><1 | <.02<br><.01<br><.01<br><.01<br><.01<br><.01<br>0.03<br>0.0056<br><0.0005<br><0.0005  | 11<br>10<br>11<br>15<br>14<br>36<br>11       | <.03<br><.03<br><.03<br><.03<br><.03<br><.03<br><.03<br>0.07<br><0.0005<br>0.0013<br><0.0005 | <0.001                                                                                  | 4.1<br>3.7<br>4.3<br>3.5<br>4.6<br>4.7<br>4.1 | <.01<br><.01<br><.01<br><.01<br><.01<br><.01<br><.01<br><0.0005<br><0.0005<br><0.0005 | 0.155<br>0.179<br>0.367<br>0.184<br>0.195<br>0.191<br>0.193 | 0.009<br>0.019<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><0.01<br><0.0002<br><0.0002 |                                                                                        | <.03<br><.03<br><.03<br><.03<br><.03<br><.03<br><.03         | <.01<br><.01<br>0.45<br><.03<br>0.02<br>0.04<br>0.01<br>0.022<br><0.005<br><0.005 |
|              | Mean<br>Median<br>Values<br>Values <dl< td=""><td>0.00211<br/>0.003<br/>10<br/>10</td><td>0,154<br/>0,075<br/>10<br/>4</td><td>0.01<br/>0.005<br/>10<br/>6</td><td>0.07<br/>0.05<br/>10<br/>8</td><td>0.131<br/>0.113<br/>10<br/>0</td><td>0.001<br/>0.001<br/>10<br/>9</td><td>0.04<br/>0.04<br/>7<br/>7</td><td>60.6<br/>\$8.6<br/>10<br/>0</td><td>0.00123<br/>0.001<br/>10<br/>8</td><td>0.0042<br/>0.005<br/>10<br/>7</td><td>0.005<br/>0.005<br/>10<br/>9</td><td>0.003<br/>0.002<br/>10<br/>5</td><td>0.17<br/>0.05<br/>10<br/>4</td><td>2<br/>2<br/>10<br/>6</td><td>0.008<br/>0.005<br/>7<br/>5</td><td>18.1<br/>17.9<br/>10<br/>0</td><td>0.149<br/>0.135<br/>10<br/>0</td><td>0.004<br/>0.002<br/>10<br/>6</td><td>4<br/>3<br/>10<br/>0</td><td>0.004<br/>0.005<br/>10<br/>8</td><td>0.45<br/>0.04<br/>7<br/>7</td><td>0.0108<br/>0.01<br/>10<br/>8</td><td>15<br/>11<br/>7<br/>0</td><td>0.0252<br/>0.03<br/>10<br/>8</td><td>0.011<br/>0.005<br/>10<br/>10</td><td>4.1<br/>4.1<br/>7<br/>0</td><td>0,0071<br/>0.01<br/>10<br/>10</td><td>0.183<br/>0.187<br/>7<br/>0</td><td>0.0066<br/>0.005<br/>10<br/>7</td><td>0.015<br/>0,005<br/>10<br/>9</td><td>0.03<br/>0.03<br/>7<br/>7</td><td>0.058<br/>0.01<br/>10<br/>5</td></dl<> | 0.00211<br>0.003<br>10<br>10                                                                             | 0,154<br>0,075<br>10<br>4 | 0.01<br>0.005<br>10<br>6                                                               | 0.07<br>0.05<br>10<br>8                                                              | 0.131<br>0.113<br>10<br>0                                                          | 0.001<br>0.001<br>10<br>9                                                                 | 0.04<br>0.04<br>7<br>7                               | 60.6<br>\$8.6<br>10<br>0                                                    | 0.00123<br>0.001<br>10<br>8                                                                          | 0.0042<br>0.005<br>10<br>7                                                                            | 0.005<br>0.005<br>10<br>9 | 0.003<br>0.002<br>10<br>5                                                                 | 0.17<br>0.05<br>10<br>4                                                         | 2<br>2<br>10<br>6                            | 0.008<br>0.005<br>7<br>5                                             | 18.1<br>17.9<br>10<br>0                                                      | 0.149<br>0.135<br>10<br>0                                                                    | 0.004<br>0.002<br>10<br>6                                                                                | 4<br>3<br>10<br>0                                                                                               | 0.004<br>0.005<br>10<br>8                                                                        | 0.45<br>0.04<br>7<br>7                               | 0.0108<br>0.01<br>10<br>8                                                             | 15<br>11<br>7<br>0                           | 0.0252<br>0.03<br>10<br>8                                                                    | 0.011<br>0.005<br>10<br>10                                                              | 4.1<br>4.1<br>7<br>0                          | 0,0071<br>0.01<br>10<br>10                                                            | 0.183<br>0.187<br>7<br>0                                    | 0.0066<br>0.005<br>10<br>7                                                                          | 0.015<br>0,005<br>10<br>9                                                              | 0.03<br>0.03<br>7<br>7                                       | 0.058<br>0.01<br>10<br>5                                                          |
| X178         | 6/1/1998<br>10/31/1998<br>6/19/1999<br>10/29/1999<br>5/31/2000<br>10/10/2000<br>6/6/2001<br>6/10/2002<br>9/23/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <.003<br><.003<br><.003                                                                                  |                           |                                                                                        |                                                                                      | 0.102<br>0.044<br>0.059<br>0.168<br>0.056<br>0.046<br>0.359<br>0.25                | 0.002<br><.001<br><.001<br><.001<br><.001<br><.001<br><.001<br><0.001<br><0.001           | <.04<br><.04<br><.04<br><.04<br><.05<br><.05<br><.05 | 36.8<br>40.5<br>42.3<br>43.7<br>39.6<br>42.7<br>84.1<br>90.4<br>78.3        | <.002<br><.001<br><.001<br><.001<br><.001<br><.001<br><.001<br><.00005<br><0.00005                   | 0,011<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><.0003<br><.00003             |                           | 0.005<br><.002<br>0.004<br><.002<br><.002<br>0.003<br><.002<br><0.001<br><0.001           | 0.31<br>0.38<br>0.4<br>0.07<br>0.04<br>0.97<br>0.7<br>1.11<br>0.58              | 1<br><1<br>2<br><1<br>1<br>2<br>3<br>2<br><2 | 0.045<br><,005<br>0,017<br><,005<br><,005<br><,005<br><,005<br>0,015 | 11.1<br>12,5<br>13.8<br>12.4<br>11.3<br>12,5<br>23.7<br>25.5<br>21,6         | 0.06<br>0.07<br>0.08<br>0.11<br>0.13<br>0.11<br>0.44<br>0.276<br>0.2                         | 0.002<br><,002<br>0.003<br><,002<br><,002<br><,002<br><,002<br><,002<br><,002<br><,002<br><,001<br>0,001 | 2<br>3<br>5<br>4<br>4<br>6<br>14<br>17<br>10                                                                    | <.005<br>0.009<br><.005<br><.005<br><.005<br><.005<br><.005<br><0.005<br><0.001                  | 0.19<br>1.67<br><.04<br><1<br>2<br><1                | <.02<br><.01<br><.01<br><.01<br><.01<br><.01<br><.01<br><0.0005<br><0.0005            | 9<br>7<br>6<br>8<br>8<br>26<br>17            | <.03<br><.03<br><.03<br><.03<br><.03<br><.03<br><.03<br><.03                                 | <.03<br><.03<br><.005<br><.005<br><.005<br><.005<br><.005<br><0.001<br><0.001           | 3.3<br>2.2<br>3.2<br>2.9<br>4<br>4.5<br>5.7   | <.01<br><.01<br><.01<br><.01<br><.01<br><.01<br><.01<br><0.0005<br><0.0005            | 0.115<br>0.153<br>0.164<br>0.173<br>0.163<br>0.158<br>0.416 | 0.005<br><.005<br><.005<br><.005<br><.005<br>0.005<br>0.006<br><0.0002<br><0.0002<br><0.0002        |                                                                                        | <.03<br><.03<br><.03<br><.03<br><.03<br><.03<br><.03<br><.03 | <.01<br><.01<br>0.21<br><.01<br><.01<br>0.05<br><.01<br><0.005<br><.005<br><0.005 |
|              | Mean<br>Median<br>Values<br>Values <dl< th=""><th>0,00234<br/>0,003<br/>9<br/>8</th><th>0.051<br/>0.05<br/>9<br/>7</th><th>0.0057<br/>0.005<br/>9<br/>9</th><th>0,06<br/>0.05<br/>9<br/>8</th><th>0.149<br/>0.102<br/>9<br/>0</th><th>0.001<br/>0.001<br/>9<br/>8</th><th>0.04<br/>0.04<br/>7<br/>7</th><th>55.4<br/>42.7<br/>9<br/>0</th><th>0.0009<br/>0.001<br/>9<br/>8</th><th>0.0046<br/>0.005<br/>9<br/>8</th><th>0,004<br/>0,005<br/>9<br/>8</th><th>0.002<br/>0.002<br/>9<br/>6</th><th>0.42<br/>0.38<br/>9<br/>0</th><th>2<br/>2<br/>9<br/>3</th><th>0,014<br/>0,005<br/>7<br/>4</th><th>16.1<br/>12.5<br/>9<br/>0</th><th>0.164<br/>0.11<br/>9<br/>0</th><th>0,002<br/>0,002<br/>9<br/>6</th><th>7<br/>5<br/>9<br/>0</th><th>0.005<br/>0.005<br/>9<br/>8</th><th>0,85<br/>1<br/>7<br/>4</th><th>0.009<br/>0.01<br/>9<br/>8</th><th>12<br/>8<br/>7<br/>0</th><th>0,0235<br/>0,03<br/>9<br/>8</th><th>0.012<br/>0.005<br/>9<br/>9</th><th>3.7<br/>3.3<br/>7<br/>0</th><th>0,0079<br/>0.01<br/>9<br/>9</th><th>0.192<br/>0.163<br/>7<br/>0</th><th>0,0042<br/>0,005<br/>9<br/>6</th><th>0.011<br/>0.005<br/>9<br/>9</th><th>0.03<br/>0,03<br/>7<br/>7</th><th>0,035<br/>0.01<br/>9<br/>7</th></dl<>                                    | 0,00234<br>0,003<br>9<br>8                                                                               | 0.051<br>0.05<br>9<br>7   | 0.0057<br>0.005<br>9<br>9                                                              | 0,06<br>0.05<br>9<br>8                                                               | 0.149<br>0.102<br>9<br>0                                                           | 0.001<br>0.001<br>9<br>8                                                                  | 0.04<br>0.04<br>7<br>7                               | 55.4<br>42.7<br>9<br>0                                                      | 0.0009<br>0.001<br>9<br>8                                                                            | 0.0046<br>0.005<br>9<br>8                                                                             | 0,004<br>0,005<br>9<br>8  | 0.002<br>0.002<br>9<br>6                                                                  | 0.42<br>0.38<br>9<br>0                                                          | 2<br>2<br>9<br>3                             | 0,014<br>0,005<br>7<br>4                                             | 16.1<br>12.5<br>9<br>0                                                       | 0.164<br>0.11<br>9<br>0                                                                      | 0,002<br>0,002<br>9<br>6                                                                                 | 7<br>5<br>9<br>0                                                                                                | 0.005<br>0.005<br>9<br>8                                                                         | 0,85<br>1<br>7<br>4                                  | 0.009<br>0.01<br>9<br>8                                                               | 12<br>8<br>7<br>0                            | 0,0235<br>0,03<br>9<br>8                                                                     | 0.012<br>0.005<br>9<br>9                                                                | 3.7<br>3.3<br>7<br>0                          | 0,0079<br>0.01<br>9<br>9                                                              | 0.192<br>0.163<br>7<br>0                                    | 0,0042<br>0,005<br>9<br>6                                                                           | 0.011<br>0.005<br>9<br>9                                                               | 0.03<br>0,03<br>7<br>7                                       | 0,035<br>0.01<br>9<br>7                                                           |
| X18 <u>6</u> | 6/2/1998<br>10/31/1998<br>6/19/1999<br>10/29/1999<br>6/27/2000<br>10/9/2000<br>6/6/2001<br>9/5/2001<br>6/10/2002<br>9/27/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <.003<br><.003<br><.003<br><.003<br><.003<br><.003<br><.003<br><.003<br><.003<br><.00004<br><.000004     | <0.01                     | <.02<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><0.001<br>0.009<br>0.007 | <.05<br><.05<br><.05<br><.05<br><.05<br><.05<br><.05<br>0,1<br><0.1<br><0.1<br><0.1  | 0.2<br>0.117<br>0.229<br>0.227<br>0.078<br>0.02<br>0.237<br>0.15<br>0.21<br>0.2    | 0.003<br>0.001<br><.001<br><.001<br><.001<br><.001<br><.001<br><0.002<br><0.002<br><0.002 | <.04<br><.04<br><.04<br><.04<br><.05<br><.05<br><.05 | 130.2<br>139.9<br>182<br>139.7<br>175.8<br>78.4<br>163<br>202<br>206<br>170 | <.002<br><.001<br>0.005<br><.001<br><.001<br><.001<br><.001<br><.001<br>0.0002<br><0.0001<br><0.0001 | <.005<br><.005<br><.005<br><.005<br>0.014<br><.005<br><.005<br><0.0006<br><0.0006                     | <0.002                    | 0.017<br>0.005<br>0.02<br><.002<br>0.025<br>0.008<br>0.004<br><0.002<br><0.002<br><0.002  | 0.45<br>0.57<br>0.28<br>0.28<br>0.04<br><.01<br>0.03<br>0.06<br>2.29<br>2.29    | 5<br>9<br>3<br>8<br>5<br>6<br>6<br>5         | 0.052<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br>0.029 | 30.9<br>35<br>49.2<br>33.2<br>41<br>19.4<br>39.7<br>49.5<br>45.5<br>40       | 0.53<br>0.22<br>0.28<br>0.3<br>1.7<br>0.74<br>2.12<br>2.3<br>2.55<br>0.569                   | <.002<br><.002<br>0.01<br><.002<br><.002<br><.002<br><.002<br><.002<br><0.002<br><0.002<br><0.002        | 21<br>19<br>32<br>25<br>20<br>23<br>19<br>28<br>22                                                              | 0.008<br>0.008<br><.005<br><.005<br>0.039<br><.005<br><.005<br>0.009<br><0.002<br><0.002         | <.04<br>0.5<br><.04<br><.04<br>6<br><1<br><1         | <.02<br><.01<br><.01<br><.01<br><.01<br><.01<br>0.02<br><0.001<br><0.001<br><0.001    | 104<br>138<br>152<br>127<br>145<br>44<br>141 | <.03<br><.03<br><.03<br><.03<br>0.07<br><.03<br><.03<br>0.067<br>0.002<br><0.001             | <.03<br><.03<br><.005<br><.005<br><.005<br><.005<br><.005<br><0.002<br><0.002<br><0.002 | 5.1<br>3.6<br>5.6<br>3.8<br>5<br>6<br>5.6     | <.01<br><.01<br><.01<br><.01<br><.01<br><.01<br><0.001<br><0.001<br><0.001            | 0.485<br>0.586<br>0.768<br>0.594<br>0.639<br>0.311<br>0.636 | 0,013<br>0,008<br><,005<br><,005<br>0,016<br><,005<br>0,008<br><0,01<br><0,0004<br><0,0004          | 0.007<br><,005<br><,005<br><,005<br><,005<br>0.023<br><,005<br><0.03<br><0.03<br><0.03 | <.03<br><.03<br><.03<br><.03<br><.03<br><.03<br><.03         | 0.02<br>0.02<br>0.32<br>0.02<br>3.57<br><.01<br>0.01<br>0.016<br><0.01<br><0.01   |
|              | Mean<br>Median                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.00211<br>0.003                                                                                         | 0.05<br>0.05              | 0,007<br>0,005                                                                         | 0.07<br>0.05                                                                         | 0.167<br>0,2                                                                       | 0.002<br>0.002                                                                            | 0.04<br>0.04                                         | 158.7<br>166.5                                                              | 0.0012<br>0.001                                                                                      | 0.0046<br>0.005                                                                                       | 0.024<br>0.005            | 0.009<br>0.005                                                                            | 0.63<br>0,28                                                                    | 6<br>6                                       | 0.015<br>0,005                                                       | 38,4<br>39,9                                                                 | 1,131<br>0.655                                                                               | 0.003<br>0.002                                                                                           | 23<br>22                                                                                                        | 0.009<br>0.005                                                                                   | 1.23<br>0.5                                          | 0.009<br>0.01                                                                         | 122<br>138                                   | 0.026<br>0.03                                                                                | 0.012<br>0.005                                                                          | 5.1<br>5.1                                    | 0.007<br>0.01                                                                         |                                                             | 0,0071<br>0.0065                                                                                    |                                                                                        | 0.03<br>0.03                                                 | 0.401<br>0.018                                                                    |

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#### Faro Site - Select Groundwater Quality Listing, 1998-2002, Dissolved Metals

| Station      | Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | AG-D<br>mg/L                                                                                                      | AL-D<br>mg/L                                                                                   | AS-D<br>ma/L                                                                                    | B-D<br>mg/L                                                                  | SC                                                                                            | BE-D<br>ma/L                                                                                                 | BI-D<br>ma/L                                                 | CA-D                                                                                    | CD-D<br>ma/L                                                                                        | CO-D<br>ma/L                                                                                                    | CR-D<br>mg/L                                                                                               | CU-D<br>mg/L                                                                                       | FE-D                                                                                    | K-D                                                       | LA-0<br>ma/L                                                       | MG-O                                                                                    | MN-D<br>mg/L                                                                            | MO-D<br>mg/L                                                                                                         | NA-D                                                             |                                                                                                | P-D<br>mg/L                                            | P8-D<br>mg/L                                                                               | S-D<br>ma/L                                        | 9B-D                                                                                              | SE-D                                                                                                           | SI-D                                                     | 8N-D                                                                                      |                                                                              |                                                                                                   | V-D                                                                                                               | W-D                                                                | ZN-D                                                                               |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------------------------|
|              | Values<br>Values <dl< th=""><th>10<br/>10</th><th>10<br/>5</th><th>10<br/>8</th><th>10<br/>9</th><th>10<br/>0</th><th>10<br/>6</th><th>7<br/>7</th><th>10<br/>0</th><th>10<br/>8</th><th>10<br/>9</th><th>10<br/>7</th><th>10<br/>4</th><th>10<br/>1</th><th>10</th><th>7<br/>5</th><th>10<br/>0</th><th>10<br/>0</th><th>10<br/>9</th><th>10<br/>0</th><th>10<br/>6</th><th>7<br/>5</th><th>10<br/>9</th><th>7<br/>0</th><th>mg/L<br/>10<br/>7</th><th>10<br/>10<br/>10</th><th>mg/L<br/>7<br/>0</th><th>10<br/>10<br/>10</th><th>mg/L<br/>7<br/>0</th><th>mg/L<br/>10<br/>6</th><th>mg/L<br/>10<br/>8</th><th>7<br/>7<br/>7</th><th>mg/L<br/>10<br/>3</th></dl<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10<br>10                                                                                                          | 10<br>5                                                                                        | 10<br>8                                                                                         | 10<br>9                                                                      | 10<br>0                                                                                       | 10<br>6                                                                                                      | 7<br>7                                                       | 10<br>0                                                                                 | 10<br>8                                                                                             | 10<br>9                                                                                                         | 10<br>7                                                                                                    | 10<br>4                                                                                            | 10<br>1                                                                                 | 10                                                        | 7<br>5                                                             | 10<br>0                                                                                 | 10<br>0                                                                                 | 10<br>9                                                                                                              | 10<br>0                                                          | 10<br>6                                                                                        | 7<br>5                                                 | 10<br>9                                                                                    | 7<br>0                                             | mg/L<br>10<br>7                                                                                   | 10<br>10<br>10                                                                                                 | mg/L<br>7<br>0                                           | 10<br>10<br>10                                                                            | mg/L<br>7<br>0                                                               | mg/L<br>10<br>6                                                                                   | mg/L<br>10<br>8                                                                                                   | 7<br>7<br>7                                                        | mg/L<br>10<br>3                                                                    |
| X18B         | 6/2/1998<br>10/31/1998<br>7/29/1999<br>5/31/2000<br>10/9/2000<br>6/6/2001<br>9/5/2001<br>6/10/2002<br>9/23/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <.003<br><.003<br><.0001<br><.003<br><.003<br><.003<br><.003<br><.000004<br><0.00004                              | 0.11<br>0.32<br>0.17<br><.05<br><.05<br>0.21<br>0.07<br>0.02<br><0.01<br><0.01                 | <.02<br><.005<br><.001<br><.005<br><.005<br><.005<br><.005<br><.005<br>0.01<br><0.001<br><0.001 | <.05<br><.05<br>0.04<br><.05<br><.05<br><.05<br>0.08<br><0.1<br><0.1<br><0.1 | 0.215<br>0.122<br>0.1026<br>0.231<br>0.149<br>0.116<br>0.314<br>0.2<br>0.13<br>0.13           | 0,003<br>0,001<br>0,0004<br><,001<br>0,001<br>0,001<br><,001<br><0,002<br><0,002<br><0,002                   | <.04<br><.04<br><.001<br><.04<br><.05<br><.05<br><.05        | 148.4<br>143.9<br>161.2<br>151.4<br>141<br>144.9<br>174.7<br>188<br>183<br>188          | <.002<br><.001<br><.0001<br><.001<br><.001<br><.001<br><.0001<br>0.0003<br>0.0001                   | 0.013<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><0.0006<br><0.0006                      |                                                                                                            | <.002<br>0.008<br>0.017<br><.002<br><0.002<br><0.002                                               | 0,3<br>0,26<br>0,014<br>0,08<br>0,02<br>0,11<br>2,76<br>2,51<br>0,04<br><0.03           | 5<br>5<br>4,1<br>5<br>5<br>6<br>6<br>6<br>6               | 0.035<br><,005<br>0.007<br><,005<br><,005<br><,005<br>0.027        | 36<br>35.9<br>39.53<br>33.9<br>36.7<br>34.7<br>43.5<br>48.6<br>43.3<br>43.1             | 0,39<br>0,95<br>0,006<br>1.6<br>0.33<br>0.38<br>0.79<br>0.453<br>1.79<br>1.76           | 0.011<br><,002<br><,0001<br><,002<br><,002<br><,002<br><0,002<br><0,002<br><0,002<br><0,002                          | 24<br>22<br>15.5<br>23<br>21<br>26<br>27<br>27<br>27<br>24<br>22 | <.005<br>0.01<br>0.001<br><.005<br><.005<br><.005<br><.005<br><.005<br><0.002<br>0.011<br>0.01 | 0,11<br>1,46<br>0,007<br><.04<br><1<br>2<br><1         | <.02<br><.01<br>0.005<br><.01<br><.01<br><.01<br>0.02<br><0.001<br><0.001<br><0.001        | 109<br>152<br>132.2<br>141<br>133<br>82<br>158     | <,03<br><,03<br><,001<br><,03<br><,03<br><,03<br><,03<br>0.005<br>0.004<br><0.001                 | <.03<br><.03<br><.001<br><.005<br><.005<br><.005<br><.005<br><.005<br><0.002<br><0.002<br><0.002               | 5<br>4.4<br>5.05<br>4.3<br>5.6<br>5.3<br>6.8             | <.01<br><.0104<br><.05<br><.01<br><.01<br><.01<br><.01<br><0.001<br><0.001<br><0.001      | 0.591<br>0.602<br>0.3172<br>0.611<br>0.599<br>0.51<br>0.847                  | 0.013<br>0.016<br>0.0053<br><.005<br><.005<br>0.017<br>0.007<br><0.01<br><0.0004<br><0.0004       | <.005<br><.005<br><.0002<br><.005<br><.005<br><.005<br><.005<br><.005<br><0.03<br><0.03<br><0.03                  | <,03<br><,03<br><,001<br><,03<br><,03<br><,03<br><,03              | 0.01<br>0.01<br><.0004<br><.01<br>0.03<br>0.01<br><.01<br>0.008<br><0.01<br><0.01  |
|              | Mean<br>Median<br>Values<br>Values <dl< td=""><td>0.00182<br/>0.003<br/>10<br/>10</td><td>0.1<br/>0.06<br/>10<br/>4</td><td>0.006<br/>0,005<br/>10<br/>9</td><td>0.07<br/>0.05<br/>10<br/>8</td><td>0.171<br/>0.1395<br/>10<br/>0</td><td>0.0014<br/>0.001<br/>10<br/>5</td><td>0.039<br/>0.04<br/>7<br/>7</td><td>162,45<br/>156,3<br/>10<br/>0</td><td>0.0008<br/>0.001<br/>10<br/>8</td><td>0.004<br/>0.005<br/>10<br/>9</td><td>0,0089<br/>0.005<br/>10<br/>8</td><td>0,0082<br/>0.005<br/>10<br/>5</td><td>0.612<br/>0.095<br/>10<br/>1</td><td>5.4<br/>5,5<br/>10<br/>0</td><td>0.013<br/>0.005<br/>7<br/>4</td><td>39,52<br/>38,11<br/>10<br/>0</td><td>0.845<br/>0.622<br/>10<br/>0</td><td>0.003<br/>0.002<br/>10<br/>8</td><td>23.1<br/>23.5<br/>10<br/>0</td><td>0.006<br/>0.005<br/>10<br/>6</td><td>6.802<br/>1<br/>7<br/>3</td><td>0,009<br/>0.01<br/>10<br/>8</td><td>129.6<br/>133<br/>7<br/>0</td><td>0.019<br/>0.03<br/>10<br/>8</td><td>0.009<br/>0.005<br/>10<br/>10</td><td>5.21<br/>5.05<br/>7<br/>0</td><td>0,0063<br/>0.01<br/>10<br/>10</td><td>0.5967<br/>0,602<br/>7<br/>0</td><td>0,0079<br/>0.0062<br/>10<br/>5</td><td>0.013<br/>0.005<br/>10<br/>9</td><td>0.026<br/>0.03<br/>7<br/>7</td><td>0,0108<br/>0.01<br/>10<br/>5</td></dl<> | 0.00182<br>0.003<br>10<br>10                                                                                      | 0.1<br>0.06<br>10<br>4                                                                         | 0.006<br>0,005<br>10<br>9                                                                       | 0.07<br>0.05<br>10<br>8                                                      | 0.171<br>0.1395<br>10<br>0                                                                    | 0.0014<br>0.001<br>10<br>5                                                                                   | 0.039<br>0.04<br>7<br>7                                      | 162,45<br>156,3<br>10<br>0                                                              | 0.0008<br>0.001<br>10<br>8                                                                          | 0.004<br>0.005<br>10<br>9                                                                                       | 0,0089<br>0.005<br>10<br>8                                                                                 | 0,0082<br>0.005<br>10<br>5                                                                         | 0.612<br>0.095<br>10<br>1                                                               | 5.4<br>5,5<br>10<br>0                                     | 0.013<br>0.005<br>7<br>4                                           | 39,52<br>38,11<br>10<br>0                                                               | 0.845<br>0.622<br>10<br>0                                                               | 0.003<br>0.002<br>10<br>8                                                                                            | 23.1<br>23.5<br>10<br>0                                          | 0.006<br>0.005<br>10<br>6                                                                      | 6.802<br>1<br>7<br>3                                   | 0,009<br>0.01<br>10<br>8                                                                   | 129.6<br>133<br>7<br>0                             | 0.019<br>0.03<br>10<br>8                                                                          | 0.009<br>0.005<br>10<br>10                                                                                     | 5.21<br>5.05<br>7<br>0                                   | 0,0063<br>0.01<br>10<br>10                                                                | 0.5967<br>0,602<br>7<br>0                                                    | 0,0079<br>0.0062<br>10<br>5                                                                       | 0.013<br>0.005<br>10<br>9                                                                                         | 0.026<br>0.03<br>7<br>7                                            | 0,0108<br>0.01<br>10<br>5                                                          |
| <u>P96-6</u> | 6/15/1998<br>10/20/1998<br>12/21/1998<br>7/4/1999<br>7/25/2000<br>10/22/2000<br>10/22/2001<br>10/25/2001<br>6/11/2002<br>9/25/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <.003<br><.003<br><.003<br><.003<br><.003<br><.003<br><.003<br><.003<br><.003<br><0.00004<br><0.00004<br><0.00001 | <.05<br><.05<br><.05<br><.05<br><.05<br><.05<br><.05<br>0.11<br>0.17<br><0.01<br>0.01<br><0.03 | <.02<br>0.05<br>0.01<br><.005<br><.005<br><.005<br><.005<br>0.055<br><0.001<br><0.001<br><0.003 | <05<br><05<br>0.11<br>0.2<br>0.07<br><05<br><05<br><0.1<br><0.1<br><0.1      | 0.062<br>0.024<br>0.03<br>0.019<br>0.058<br>0.1<br>0.03<br>0.145<br><0.02<br>0.03<br>0.02     | 0.001<br>0.001<br><.003<br><.001<br><.001<br>0.002<br>0.003<br><.001<br><0.002<br><0.002<br><0.002<br><0.005 | <.04<br><.04<br><.04<br><.04<br><.04<br><.05<br><.05<br><.05 | 126.6<br>147.2<br>142.9<br>165.6<br>144.3<br>103<br>169.5<br>137.9<br>121<br>168<br>131 | <.002<br><.002<br>0.007<br>0.002<br><.001<br>0.006<br><.001<br><.001<br><.0001<br>0.0002<br><0.0003 |                                                                                                                 |                                                                                                            | 0.004<br>0.012<br>0.018<br>0.019<br><.002<br>0.012<br>0.013<br>0.016<br><0.002<br><0.002<br><0.005 | <.01<br><.01<br><.01<br>0.14<br><.01<br>0.23<br>0.12<br>11.04<br>0.79<br>0.55<br>0.67   | 3<br>4<br>5<br>5<br>1<br>5<br>4<br>5<br>4<br>4<br>3       | <.005<br><.005<br><.005<br>0.02<br><.005<br>0.126<br><.005<br>0.02 | 42.3<br>51.7<br>45.4<br>55.8<br>48<br>33<br>56.9<br>48.1<br>39.8<br>53.3<br>45.6        | 0.08<br>0.07<br>0.63<br>0.48<br>0.04<br>0.73<br>0.03<br>1.11<br>0.0687<br>0.134<br>0.07 | 0.003<br>0.009<br><.002<br><.002<br><.002<br><.002<br><.002<br><.002<br><.002<br><.002<br><0.002<br><0.002<br><0.002 | 10<br>11<br>9<br>12<br>10<br>12<br>9<br>11<br>6<br>9<br>6        | 0,014<br>0.025<br>0.025<br><.005<br>0.05<br>0.05<br>0.017<br><.005<br>0.009<br>0.023<br>0.008  | <,04<br>2,86<br>6,63<br>0,16<br>0,05<br><1<br><1<br><1 | <.02<br><.02<br><.01<br><.01<br><.01<br><.01<br><.03<br><.01<br><0.001<br><0.001<br><0.003 | 83<br>84.6<br>114<br>143<br>114<br>69<br>132<br>82 | <.03<br><.03<br><.03<br><.03<br><.03<br><.03<br>0.05<br><.03<br>0.005<br>0.003<br><0.003          | <,03<br><,03<br><,03<br><,005<br><,005<br><,005<br><,005<br><,005<br>0,003<br><0,003<br><0,005                 | 9.1<br>9.4<br>10.7<br>14.4<br>9.4<br>11.8<br>8.7<br>14.3 | <.01<br><.01<br><.01<br><.01<br><.01<br><.01<br><.01<br><.01                              | 0.439<br>0.57<br>0.527<br>0.624<br>0.528<br>0.558<br>0.558<br>0.578<br>0.605 | <.005<br><.005<br>0.009<br><.005<br><.005<br>0.012<br>0.017<br><.005<br><0.01<br><0.004<br><0.001 | <,005<br><,005<br><,005<br><,005<br><,005<br><,005<br><,005<br><,005<br><,005<br><,005<br><0,03<br><0,03<br><0,03 | 0,33<br><.03<br><.03<br><.03<br><.03<br><.03<br><.03<br><.03<br><. | 0.33<br>0.98<br>0.11<br>0.76<br>0.41<br>2.77<br>0.1<br>1.46<br>0.31<br>0.68<br>0.3 |
|              | Mean<br>Median<br>Values<br>Values <dl< td=""><td>0,0022<br/>0.003<br/>11<br/>11</td><td>0.07<br/>0,05<br/>11<br/>7</td><td>0.015<br/>0.005<br/>11<br/>8</td><td>0,08<br/>0.07<br/>11<br/>8</td><td>0.049<br/>0,03<br/>11<br/>1</td><td>0.002<br/>0.001<br/>11<br/>7</td><td>0.04<br/>0.04<br/>8<br/>8</td><td>141.5<br/>142.9<br/>11<br/>0</td><td>0.0021<br/>0.001<br/>11<br/>7</td><td>0,0042<br/>0.005<br/>11<br/>8</td><td>0,004<br/>0.005<br/>11<br/>11</td><td>0.01<br/>0.012<br/>11<br/>4</td><td>1.25<br/>0.14<br/>11<br/>4</td><td>4<br/>4<br/>11<br/>1</td><td>0.024<br/>0.005<br/>8<br/>5</td><td>48.2<br/>48<br/>11<br/>0</td><td>0,313<br/>0.08<br/>11<br/>0</td><td>0.003<br/>0.002<br/>11<br/>9</td><td>10<br/>10<br/>11<br/>0</td><td>0.017<br/>0.014<br/>11<br/>3</td><td>1.59<br/>1<br/>8<br/>4</td><td>0,01<br/>0.01<br/>11<br/>11</td><td>102.7<br/>99.3<br/>8<br/>0</td><td>0.024<br/>0.03<br/>11<br/>8</td><td>0,014<br/>0.005<br/>11<br/>10</td><td>11<br/>10<br/>8<br/>0</td><td>0.015<br/>0.01<br/>11<br/>10</td><td>0,555<br/>0,569<br/>8<br/>0</td><td>0.0068<br/>0.005<br/>11<br/>8</td><td>0.016<br/>0.005<br/>11<br/>9</td><td>0.07<br/>0.03<br/>8<br/>7</td><td>0.75<br/>0.41<br/>11<br/>Q</td></dl<>                                | 0,0022<br>0.003<br>11<br>11                                                                                       | 0.07<br>0,05<br>11<br>7                                                                        | 0.015<br>0.005<br>11<br>8                                                                       | 0,08<br>0.07<br>11<br>8                                                      | 0.049<br>0,03<br>11<br>1                                                                      | 0.002<br>0.001<br>11<br>7                                                                                    | 0.04<br>0.04<br>8<br>8                                       | 141.5<br>142.9<br>11<br>0                                                               | 0.0021<br>0.001<br>11<br>7                                                                          | 0,0042<br>0.005<br>11<br>8                                                                                      | 0,004<br>0.005<br>11<br>11                                                                                 | 0.01<br>0.012<br>11<br>4                                                                           | 1.25<br>0.14<br>11<br>4                                                                 | 4<br>4<br>11<br>1                                         | 0.024<br>0.005<br>8<br>5                                           | 48.2<br>48<br>11<br>0                                                                   | 0,313<br>0.08<br>11<br>0                                                                | 0.003<br>0.002<br>11<br>9                                                                                            | 10<br>10<br>11<br>0                                              | 0.017<br>0.014<br>11<br>3                                                                      | 1.59<br>1<br>8<br>4                                    | 0,01<br>0.01<br>11<br>11                                                                   | 102.7<br>99.3<br>8<br>0                            | 0.024<br>0.03<br>11<br>8                                                                          | 0,014<br>0.005<br>11<br>10                                                                                     | 11<br>10<br>8<br>0                                       | 0.015<br>0.01<br>11<br>10                                                                 | 0,555<br>0,569<br>8<br>0                                                     | 0.0068<br>0.005<br>11<br>8                                                                        | 0.016<br>0.005<br>11<br>9                                                                                         | 0.07<br>0.03<br>8<br>7                                             | 0.75<br>0.41<br>11<br>Q                                                            |
| P96-7        | 5/15/1998<br>10/31/1998<br>12/22/1998<br>10/31/1999<br>10/22/2000<br>5/6/2001<br>10/26/2001<br>6/12/2002<br>9/25/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <.003<br><.003<br><.003<br><.003<br><.003<br><.003<br><.0002<br><0.0001<br><0.0001                                | 0.17<br>0.69<br>0.11<br>0.78<br>0.56<br>0.1<br><0.05<br>0.11<br><0.03                          | <.02<br><.005<br>0.014<br><.005<br><.005<br>0.063<br><0.003<br><0.003<br><0.003                 | <,05<br><,05<br>0.12<br><,05<br>0.05<br><,05<br><0.1<br><0.1<br><0.1         | 0,048<br>0,05<br>0,025<br>0,143<br>0,04<br>0,11<br><0,02<br><0,02<br><0,02                    | 0.002<br>0.002<br>0.001<br><.001<br><.001<br><.001<br><0.01<br><0.005<br><0.005                              | <.04<br><.04<br><.04<br><.04<br><.05<br><.05                 | 300.8<br>430.8<br>356.9<br>469.4<br>525.9<br>360.6<br>575<br>437<br>692                 | <.002<br>0.005<br>0.004<br><.001<br>0.004<br><.001<br><0.0005<br><0.0003<br><0.0003                 | <.005<br><.005<br><.005<br>0.012<br><.005<br><.005<br><0.003<br><0.002<br><0.002                                | <.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><0.01<br><0.005<br><0.005                            | 0.014<br>0.02<br>0.031<br>0.005<br>0.037<br><.002<br><0.01<br><0.005<br><0.005                     | <.01<br>5.7<br><.01<br><.01<br>0.59<br>0.04<br><0.03<br>0.17<br><0.03                   | 5<br>6<br>5<br>8<br>6<br>6<br>6<br>6                      | 0.008<br><.005<br><.005<br><.005<br><.005<br>0.043                 | 73<br>90.7<br>77.3<br>78.1<br>99.9<br>91.3<br>105<br>107<br>120                         | 0.16<br>0.39<br>0.18<br><.01<br>0.2<br>0.33<br><0.003<br>0.008<br><0.002                | <.002<br><.002<br><.002<br><.002<br><.002<br><.002<br><.002<br><0.01<br><0.005<br><0.005                             | 9<br>13<br>11<br>16<br>19<br>14<br>18<br>15<br>24                | <.005<br>0.014<br>0.013<br><.005<br><.005<br><.005<br><0.01<br><0.005<br><0.005                | 0.28<br>1.97<br>1.66<br>0.35<br><1<br><1               | <.02<br><.01<br><.01<br><.01<br><.01<br><.01<br>0.03<br><0.005<br><0.003<br><0.003         | 146<br>406<br>365<br>535<br>240<br>409             | <.03<br><.03<br><.03<br><.03<br><.03<br><.03<br><.03<br><.005<br>0.005<br>0.006<br><.0003         | <.03<br><.03<br><.03<br><.005<br><.005<br><.005<br><0.01<br><0.005<br><0.005<br><0.005                         | 3.8<br>5.3<br>4.2<br>4.3<br>5.9<br>8,3                   | <.01<br><.01<br><.01<br><.01<br><.01<br><.01<br><.01<br><0.005<br><0.003<br><0.003        | 0.563<br>0.793<br>0.661<br>0.698<br>0.796<br>0.664                           | 0.014<br>0.037<br>0.018<br><.005<br>0.054<br><.005<br><0.01<br><0.001<br><0.001                   | <.005<br><.005<br>0.022<br><.005<br><.005<br><.005<br><0.03<br><0.03<br><0.03                                     | <.03<br><.03<br><.03<br><.03<br><.03<br><.03<br><.03               | 0.04<br>0.08<br>0.02<br><.01<br><.01<br>0.02<br><0.05<br><0.03<br><0.03            |
|              | Mean<br>Median<br>Values<br>Values <dl< td=""><td>0.002<br/>0.003<br/>9<br/>9</td><td>0,29<br/>0,11<br/><del>9</del><br/>2</td><td>0,014<br/>0.005<br/>9<br/>7</td><td>0.07<br/>0,05<br/><del>9</del><br/>7</td><td>0.053<br/>0.04<br/>9<br/>3</td><td>0.003<br/>0.002<br/>9<br/>5</td><td>0.04<br/>0.04<br/>6<br/>6</td><td>460.9<br/>437<br/>9<br/>0</td><td>0.002<br/>0.001<br/>9<br/>6</td><td>0.005<br/>0.005<br/>9<br/>8</td><td>0.005<br/>0.005<br/>9<br/>9</td><td>0.014<br/>0.01<br/>9<br/>4</td><td>0.73<br/>0.03<br/>9<br/>5</td><td>6<br/>9<br/>0</td><td>0.012<br/>0.005<br/>6<br/>4</td><td>93.6<br/>91.3<br/>9<br/>0</td><td>0.143<br/>0.16<br/>9<br/>3</td><td>0,004<br/>0.002<br/>9<br/>9</td><td>15<br/>15<br/>9<br/>0</td><td>0.007<br/>0.005<br/>9<br/>7</td><td>1,04<br/>1<br/>6<br/>2</td><td>0.011<br/>0.01<br/>9<br/>8</td><td>354<br/>396<br/>6<br/>0</td><td>0,022<br/>0.03<br/>9<br/>6</td><td>0.014<br/>0.005<br/>9<br/>9</td><td>5.3<br/>4.8<br/>6<br/>0</td><td>0.008<br/>0.01<br/>9<br/>9</td><td>0.696<br/>0.681<br/>6<br/>0</td><td>0.016<br/>0.01<br/>9<br/>5</td><td>0.015<br/>0.005<br/>9<br/>8</td><td>0.03<br/>0.03<br/>6<br/>6</td><td>0.03<br/>0.03<br/>9<br/>5</td></dl<>                                                   | 0.002<br>0.003<br>9<br>9                                                                                          | 0,29<br>0,11<br><del>9</del><br>2                                                              | 0,014<br>0.005<br>9<br>7                                                                        | 0.07<br>0,05<br><del>9</del><br>7                                            | 0.053<br>0.04<br>9<br>3                                                                       | 0.003<br>0.002<br>9<br>5                                                                                     | 0.04<br>0.04<br>6<br>6                                       | 460.9<br>437<br>9<br>0                                                                  | 0.002<br>0.001<br>9<br>6                                                                            | 0.005<br>0.005<br>9<br>8                                                                                        | 0.005<br>0.005<br>9<br>9                                                                                   | 0.014<br>0.01<br>9<br>4                                                                            | 0.73<br>0.03<br>9<br>5                                                                  | 6<br>9<br>0                                               | 0.012<br>0.005<br>6<br>4                                           | 93.6<br>91.3<br>9<br>0                                                                  | 0.143<br>0.16<br>9<br>3                                                                 | 0,004<br>0.002<br>9<br>9                                                                                             | 15<br>15<br>9<br>0                                               | 0.007<br>0.005<br>9<br>7                                                                       | 1,04<br>1<br>6<br>2                                    | 0.011<br>0.01<br>9<br>8                                                                    | 354<br>396<br>6<br>0                               | 0,022<br>0.03<br>9<br>6                                                                           | 0.014<br>0.005<br>9<br>9                                                                                       | 5.3<br>4.8<br>6<br>0                                     | 0.008<br>0.01<br>9<br>9                                                                   | 0.696<br>0.681<br>6<br>0                                                     | 0.016<br>0.01<br>9<br>5                                                                           | 0.015<br>0.005<br>9<br>8                                                                                          | 0.03<br>0.03<br>6<br>6                                             | 0.03<br>0.03<br>9<br>5                                                             |
| P96-8A       | 6/15/1998<br>10/19/1998<br>7/3/1999<br>10/29/1999<br>10/29/1999<br>5/31/2000<br>10/10/2000<br>6/7/2001<br>10/25/2001<br>6/11/2002<br>9/5/2002<br>9/25/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <.003<br>0.003<br><.003<br><.003<br><.003<br><.003<br>0.004<br><0.001<br><0.001<br><0.001                         | 0.38<br>0.32<br>0.46<br>1.25<br>0.3<br>0.51<br>0.06<br><0.3<br><0.03<br><0.3<br><0.3           | <.02<br><.02<br><.005<br>0.071<br><.005<br><.005<br><0.03<br><0.03<br><0.03<br><0.03            | <.05<br><.05<br>0.16<br><.05<br>0.07<br>0.09<br><0.2<br><0.1<br><0.1<br><0.1 | 0.077<br>0.037<br>0.027<br>0.118<br>0.065<br>0.041<br>0.129<br><0.04<br>0.06<br><0.02<br>0.02 | 0.003<br>0.002<br>0.002<br>0.002<br>0.002<br>0.003<br><.001<br><0.05<br><0.05<br><0.05                       | <,04<br>0.07<br><,04<br><,04<br><,05<br><,05<br><,05         | 506.7<br>572.2<br>416.6<br>523.4<br>259.9<br>425<br>418.3<br>474<br>346<br>437<br>571   | 0.002<br>0.013<br><.003<br>0.014<br>0.004<br>0.037<br>0.078<br>0.176<br>0.0014<br>0.097<br>0.101    | <.005<br><.005<br><.005<br><.005<br><.005<br><.005<br>0.01<br>0.009<br>0.02<br>0.005<br><0.02<br><0.02<br><0.02 | 0.072<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><0.013<br><0.005<br><0.05<br><0.05 | 0,031<br>0,038<br>0.042<br>0,006<br>0.022<br>0.041<br>0,004<br><0.05<br><0.05<br><0.05<br><0.05    | 0.05<br>0.06<br>0.19<br><.01<br>0.02<br>0.18<br>0.07<br><0.06<br>0.06<br><0.03<br><0.03 | 8<br>10<br>9<br>8<br>6<br>10<br>12<br>15<br>5<br>14<br>17 | <.005<br><.005<br>0.03<br><.005<br><.005<br><.005<br>0.045         | 276.4<br>354.5<br>299.8<br>362.1<br>188.9<br>235.6<br>471.8<br>692<br>189<br>620<br>767 | 1.64<br>3.19<br>0.76<br>3.96<br>0.9<br>2.08<br>21.7<br>97.5<br>1.6<br>44<br>43.8        | <.002<br><.002<br>0.019<br><.002<br><.002<br>0.072<br><.002<br><.002<br><0.05<br><0.05<br><0.05<br><0.05             | 35<br>41<br>30<br>39<br>20<br>26<br>34<br>53<br>14<br>49<br>62   | 0.074<br>0.171<br>0.063<br>0.135<br>0.074<br>0.259<br>0.992<br>1.39<br>0.019<br>0.74<br>0.74   | 4.75<br><.04<br><.04<br>0.17<br><1<br>7<br><1          | 0.04<br><.02<br><.01<br>0.02<br><.01<br>0.2<br><.01<br><0.03<br><0.03<br><0.03<br><0.03    | 567<br>845<br>763<br>998<br>447<br>584<br>1130     | <.03<br><.03<br><.03<br><.03<br><.03<br>0.11<br><.03<br><0.03<br><0.03<br><0.03<br><0.03<br><0.03 | <.03<br><.03<br><.03<br><.005<br><.005<br><.005<br><.005<br><.005<br><0.05<br><0.05<br><0.05<br><0.05<br><0.05 | 5,9<br>7<br>6,4<br>4<br>7<br>7,3<br>10.2                 | <.01<br><.01<br><.01<br><.01<br><.01<br><.01<br><.01<br><0.03<br><0.003<br><0.03<br><0.03 | 2.228<br>2.988<br>2.495<br>3.01<br>1.388<br>2.243<br>3.077                   | 0.025<br>0.03<br><.005<br><.005<br>0.017<br>0.041<br>0.055<br><0.02<br><0.003<br><0.01<br><0.01   | 0.011<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><0.06<br><0.03<br><0.03<br><0.03                   | <.03<br><.03<br><.03<br><.03<br><.03<br><.03<br><.03<br><.03       | 7.4<br>16.1<br>11.15<br>5.82<br>6.32<br>35.86<br>314<br>539<br><0.03<br>218<br>208 |
|              | Mean<br>Median<br>Values<br>Values <dl< td=""><td>0.0023<br/>0.003<br/>11<br/>9</td><td>0,38<br/>0,3<br/>11<br/>4</td><td>0.02<br/>0.02<br/>11<br/>10</td><td>0.09<br/>0.09<br/>11<br/>7</td><td>0.058<br/>0.041<br/>11<br/>2</td><td>0.016<br/>0.003<br/>11<br/>5</td><td>0.05<br/>0.05<br/>7<br/>6</td><td>450<br/>437<br/>11<br/>0</td><td>0.0477<br/>0.014<br/>11<br/>1</td><td>0.01<br/>0.005<br/>11<br/>7</td><td>0.024<br/>0.005<br/>11<br/>9</td><td>0.031<br/>0.038<br/>11<br/>4</td><td>0.07<br/>0.06<br/>11<br/>4</td><td>10<br/>10<br/>11<br/>0</td><td>0,014<br/>0.005<br/>7<br/>5</td><td>405.2<br/>354,5<br/>11<br/>0</td><td>20.1<br/>3.19<br/>11<br/>0</td><td>0.023<br/>0.005<br/>11<br/>9</td><td>37<br/>35<br/>11<br/>0</td><td>0.423<br/>0.171<br/>11<br/>0</td><td>2<br/>1<br/>7<br/>4</td><td>0,037<br/>0,02<br/>11<br/>8</td><td>762<br/>763<br/>7<br/>0</td><td>0.035<br/>0.03<br/>11<br/>10</td><td>0.024<br/>0.03<br/>11<br/>11</td><td>6.8<br/>7<br/>7<br/>0</td><td>0.015<br/>0.01<br/>11<br/>11</td><td>2.49<br/>2.495<br/>7<br/>0</td><td>0.62<br/>0.017<br/>11<br/>6</td><td>0.018<br/>0.007<br/>11<br/>9</td><td>0.03<br/>0.03<br/>7<br/>7</td><td>123.79<br/>16.1<br/>11<br/>1</td></dl<>                                          | 0.0023<br>0.003<br>11<br>9                                                                                        | 0,38<br>0,3<br>11<br>4                                                                         | 0.02<br>0.02<br>11<br>10                                                                        | 0.09<br>0.09<br>11<br>7                                                      | 0.058<br>0.041<br>11<br>2                                                                     | 0.016<br>0.003<br>11<br>5                                                                                    | 0.05<br>0.05<br>7<br>6                                       | 450<br>437<br>11<br>0                                                                   | 0.0477<br>0.014<br>11<br>1                                                                          | 0.01<br>0.005<br>11<br>7                                                                                        | 0.024<br>0.005<br>11<br>9                                                                                  | 0.031<br>0.038<br>11<br>4                                                                          | 0.07<br>0.06<br>11<br>4                                                                 | 10<br>10<br>11<br>0                                       | 0,014<br>0.005<br>7<br>5                                           | 405.2<br>354,5<br>11<br>0                                                               | 20.1<br>3.19<br>11<br>0                                                                 | 0.023<br>0.005<br>11<br>9                                                                                            | 37<br>35<br>11<br>0                                              | 0.423<br>0.171<br>11<br>0                                                                      | 2<br>1<br>7<br>4                                       | 0,037<br>0,02<br>11<br>8                                                                   | 762<br>763<br>7<br>0                               | 0.035<br>0.03<br>11<br>10                                                                         | 0.024<br>0.03<br>11<br>11                                                                                      | 6.8<br>7<br>7<br>0                                       | 0.015<br>0.01<br>11<br>11                                                                 | 2.49<br>2.495<br>7<br>0                                                      | 0.62<br>0.017<br>11<br>6                                                                          | 0.018<br>0.007<br>11<br>9                                                                                         | 0.03<br>0.03<br>7<br>7                                             | 123.79<br>16.1<br>11<br>1                                                          |
| P96-8B       | 5/15/1998<br>7/3/1999<br>10/29/1999<br>5/31/2000<br>10/10/2000<br>6/7/2001<br>10/25/2001<br>9/5/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <.003<br><.003<br><.003<br><.003<br><.003<br><.003<br>0.007<br><0.001<br><0.001                                   | 0.5<br>0.5<br>1.51<br>0.44<br>0.73<br>0.07<br><0.3<br><0.3                                     | <.02<br><,005<br>0.052<br><.005<br><.005<br><.005<br><0.03<br><0.03                             | <.05<br>0.24<br><.05<br>0.11<br>0.07<br>0.08<br><0.1<br><0.1                 | 0.092<br>0.033<br>0.202<br>0.09<br>0.043<br>0.125<br>0.03<br>0.04                             | 0,004<br>0,002<br>0,005<br>0,004<br>0,004<br><,001<br><0,05<br><0,05                                         | <.04<br><.04<br><.04<br><.05<br><.05<br><.05                 | 652.1<br>480.4<br>587.1<br>626.4<br>455.7<br>607.4<br>567<br>575                        | <,002<br><,001<br>0,005<br>0,003<br>0,022<br>0,03<br>0,023                                          | <.005<br><.005<br>0.022<br><.005<br>0.028<br>0.051<br>0.21<br>0.09                                              | 0.073<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><0.05<br><0.05                              | 0.045<br>0.044<br>0.013<br>0.042<br>0.053<br>0.005<br><0.05<br><0.05                               | 0.2<br>0.22<br>0.03<br>0.09<br>0.25<br>4.15<br>4.32<br>0.43                             | 9<br>9<br>10<br>10<br>11<br>15<br>13<br>14                | <.005<br>0.03<br><.005<br><.005<br><.005<br>0.051                  | 305.6<br>345.9<br>392.2<br>475.5<br>437.9<br>667.7<br>739<br>804                        | 8,8<br>2,69<br>15,96<br>14,63<br>13,89<br>26,88<br>77,3<br>43,2                         | <.002<br>0.026<br><.002<br><.002<br>0.042<br><.002<br><0.05<br><0.05                                                 | 36<br>33<br>40<br>39<br>46<br>47<br>41<br>52                     | <,005<br>0,007<br>0,032<br>0,102<br>0,162<br>0,806<br>0,88<br>0,5                              | 1.67<br><.04<br>0.36<br>1<br>5<br><1                   | <.02<br><.01<br><.01<br><.01<br>0.08<br><.01<br><0.03<br><0.03                             | 697<br>994<br>1073<br>1238<br>1090<br>1489         | <.03<br><.03<br><.03<br><.03<br>0.04<br><.03<br><0.03<br><0.03                                    | <,03<br><,03<br><,005<br><,005<br><,005<br><,005<br><0,05<br><0,05                                             | 8.3<br>9<br>7.3<br>9.7<br>8.7<br>15.2                    | <.01<br><.01<br><.01<br><.01<br><.01<br><.01<br><0.03<br><0.03                            | 2.534<br>2.591<br>3.042<br>3.157<br>2.992<br>3.824                           | 0.032<br><.005<br>0.005<br>0.034<br>0.046<br>0.059<br><0.01<br><0.01                              | <.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><0.03<br><0.03                                     | <.03<br><.03<br><.03<br><.03<br><.03<br><.03<br><.03               | 1.88<br>3.31<br>2.23<br>10.09<br>15.65<br>164<br>285<br>136                        |

#### Faro Site - Select Groundwater Quality Listing, 1998-2002, Dissolved Metals

| Station   | Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | AG-D                                                                                                 | AL-D                                                                            | AS-D                                                                                                        | B-0                                                                         | BA-D                                                                                | BE-D                                                                             | BI-D                                                         | CA-D                                                                            | CD-D                                                                                      | CO-D                                                                                   | CR-D                                                                                              | CU-D                                                                        | FE-D                                                                            | K-D                                            | LA-D                                                               | MG-D                                                                             | MN-D                                                                         | MO-D                                                                                            | NA-D                                                     | NI-D                                                                                 | P-D                                                | PB-D                                                                                       | S-D                                           | SB-0                                                                               | SE-D                                                                                                  | SI-D                                              | SN-D                                                                                       | SR-D                                                      | TI-D                                                                                     | V-D                                                                                             | W-D                                                  | ZN-D                                                                        |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------|
|           | 9/25/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | mg/L<br><0.001                                                                                       | mg/L<br><0,3                                                                    | mg/L<br><0.03                                                                                               | mg/L<br><0.1                                                                | गातु/L<br>0.04                                                                      | mg/L<br><0.05                                                                    | mg/L                                                         | mg/L<br>659                                                                     | mg/L<br>0.024                                                                             | mg/L<br>0.08                                                                           | тдЛ,<br><0.05                                                                                     | mg/L<br><0.05                                                               | mg/L.<br>0.38                                                                   | mg/L<br>15                                     | mg/L                                                               | mg/L<br>862                                                                      | mg/L<br>39,8                                                                 | mg/L<br><0.05                                                                                   | mg/L<br>56                                               | mg/L<br>0.5                                                                          | mg/L                                               | mg/L<br><0.03                                                                              | mg/L                                          | mg/L<br><0.03                                                                      | mg/L<br><0.05                                                                                         | mg/L                                              | mg/L<br><0.03                                                                              | mg/L                                                      | mg/L<br><0.01                                                                            | mg/L<br><0.03                                                                                   | mg/L                                                 | mg/L<br>129                                                                 |
|           | Mean<br>Median<br>Values<br>Values <dl< th=""><th>0,003<br/>0.003<br/>9<br/>8</th><th>0.52<br/>0.44<br/>9<br/>3</th><th>0.02<br/>0.02<br/>9<br/>8</th><th>0.1<br/>0.1<br/>9<br/>5</th><th>0.077<br/>0,043<br/>9<br/>0</th><th>0,019<br/>0.004<br/>9<br/>4</th><th>0.04<br/>0.04<br/>6<br/>6</th><th>578.9<br/>587.1<br/>9<br/>0</th><th>0.013<br/>0,01<br/>9<br/>2</th><th>0.055<br/>0.028<br/>9<br/>3</th><th>0.028<br/>0.005<br/>9<br/>8</th><th>0.039<br/>0.045<br/>9<br/>3</th><th>1.12<br/>0.25<br/>9<br/>0</th><th>12<br/>11<br/>9<br/>0</th><th>0.017<br/>0.005<br/>6<br/>4</th><th>558.9<br/>475.5<br/>9<br/>0</th><th>27.02<br/>15,96<br/>9<br/>0</th><th>0.025<br/>0.026<br/>9<br/>7</th><th>43<br/>41<br/>9<br/>0</th><th>0.333<br/>0.162<br/>9<br/>1</th><th>1.51<br/>1<br/>6<br/>2</th><th>0.03<br/>0.02<br/>9<br/>8</th><th>1097<br/>1082<br/>6<br/>0</th><th>0.03<br/>0.03<br/>9<br/>8</th><th>0.026<br/>0.03<br/>9<br/>9</th><th>9.7<br/>8.8<br/>6<br/>0</th><th>0.02<br/>0.01<br/>9<br/>9</th><th>3.023<br/>3.017<br/>6<br/>0</th><th>0.023<br/>0.01<br/>9<br/>4</th><th>0.013<br/>0.005<br/>9<br/>9</th><th>0,03<br/>0.03<br/>6<br/>6</th><th>83.13<br/>16.65<br/>9<br/>0</th></dl<>                                | 0,003<br>0.003<br>9<br>8                                                                             | 0.52<br>0.44<br>9<br>3                                                          | 0.02<br>0.02<br>9<br>8                                                                                      | 0.1<br>0.1<br>9<br>5                                                        | 0.077<br>0,043<br>9<br>0                                                            | 0,019<br>0.004<br>9<br>4                                                         | 0.04<br>0.04<br>6<br>6                                       | 578.9<br>587.1<br>9<br>0                                                        | 0.013<br>0,01<br>9<br>2                                                                   | 0.055<br>0.028<br>9<br>3                                                               | 0.028<br>0.005<br>9<br>8                                                                          | 0.039<br>0.045<br>9<br>3                                                    | 1.12<br>0.25<br>9<br>0                                                          | 12<br>11<br>9<br>0                             | 0.017<br>0.005<br>6<br>4                                           | 558.9<br>475.5<br>9<br>0                                                         | 27.02<br>15,96<br>9<br>0                                                     | 0.025<br>0.026<br>9<br>7                                                                        | 43<br>41<br>9<br>0                                       | 0.333<br>0.162<br>9<br>1                                                             | 1.51<br>1<br>6<br>2                                | 0.03<br>0.02<br>9<br>8                                                                     | 1097<br>1082<br>6<br>0                        | 0.03<br>0.03<br>9<br>8                                                             | 0.026<br>0.03<br>9<br>9                                                                               | 9.7<br>8.8<br>6<br>0                              | 0.02<br>0.01<br>9<br>9                                                                     | 3.023<br>3.017<br>6<br>0                                  | 0.023<br>0.01<br>9<br>4                                                                  | 0.013<br>0.005<br>9<br>9                                                                        | 0,03<br>0.03<br>6<br>6                               | 83.13<br>16.65<br>9<br>0                                                    |
| S1A       | 6/15/1998<br>10/31/1998<br>7/3/1999<br>10/31/1999<br>7/25/2000<br>10/22/2000<br>6/6/2001<br>10/26/2001<br>6/12/2002<br>9/25/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <.003<br>0.005<br><.003<br><.003<br><.003<br><.003<br><.003<br><0.0002<br><0.0002<br><0.0002         | 0.28<br>0.82<br>0.48<br>0.92<br>0.34<br>1,01<br>0.08<br><0.05<br><0.05<br><0.05 | <.02<br><.005<br><.005<br><.005<br><.005<br><.005<br><0.005<br><0.005<br><0.005                             | <.05<br><.05<br>0.31<br><.05<br><.05<br>0.06<br>0.1<br><0.1<br><0.2<br><0.1 | 0.034<br>0.066<br>0.023<br>0.168<br>0.125<br>0.07<br>0.094<br>0.02<br><0.04<br>0.02 | 0.003<br>0.003<br>0.002<br>0.003<br>0.004<br>0.005<br><.001<br><0.01<br><0.01    | <.04<br><.04<br><.04<br><.05<br><.05<br><.05                 | 436.7<br>523.5<br>423.8<br>452.8<br>471.3<br>453.6<br>462<br>657<br>639<br>641  | <.002<br>0.005<br><.001<br><.001<br>0.001<br>0.0025<br>0.0041<br>0.0053                   | <.005<br><.005<br><.005<br>0.011<br><.005<br><.005<br>0.005<br>0.004<br>0.006<br>0.006 | 0.148<br><.005<br><.005<br><.005<br><.005<br><.005<br>0.019<br><0.01<br><0.01<br><0.01            | 0.028<br>0.03<br>0.04<br>0.009<br>0.044<br>0.041<br>0.004<br><0.01<br><0.01 | 0.06<br>1.25<br>0.21<br>0.04<br>0.29<br>1.35<br>0.09<br><0.03<br><0.03<br><0.06 | 6<br>7<br>7<br>9<br>9<br>10<br>9<br>8<br>10    | <.005<br><.005<br>0.045<br><.005<br>0.116<br>0.022<br>0.044        | 218.9<br>333.5<br>315.2<br>300.6<br>334.9<br>318.2<br>393.9<br>524<br>542<br>624 | 0.58<br>2.42<br>1.89<br>6.33<br>8.1<br>9.39<br>7.21<br>22.8<br>26.8<br>28.3  | <.002<br><.002<br>0.017<br><.002<br><.002<br><.002<br><.002<br><.002<br><0.01<br><0.01<br><0.01 | 20<br>24<br>21<br>23<br>25<br>22<br>27<br>29<br>27<br>29 | 0.008<br>0.04<br>0.011<br>0.045<br>0.107<br>0.153<br>0.252<br>0.45<br>0.69<br>0.72   | 3,19<br>2.3<br><,04<br>0.2<br>7<br><1<br><1        | <.02<br><.01<br><.01<br><.01<br><.01<br><.01<br><.01<br><.005<br><0.005<br><0.005          | 442<br>784<br>785<br>844<br>843<br>786<br>988 | <.03<br><.03<br><.03<br><.03<br><.03<br><.03<br><.03<br><0.005<br><0.005<br><0.005 | <.03<br><.03<br><.03<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><0.01<br><0.01<br><0.01 | 7.5<br>10.1<br>10.9<br>7.5<br>9.5<br>10.9<br>13.3 | <.01<br><.01<br><.01<br><.01<br><.01<br><.01<br><.01<br><0.005<br><0.005<br><0.005         | 1,39<br>1.821<br>1.663<br>1.64<br>1.737<br>1.607<br>1.834 | 0.02<br>0.051<br><.005<br>0.006<br>0.041<br>0.083<br>0.026<br><0.01<br><0.002<br><0.002  | <.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><0.03<br><0.06<br><0.03          | <.03<br><.03<br><.03<br><.03<br><.03<br><.03<br><.03 | 0.1<br>0.23<br>0.61<br>0.21<br>1.25<br>0.31<br>3.56<br>8.37<br>23.2<br>34.5 |
|           | Mean<br>Median<br>Values<br>Values <dl< th=""><th>0.0024<br/>0.003<br/>10<br/>9</th><th>0.41<br/>0.31<br/>10<br/>3</th><th>0.009<br/>0.005<br/>10<br/>9</th><th>0.11<br/>0,08<br/>10<br/>7</th><th>0.066<br/>0.053<br/>10<br/>1</th><th>0.005<br/>0.004<br/>10<br/>4</th><th>0,04<br/>0.04<br/>7<br/>7</th><th>518.1<br/>476.6<br/>10<br/>D</th><th>0.0033<br/>0.0023<br/>10<br/>4</th><th>0,006<br/>0.005<br/>10<br/>5</th><th>0.022<br/>0.007<br/>10<br/>8</th><th>0.023<br/>0.019<br/>10<br/>3</th><th>0.34<br/>0.08<br/>10<br/>3</th><th>8<br/>8<br/>10<br/>0</th><th>0.035<br/>0.022<br/>7<br/>3</th><th>350,5<br/>334.2<br/>10<br/>0</th><th>11.38<br/>7.66<br/>10<br/>0</th><th>0.005<br/>0.002<br/>10<br/>9</th><th>25<br/>24<br/>10<br/>0</th><th>0.248<br/>0.13<br/>10<br/>D</th><th>2.1<br/>1<br/>7<br/>3</th><th>0.009<br/>0.01<br/>10<br/>9</th><th>782<br/>786<br/>7<br/>0</th><th>0,022<br/>0,03<br/>10<br/>10</th><th>0.014<br/>0.01<br/>10<br/>10</th><th>10<br/>10.1<br/>7<br/>0</th><th>0,008<br/>0.01<br/>10<br/>10</th><th>1,67<br/>1,683<br/>7<br/>0</th><th>0.025<br/>0.015<br/>10<br/>4</th><th>0.015<br/>0.005<br/>10<br/>10</th><th>0.03<br/>0.03<br/>7<br/>7</th><th>7.23<br/>0.93<br/>10<br/>0</th></dl<> | 0.0024<br>0.003<br>10<br>9                                                                           | 0.41<br>0.31<br>10<br>3                                                         | 0.009<br>0.005<br>10<br>9                                                                                   | 0.11<br>0,08<br>10<br>7                                                     | 0.066<br>0.053<br>10<br>1                                                           | 0.005<br>0.004<br>10<br>4                                                        | 0,04<br>0.04<br>7<br>7                                       | 518.1<br>476.6<br>10<br>D                                                       | 0.0033<br>0.0023<br>10<br>4                                                               | 0,006<br>0.005<br>10<br>5                                                              | 0.022<br>0.007<br>10<br>8                                                                         | 0.023<br>0.019<br>10<br>3                                                   | 0.34<br>0.08<br>10<br>3                                                         | 8<br>8<br>10<br>0                              | 0.035<br>0.022<br>7<br>3                                           | 350,5<br>334.2<br>10<br>0                                                        | 11.38<br>7.66<br>10<br>0                                                     | 0.005<br>0.002<br>10<br>9                                                                       | 25<br>24<br>10<br>0                                      | 0.248<br>0.13<br>10<br>D                                                             | 2.1<br>1<br>7<br>3                                 | 0.009<br>0.01<br>10<br>9                                                                   | 782<br>786<br>7<br>0                          | 0,022<br>0,03<br>10<br>10                                                          | 0.014<br>0.01<br>10<br>10                                                                             | 10<br>10.1<br>7<br>0                              | 0,008<br>0.01<br>10<br>10                                                                  | 1,67<br>1,683<br>7<br>0                                   | 0.025<br>0.015<br>10<br>4                                                                | 0.015<br>0.005<br>10<br>10                                                                      | 0.03<br>0.03<br>7<br>7                               | 7.23<br>0.93<br>10<br>0                                                     |
| \$1B      | 6/15/1998<br>10/31/1998<br>7/3/1999<br>10/31/1999<br>10/22/2000<br>6/6/2001<br>10/26/2001<br>6/12/2002<br>9/25/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <.003<br><.003<br><.003<br><.003<br><.003<br><.003<br><.003<br><0.0001<br><0.0001<br><0.0001         | 0.16<br>0.11<br>0.23<br>0.57<br>0.08<br><0.03<br>0.03<br><0.03                  | <.02<br><.005<br><.005<br><.005<br><.005<br>0.013<br><0.003<br><0.003<br><0.003                             | <.05<br><.05<br>0.19<br><.05<br><.05<br>0.1<br><0.1<br><0.2<br><0.1         | 0,039<br>0.035<br>0.014<br>0.142<br>0.046<br>0.14<br>0.03<br><0.04<br>0.04          | 0.002<br>0.001<br><.001<br><.001<br>0.003<br><.001<br><0.005<br><0.005<br><0.005 | <.04<br><.04<br><.04<br><.04<br><.05<br><.05                 | 239,5<br>280,3<br>145,5<br>234,2<br>231,7<br>328,7<br>344<br>325<br>350         | <.002<br>0.002<br><.001<br><.001<br><.001<br><.001<br>0.0006<br>0.0007<br>0.0004          | <.005<br><.005<br><.005<br>0.006<br><.005<br><.005<br><0.002<br>0.003<br><0.002        | <.005<br><.005<br><.005<br><.005<br><.005<br><0.007<br><0.005<br><0.005                           | <0.005                                                                      | 0.03<br>0.12<br>0.26<br>0.06<br>0.61<br>0.04<br>0.04<br>0.23<br><0.03           | 4<br>6<br>2<br>5<br>4<br>6<br>4<br>4<br>4      | <.005<br><.005<br>0.607<br><.005<br><.005<br>0.032                 | 58.8<br>73.7<br>40<br>59.5<br>50.8<br>131.6<br>89.3<br>83.4<br>89.5              | 0.05<br>0.31<br>0.27<br>0.12<br>0.62<br>0.62<br>0.094<br>0.854<br>0.016      | 0.003<br><.002<br><.002<br><.002<br><.002<br>0.003<br><0.005<br><0.005<br><0.005                | 36<br>45<br>29<br>38<br>46<br>76<br>57<br>47<br>63       | 0.007<br>0.018<br><.005<br><.005<br><.005<br><.005<br>0.012<br>0.01<br><0.005        | 1.38<br>1.47<br><.04<br><.04<br><1<br><1           | <.02<br><.01<br><.01<br><.01<br><.01<br><.01<br><.01<br><0.003<br><0.003<br><0.003         | 116<br>273<br>209<br>288<br>117<br>509        | <.03<br><.03<br><.03<br><.03<br><.03<br><.03<br><.03<br><.0003<br>0.005<br><0.003  | <.03<br><.03<br><.005<br><.005<br><.005<br><.005<br><0.005<br><0.005<br><0.005<br><0.005              | 5,6<br>7<br>5,8<br>5.8<br>7,5<br>8,2              | <.03<br><.01<br><.01<br><.01<br><.01<br>0.01<br><0.003<br><0.003<br><0.003                 | 0.665<br>0.872<br>0.491<br>0.689<br>0.674<br>1.174        | 0.011<br>0.013<br><.005<br><.005<br>0.046<br><.005<br><0.01<br><0.001<br><0.001          | <.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><0.03<br><0.06<br><0.03                   | <.03<br><.03<br><.03<br><.03<br><.03<br><.03<br><.03 | 0.05<br>0.03<br>0.11<br>0.03<br>0.04<br>0.1<br>0.05<br>0.07<br>0.03         |
|           | Mean<br>Median<br>Values<br>Values <dl< th=""><th>0.002<br/>0.003<br/>9<br/>9</th><th>0.16<br/>0.11<br/>9<br/>2</th><th>0,007<br/>0.005<br/>9<br/>8</th><th>0.1<br/>0.1<br/>9<br/>7</th><th>0.058<br/>0.04<br/>9<br/>1</th><th>0,003<br/>0,002<br/>9<br/>6</th><th>0.04<br/>0,04<br/>6<br/>6</th><th>275.4<br/>280,3<br/>9<br/>0</th><th>0.0011<br/>0.001<br/>9<br/>5</th><th>0.004<br/>0.005<br/>9<br/>7</th><th>0,007<br/>0,005<br/>9<br/>7</th><th>0.011<br/>0,005<br/>9<br/>3</th><th>0.16<br/>0.06<br/>9<br/>1</th><th>4<br/>4<br/>9<br/>0</th><th>0.01<br/>0.005<br/>6<br/>4</th><th>75,2<br/>73,7<br/>9<br/>0</th><th>0.328<br/>0.27<br/>9<br/>0</th><th>0,004<br/>0,003<br/>9<br/>7</th><th>49<br/>46<br/>9<br/>0</th><th>0.008<br/>0.005<br/>9<br/>5</th><th>0,82<br/>1<br/>6<br/>4</th><th>0.009<br/>0.01<br/>9<br/>9</th><th>252<br/>241<br/>6<br/>0</th><th>0,021<br/>0,03<br/>9<br/>8</th><th>0,013<br/>0,005<br/>9<br/>9</th><th>6.7<br/>6.4<br/>6<br/>0</th><th>0.008<br/>0.01<br/>9<br/>8</th><th>0.761<br/>0.682<br/>6<br/>0</th><th>0.011<br/>0.005<br/>9<br/>6</th><th>0.017<br/>0.005<br/>9<br/>9</th><th>0.03<br/>0.03<br/>6<br/>6</th><th>0.06<br/>0.05<br/>9<br/>0</th></dl<>                                  | 0.002<br>0.003<br>9<br>9                                                                             | 0.16<br>0.11<br>9<br>2                                                          | 0,007<br>0.005<br>9<br>8                                                                                    | 0.1<br>0.1<br>9<br>7                                                        | 0.058<br>0.04<br>9<br>1                                                             | 0,003<br>0,002<br>9<br>6                                                         | 0.04<br>0,04<br>6<br>6                                       | 275.4<br>280,3<br>9<br>0                                                        | 0.0011<br>0.001<br>9<br>5                                                                 | 0.004<br>0.005<br>9<br>7                                                               | 0,007<br>0,005<br>9<br>7                                                                          | 0.011<br>0,005<br>9<br>3                                                    | 0.16<br>0.06<br>9<br>1                                                          | 4<br>4<br>9<br>0                               | 0.01<br>0.005<br>6<br>4                                            | 75,2<br>73,7<br>9<br>0                                                           | 0.328<br>0.27<br>9<br>0                                                      | 0,004<br>0,003<br>9<br>7                                                                        | 49<br>46<br>9<br>0                                       | 0.008<br>0.005<br>9<br>5                                                             | 0,82<br>1<br>6<br>4                                | 0.009<br>0.01<br>9<br>9                                                                    | 252<br>241<br>6<br>0                          | 0,021<br>0,03<br>9<br>8                                                            | 0,013<br>0,005<br>9<br>9                                                                              | 6.7<br>6.4<br>6<br>0                              | 0.008<br>0.01<br>9<br>8                                                                    | 0.761<br>0.682<br>6<br>0                                  | 0.011<br>0.005<br>9<br>6                                                                 | 0.017<br>0.005<br>9<br>9                                                                        | 0.03<br>0.03<br>6<br>6                               | 0.06<br>0.05<br>9<br>0                                                      |
| 52A       | 6/15/1998<br>10/31/1998<br>7/3/1999<br>10/31/1999<br>7/25/2000<br>6/5/2001<br>6/12/2002<br>9/25/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <.003<br><.003<br><.003<br><.003<br><.003<br><.003<br><.003<br><0.0001<br><0.0002                    | 0.32<br>0.14<br>0.38<br>0.61<br>0.16<br>0.11<br>0.04<br>0.59                    | <.02<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><0.003<br><0.003                              | <.05<br><.05<br>0.44<br><.05<br><.05<br>0.11<br><0.1                        | 0,068<br>0,055<br>0.04<br>0,143<br>0,07<br>0,17<br>0,06<br>0,03                     | 0.002<br>0.002<br><.001<br><.001<br>0.003<br><.001<br><0.005<br><0.01            | <.04<br><.04<br><.04<br><.04<br><.05<br><.05                 | 311,8<br>379,8<br>336,8<br>376,3<br>404,4<br>256,9<br>498<br>526                | <.002<br>0.002<br><.001<br><.001<br>0.007<br>0.003<br>0.0036<br>0.007                     | <,005<br>0.013<br><,005<br><,005<br>0.016<br><,005<br>0.005<br>0.005                   | <.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><.0.05<br><.0.01 | 0.021<br>0.029<br>0.034<br><.002<br>0.038<br><.002<br><0.005<br><0.01       | 0.99<br>0.42<br>0.43<br><.01<br>0.55<br>1.47<br>4.43<br>2.55                    | 5<br>5<br>6<br>7<br>6<br>10<br>8               | 0.008<br><.005<br>0.035<br><.005<br>0.116<br>0.035                 | 77.1<br>89.4<br>137.7<br>95.7<br>102.7<br>164.7<br>433<br>505                    | 2.43<br>5.39<br>0.94<br>4.19<br>3.41<br>3.03<br>20.1<br>27.5                 | 0.005<br><.002<br>0.012<br><.002<br><.002<br><.002<br><0.005<br><0.01                           | 8<br>15<br>11<br>12<br>14<br>14<br>21<br>22              | <.005<br>0.024<br><.005<br><.005<br>0.035<br><.005<br>0.391<br>0.57                  | 2.53<br>3.19<br>0.08<br>0.11<br>6<br><1            | <.02<br><.01<br><.01<br><.01<br><.01<br>0.02<br><0.003<br><0.005                           | 176<br>356<br>497<br>462<br>469<br>421        | <.03<br><.03<br><.03<br><.03<br><.03<br><.03<br><.03<br>0.006<br><0.005            | <,03<br><,03<br><,03<br><,005<br><,005<br><,005<br><0.005<br><0.005<br><0.01                          | 5.4<br>7.2<br>7.5<br>4.8<br>5.8<br>8.4            | <.01<br><.01<br><.01<br><.01<br><.01<br><.01<br><0.003<br><0.005                           | 1.037<br>1.417<br>1.432<br>1.411<br>1.466<br>1.027        | 0.019<br>0.016<br><.005<br><.005<br>0.034<br><.005<br><0.001<br><0.002                   | <.005<br><.005<br><.005<br><.005<br>0.005<br><0.03<br><0.03                                     | <.03<br><.03<br><.03<br><.03<br><.03<br><.03         | 0.05<br>0.05<br>0.04<br><.01<br>0.31<br>0.76<br>22.2<br>39.7                |
|           | Mean<br>Median<br>Values<br>Values <ol< th=""><th>0.0023<br/>0,003<br/>8<br/>8</th><th>0,29<br/>0.24<br/>8<br/>0</th><th>0.007<br/>0,005<br/>8<br/>8</th><th>0.12<br/>0.08<br/>8<br/>6</th><th>0.08<br/>0.064<br/>8<br/>0</th><th>0.003<br/>0.002<br/>8<br/>5</th><th>0.04<br/>0.04<br/>6<br/>6</th><th>386,2<br/>378<br/>8<br/>0</th><th>0.0033<br/>0.0025<br/>8<br/>3</th><th>0.007<br/>0.005<br/>8<br/>4</th><th>0.007<br/>0,005<br/>8<br/>7</th><th>0.018<br/>0.015<br/>8<br/>4</th><th>1.36<br/>0.78<br/>8<br/>1</th><th>6<br/>6<br/>8<br/>0</th><th>0.034<br/>0.022<br/>6<br/>2</th><th>200.7<br/>120.2<br/>8<br/>0</th><th>8.37<br/>3.8<br/>8<br/>0</th><th>0.005<br/>0.003<br/>8<br/>6</th><th>15<br/>14<br/>8<br/>0</th><th>0,13<br/>0.015<br/>8<br/>4</th><th>2.15<br/>1.76<br/>6<br/>1</th><th>0.011<br/>0.01<br/>8<br/>7</th><th>397<br/>442<br/>6<br/>0</th><th>0.024<br/>0.03<br/>8<br/>7</th><th>0,015<br/>0,007<br/>8<br/>8</th><th>6.5<br/>6.5<br/>0</th><th>0.008<br/>0.01<br/>8<br/>8</th><th>1,298<br/>1,414<br/>6<br/>0</th><th>0.011<br/>0.005<br/>8<br/>5</th><th>0,011<br/>0,005<br/>8<br/>7</th><th>0.03<br/>0.03<br/>6<br/>6</th><th>7,89<br/>0.18<br/>8<br/>1</th></ol<>                                   | 0.0023<br>0,003<br>8<br>8                                                                            | 0,29<br>0.24<br>8<br>0                                                          | 0.007<br>0,005<br>8<br>8                                                                                    | 0.12<br>0.08<br>8<br>6                                                      | 0.08<br>0.064<br>8<br>0                                                             | 0.003<br>0.002<br>8<br>5                                                         | 0.04<br>0.04<br>6<br>6                                       | 386,2<br>378<br>8<br>0                                                          | 0.0033<br>0.0025<br>8<br>3                                                                | 0.007<br>0.005<br>8<br>4                                                               | 0.007<br>0,005<br>8<br>7                                                                          | 0.018<br>0.015<br>8<br>4                                                    | 1.36<br>0.78<br>8<br>1                                                          | 6<br>6<br>8<br>0                               | 0.034<br>0.022<br>6<br>2                                           | 200.7<br>120.2<br>8<br>0                                                         | 8.37<br>3.8<br>8<br>0                                                        | 0.005<br>0.003<br>8<br>6                                                                        | 15<br>14<br>8<br>0                                       | 0,13<br>0.015<br>8<br>4                                                              | 2.15<br>1.76<br>6<br>1                             | 0.011<br>0.01<br>8<br>7                                                                    | 397<br>442<br>6<br>0                          | 0.024<br>0.03<br>8<br>7                                                            | 0,015<br>0,007<br>8<br>8                                                                              | 6.5<br>6.5<br>0                                   | 0.008<br>0.01<br>8<br>8                                                                    | 1,298<br>1,414<br>6<br>0                                  | 0.011<br>0.005<br>8<br>5                                                                 | 0,011<br>0,005<br>8<br>7                                                                        | 0.03<br>0.03<br>6<br>6                               | 7,89<br>0.18<br>8<br>1                                                      |
| S2B       | 6/15/1998<br>10/31/1998<br>7/3/1999<br>7/25/2000<br>10/22/2000<br>6/6/2001<br>10/26/2001<br>6/12/2002<br>9/25/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <.003<br><.003<br><.003<br><.003<br><.003<br><.003<br><.003<br><.003<br><0.0002<br>0.0001<br><0.0001 | 0.19<br>0.36<br>0.37<br><.05<br><.05<br>0.38<br>0.11<br><0.05<br><0.03<br><0.03 | <.02<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><0.042<br><0.005<br><0.003<br><0.003 | <.05<br><.05<br><.05<br><.05<br><.05<br><.05<br><.05<br><.05                | 0,071<br>0.037<br>0.045<br>0,11<br>0.042<br>0.249<br>0.159<br>0.04<br>0.03<br>0.04  | 0.002<br>0.001<br><.001<br><.001<br>0.002<br>0.003<br><.001<br><0.005<br><0.005  | <,04<br><,04<br><,04<br><,04<br><,05<br><,05<br><,05<br><,05 | 308.5<br>182.9<br>302.1<br>129.3<br>93.3<br>235.5<br>252.2<br>491<br>237<br>477 | <,002<br>0,003<br><,001<br><,001<br>0,002<br><,001<br><,001<br>0,0006<br>0,0008<br>0,0016 | <.005<br>0.006<br><.005<br><.005<br>0.027<br><.005<br>0.008<br>0.009<br>0.003<br>0.01  | 0,012<br><,005<br><,005<br><,005<br><,005<br><,005<br><0.01<br><0.005<br><0.005<br><0.005         |                                                                             | 1.88<br>2.56<br>0.31<br><.01<br>1.37<br>0.37<br>3.34<br>45.9<br>7.08<br>50.1    | 6<br>4<br>5<br>5<br>8<br>8<br>9<br>4<br>4<br>4 | <.005<br><.005<br><.005<br><.005<br><.005<br>0.09<br>0.01<br>0.036 | 114.1<br>69<br>138.3<br>49.3<br>38.4<br>96.8<br>169,1<br>105<br>92.6<br>192      | 1.54<br>1.34<br>0.42<br>0.77<br>0.58<br>0.56<br>3.06<br>7.53<br>2.59<br>10.9 | <.002<br><.002<br>0.01<br><.002<br><.002<br><.002<br><.002<br><0.01<br><0.005<br><0.005         | 12<br>9<br>10<br>8<br>6<br>11<br>13<br>12<br>7<br>14     | <.005<br>0.007<br><.005<br><.005<br>0.023<br>0.021<br><.005<br>0.02<br>0.024<br>0.08 | 1.61<br><,04<br><,04<br><,04<br>5<br>5<br><1<br><1 | <.02<br><.01<br><.01<br><.01<br><.01<br><.01<br><.01<br>0.03<br><0.005<br><0.003<br><0.003 | 242<br>183<br>433<br>115<br>129<br>232<br>400 | <.03<br>0.05<br><.03<br><.03<br><.03<br>0.04<br><.03<br><0.005<br><0.003<br><0.003 | <.03<br><.03<br><.03<br><.005<br><.005<br><.005<br><.005<br><.005<br><0.01<br><0.005<br><0.005        | 8.1<br>8.4<br>7.8<br>5.6<br>2.2<br>6.8<br>9.6     | <.01<br><.01<br><.01<br><.01<br><.01<br><.01<br><.01<br>0.02<br><0.005<br><0.003<br><0.003 | 0.981<br>0.58<br>1.271<br>0.515<br>0.419<br>0.905<br>0.94 | 0.013<br>0.027<br><.005<br><.005<br>0.017<br>0.034<br>0.007<br><0.01<br><0.001<br><0.001 | <.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><0.03<br><0.03<br><0.03 | <.03<br><.03<br><.03<br><.03<br><.03<br><.03<br><.03 | 0.08<br>0.14<br>0.07<br>0.2<br>0.22<br>0.05<br>1.37<br>0.19<br>1.1<br>9.3   |
|           | Mean<br>Median<br>Values<br>Values <dl< th=""><th>0.0021<br/>0.003<br/>10<br/>9</th><th>0.16<br/>0.08<br/>10<br/>5</th><th>0,01<br/>0,005<br/>10<br/>9</th><th>0.08<br/>0.08<br/>10<br/>8</th><th>0.082<br/>0.044<br/>10<br/>0</th><th>0.003<br/>0.002<br/>10<br/>6</th><th>0.04<br/>0.04<br/>7<br/>7</th><th>270.9<br/>244.6<br/>10<br/>0</th><th>0,0014<br/>0,001<br/>10<br/>5</th><th>0.008<br/>0.005<br/>10<br/>4</th><th>0.006<br/>0.005<br/>10<br/>9</th><th>0.02<br/>0.01<br/>10<br/>5</th><th>11.29<br/>2.22<br/>10<br/>1</th><th>6<br/>5<br/>10<br/>0</th><th>0.022<br/>0.005<br/>7<br/>4</th><th>106.5<br/>100,9<br/>10<br/>0</th><th>2.93<br/>1.44<br/>10<br/>0</th><th>0.004<br/>0.002<br/>10<br/>9</th><th>10<br/>10<br/>10<br/>0</th><th>0.019<br/>0.013<br/>10<br/>4</th><th>1.25<br/>1<br/>7<br/>5</th><th>0.011<br/>0.01<br/>10<br/>9</th><th>248<br/>232<br/>7<br/>0</th><th>0.025<br/>0.03<br/>10<br/>8</th><th>0.013<br/>0.005<br/>10<br/>10</th><th>6.9<br/>7.8<br/>7<br/>0</th><th>0.009<br/>0,01<br/>10<br/>9</th><th>0.816<br/>0.905<br/>7<br/>0</th><th>0.012<br/>0.008<br/>10<br/>5</th><th>0.012<br/>0.005<br/>10<br/>10</th><th>0.03<br/>0.03<br/>7<br/>7</th><th>1.27<br/>0.2<br/>10<br/>0</th></dl<>    | 0.0021<br>0.003<br>10<br>9                                                                           | 0.16<br>0.08<br>10<br>5                                                         | 0,01<br>0,005<br>10<br>9                                                                                    | 0.08<br>0.08<br>10<br>8                                                     | 0.082<br>0.044<br>10<br>0                                                           | 0.003<br>0.002<br>10<br>6                                                        | 0.04<br>0.04<br>7<br>7                                       | 270.9<br>244.6<br>10<br>0                                                       | 0,0014<br>0,001<br>10<br>5                                                                | 0.008<br>0.005<br>10<br>4                                                              | 0.006<br>0.005<br>10<br>9                                                                         | 0.02<br>0.01<br>10<br>5                                                     | 11.29<br>2.22<br>10<br>1                                                        | 6<br>5<br>10<br>0                              | 0.022<br>0.005<br>7<br>4                                           | 106.5<br>100,9<br>10<br>0                                                        | 2.93<br>1.44<br>10<br>0                                                      | 0.004<br>0.002<br>10<br>9                                                                       | 10<br>10<br>10<br>0                                      | 0.019<br>0.013<br>10<br>4                                                            | 1.25<br>1<br>7<br>5                                | 0.011<br>0.01<br>10<br>9                                                                   | 248<br>232<br>7<br>0                          | 0.025<br>0.03<br>10<br>8                                                           | 0.013<br>0.005<br>10<br>10                                                                            | 6.9<br>7.8<br>7<br>0                              | 0.009<br>0,01<br>10<br>9                                                                   | 0.816<br>0.905<br>7<br>0                                  | 0.012<br>0.008<br>10<br>5                                                                | 0.012<br>0.005<br>10<br>10                                                                      | 0.03<br>0.03<br>7<br>7                               | 1.27<br>0.2<br>10<br>0                                                      |
| <b>S3</b> | 6/15/1998<br>10/31/1998<br>10/31/1998<br>7/25/2000<br>10/22/2000<br>6/6/2001<br>10/26/2001<br>6/12/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <.003<br>0.003<br><.003<br><.003<br><.003<br><.003<br><0.0002<br>0.0005                              | 0.28<br>0.3<br>0.58<br>0.24<br>0.54<br>0.11<br><0.05<br><0.05                   | <.02<br><.005<br><.005<br><.005<br><.005<br><.005<br><.005<br>0.018<br>0.018                                | <,05<br><,05<br><,05<br><,05<br>0,06<br>0,1<br><0,1<br><0,2                 | 0.085<br>0.073<br>0.151<br>0.082<br>0.054<br>0.121<br>0.08<br>0.07                  | 0.003<br>0.002<br><.001<br>0.004<br>0.004<br><.001<br><0.01<br><0.01             | <.04<br><.04<br><.04<br><.05<br><.05<br><.05                 | 393.3<br>371.8<br>380<br>360.4<br>399.8<br>449.2<br>600<br>705                  | <,002<br>0,002<br><,001<br>0,004<br>0,001<br><,001<br><0,0005<br><0,0005                  | <.005<br>0.007<br><.005<br>0.019<br><.005<br>0.013<br>0.019<br>0.026                   | 0.008<br><,005<br><,005<br><,005<br><,005<br><,005<br>0.009<br><0,01<br><0,01                     | 0.02<br>0.021<br>0.002<br>0.037<br>0.036<br>0.002<br><0.01<br><0.01         | 0.68<br>3.11<br>0.07<br>0.33<br>8.79<br>16.19<br>16.6<br>17.6                   | 6<br>6<br>5<br>9<br>8<br>10<br>9<br>11         | <.005<br><.005<br><.005<br>0.065<br><.005<br>0.046                 | 216.6<br>225.9<br>248.5<br>252.4<br>269.9<br>380.8<br>499<br>669                 | 0.98<br>1.44<br>1.9<br>2.07<br>2.07<br>1.77<br>9.16<br>17.7                  | <.002<br><.002<br><.002<br><.002<br><.002<br><.002<br><.002<br><0.01<br><0.01                   | 18<br>15<br>18<br>19<br>17<br>22<br>23<br>24             | <,005<br>0,01<br><,005<br>0,007<br>0,025<br>0,054<br>0,05<br>0,14                    | 1.33<br><.04<br>0.17<br>8<br><1<br><1              | <,02<br><,01<br><,01<br><,01<br><,01<br><,01<br>0,02<br><0,005<br><0,005                   | 441<br>621<br>706<br>675<br>665<br>931        | <.03<br><.03<br><.03<br><.03<br><.03<br><.03<br><0.005<br><0.005                   | <.03<br><.03<br><.005<br><.005<br><.005<br><.005<br><.005<br><0.01<br><0.01                           | 7.3<br>7.2<br>5.6<br>7.6<br>8.8<br>13.2           | <.01<br><.01<br><.01<br><.01<br><.01<br><.01<br><.005<br><0.005<br><0.005                  | 1.37<br>1.406<br>1.483<br>1.421<br>1.451<br>1.853         | 0.017<br>0.023<br><.005<br>0.033<br>0.045<br><.005<br><0.01<br><0.002                    | <.005<br><.005<br><.005<br><.005<br><.005<br><.005<br><0.03<br><0.03                            | <.03<br><.03<br><.03<br><.03<br><.03<br><.03<br><.03 | 0.11<br>0.1<br>0.03<br>0.24<br>0.05<br>0.03<br>4.18<br>17,5                 |

|                                  |                                                                                  | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| 9/25/2002                        | Mean<br>Median<br>Values <01,<br>Values <01,                                     | 6/15/1998<br>10/20/1998<br>7/4/1999<br>10/30/1999<br>665/2001<br>9/23/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Mean<br>Median<br>Values<br>Values <di,< th=""><th>6/16/1998<br/>10/20/1998<br/>7/4/1999<br/>10/30/1999<br/>6/4/2000<br/>10/22/2000<br/>6/5/2001<br/>10/25/2001<br/>6/11/2002<br/>9/23/2002</th><th>Mean<br/>Median<br/>Values <dl< th=""><th>6/15/1998<br/>10/20/1998<br/>10/20/1998<br/>6/4/2000<br/>10/22/2000<br/>8/5/2001<br/>10/25/2001<br/>9/23/2002</th><th>Mean<br/>Median<br/>Values<br/>Values <dl< th=""><th>6(29/1998<br/>10/19/1998<br/>10/20/1999<br/>6/20/1999<br/>6/4/2000<br/>6/4/2001<br/>10/22/2000<br/>6/1/2001<br/>10/25/2001</th><th>Mean<br/>Median<br/>Values<br/>Values <dl< th=""><th>6/29/1998<br/>6/29/1998<br/>10/19/1999<br/>6/20/1999<br/>6/20/1999<br/>6/1/2000<br/>6/11/2002</th><th>Mean<br/>Median<br/>Values<br/>Values ≺DL</th></dl<></th></dl<></th></dl<></th></di,<> | 6/16/1998<br>10/20/1998<br>7/4/1999<br>10/30/1999<br>6/4/2000<br>10/22/2000<br>6/5/2001<br>10/25/2001<br>6/11/2002<br>9/23/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Mean<br>Median<br>Values <dl< th=""><th>6/15/1998<br/>10/20/1998<br/>10/20/1998<br/>6/4/2000<br/>10/22/2000<br/>8/5/2001<br/>10/25/2001<br/>9/23/2002</th><th>Mean<br/>Median<br/>Values<br/>Values <dl< th=""><th>6(29/1998<br/>10/19/1998<br/>10/20/1999<br/>6/20/1999<br/>6/4/2000<br/>6/4/2001<br/>10/22/2000<br/>6/1/2001<br/>10/25/2001</th><th>Mean<br/>Median<br/>Values<br/>Values <dl< th=""><th>6/29/1998<br/>6/29/1998<br/>10/19/1999<br/>6/20/1999<br/>6/20/1999<br/>6/1/2000<br/>6/11/2002</th><th>Mean<br/>Median<br/>Values<br/>Values ≺DL</th></dl<></th></dl<></th></dl<> | 6/15/1998<br>10/20/1998<br>10/20/1998<br>6/4/2000<br>10/22/2000<br>8/5/2001<br>10/25/2001<br>9/23/2002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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|                                  | 0.012<br>9.01<br>9                                                               | 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 200°, 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|                                  | 1.497<br>1.436<br>6<br>0                                                         | 0.228<br>0.193<br>0.609<br>0.303<br>0.327                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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0.37<br>0.464<br>0.415<br>0.415<br>0.427<br>0.427<br>0.513<br>0.513                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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|                                  | 0.016<br>0.01<br>5<br>5                                                          | 0.029<br>0.085<br><.005<br><.005<br>0.007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| 669,6333                         | 0.017<br>0.005<br>9<br>9                                                         | 0.017<br>0.017<br>0.017<br>0.005<br>0.005<br>0.005<br>0.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| 0-S                                              | L mgA       |                    |          | 201            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - 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        |       | .,     | 263       |            |    | 2212212222                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |                   |            | 110      |          | • •        |                |          |                 |        | 117.6             | - 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| D-84                                             | -րցա -      |                    | < 02     | 5              | ÷0;>     | 0.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <.02           | 20,5      | ē,         | 0,0      | ÷.01           | 50.5                                 | 0.007             | COO'0×    |       | 0.01   | 0.0       | 8          | 9  |                                                                                                                                                                                                                                                                                                                                                                               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| 0-4                                              | - mgA       |                    | 0.46     | <b>0</b> ,     | v        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| C'IN O                                           | ., mgA      |                    | 0.02     | <.005          | 0.008    | 0.007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.006          | 0.008     | \$00.*     | 0.009    | \$10.0         | < 005                                | 60.0 <sup>5</sup> | \$00'0×   |       | 800.0  | 000       | \$         | •  | STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, 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| O-MA-D                                           | - mgA       |                    | 1        | 2              | 0        | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 0-0N                                             | mg/L        | Contraction of the | <.002    | <.002          | <.002    | 0,005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.004         |        | 0000          | 4      | - 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04       | φ  | San San San San San San San San San San                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.009         | 0.01              | < 002      | <.002    | < 002    | 0.003      | ¢0,01          | <0.01    | <0.005          | 0.00 A | 0.005             | 6          | 9          |
| O-NN                                             | 1/6cu       | Contraction of the | 0.33     | 0.02           | 0.05     | 0.0121                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.14          | 10110  | 0.05          | 5      | • •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                       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                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.01           | 80.0      | 0.03       | 0.26     | 0.02           | 0.48                                 | 0,005             | <0.002    |       | ant'o  | 0.025     |            | -  | a hall had been a                                                                                                                                                                                                                                                                                                                                                             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| Q-DM                                             | ղնա         | Southern Bar       | 43.1     | 47,8           | 54.6     | 49.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36,8          |        | 474           | - 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FT     | . 0        | Þ  | THE SEAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 127.6         | 130.2             | 118.4      | 125.2    | 120.3    | 180.9      | 199            | 207      | 205             | 101    | 130.2             | 6          | 0          |
| LA:D                                             | ութու       | CALL COLOR         | <.005    | \$00°×         | 0.014    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| ₽¥.                                              |             |                    | •        | N              | 4        | <b>n</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| FE-D                                             | mg/L        |                    | 0.24     | ×.01           | 0.84     | £0.05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10.>          | 10 <sup>.</sup> 2 | <u>6</u> , | 0,03     | 0.09     | 5          | <0,03          | <0.03    | <0.03           | 10.0   | E0'0              | ø          | *          |
| CU-D                                             | mgP         |                    | 0.02     | <,002          | 0.123    | 0,007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.007         | 610.0  | 0.007         | -      | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | and construction of some states                                                                                                                                                                                                                                                       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                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.022          | 120.0     | *.002      | 10.034   | 0,035          | 0.003                                | <0,01             | <0,005    | 0.047 | 10.0   | 47.5°     | • •        | 2  | Sten Exc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.026         | 0,025             | 0.005      | 0.017    | 0.031    | <.002      | <0.01          | <0.01    | <0.005          | 0.016  | 0.01              | <b>6</b>   | 4          |
| CR-D                                             | Jem         |                    | <.005    | <.005<br>▲.005 | <,005    | <0.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>€0.002</b> | 0.004  | 0.005         | ю      | 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | and the second of the second                                                                                                                                                                                                                                                          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                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.574          | <b>3</b>  | ×,005      | <.005    | <,005<br><,005 | <,005<br><,005                       | <u>6</u> .0       | <0.005    | 0.027 | 200.0  | cno'n •   | • •        | -  | States of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.081         | <,005             | ×.005      | <.005    | <,005    | <.005      | 10,05          | 10'0y    | <0.005          | 0.015  | 0.005             | ¢          | ¢          |
| CO:D                                             | MgA         |                    | 0.006    | <.005          | 0.013    | <0.0006                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.0024        | 0.0054 | 0.005         | 6      | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | A PERSONNAL AND A PERSONNAL AND A                                                                                                                                                                                                                                                     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| CD-D                                             | mor         |                    | <.002    | <,001          | ×.001    | 2000.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| CA-D                                             | mgAL        |                    | 149.3    | 170.1          | 172.3    | 176                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 0.18                                             | Jlem        |                    | ě,       | ¥0,4           | 92       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| BA-D                                             | ացև որը ացև | - 32               |          |                |          | 0.08<br>0.08<br>0.08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| Date                                             |             | WIND STREET        | 10/13/19 | 10/30/19       | 02/22/01 | 1002/52/01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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                                                                                                                                                                                               |               | ~2     | *             | -      | ~                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | a si su su su su su su su su su su su su su                                                                                                                                                                                                                                           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| <b></b>                                          | NG (        | E.                 |          |                |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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Faro Site - Seloct Groundwater Quality Listing, 1998-2002, Dissolved Metals

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Faro Dissolved Metals

Page 5 of 5

| Station Date                                                                          | PH-F               | TEMP-C                                                                    | SO4-T      | COND                                      | ALK-T                                          | HARD-T<br>(CACO3) |
|---------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------|------------|-------------------------------------------|------------------------------------------------|-------------------|
|                                                                                       | pH unit            | alu për së dë së së së<br>Kë të kë së | mg/L       | μS/cm                                     | mg/L                                           | mg/L              |
| /34 (GW94-01)                                                                         | trup swip antibus. |                                                                           |            | an an an an an an an an an an an an an a  |                                                | NAME OF CONSIDER  |
| 31/05/98                                                                              | 7                  |                                                                           | 31         | antonia e ded U Analossano (traggio e da. | er die Fritzense de Stritzenen George Frige ge |                   |
| 14/09/98                                                                              |                    |                                                                           | 34         |                                           |                                                |                   |
| 31/12/98                                                                              | 7.35               |                                                                           | 27         |                                           |                                                |                   |
| 18/06/99                                                                              | 7.85               | 5                                                                         | 23         |                                           |                                                |                   |
| 12/10/99                                                                              | 6.79               | 2                                                                         | 26         | 815                                       | 489                                            |                   |
| 31/05/00                                                                              | 7.71               | 4                                                                         | 26         |                                           |                                                |                   |
| 09/10/00                                                                              | 7.51               | 3.8                                                                       | 470        |                                           |                                                |                   |
| 05/06/01                                                                              | 7.5                | 4.5                                                                       | 29         | 757                                       | 400                                            | 467               |
| 04/09/01                                                                              |                    |                                                                           | 32         |                                           | 448                                            | 525               |
| 11/06/02                                                                              | 6.9                | 2.8                                                                       | 40         | 772                                       | 448                                            | 470               |
| 24/09/02                                                                              | 8.13               |                                                                           | 42         |                                           | 441                                            | 474               |
| Mean                                                                                  | 7.42               | 3.7                                                                       | 71         | 794                                       | 445                                            | 484               |
| Median                                                                                | 7.5                | 3.9                                                                       | 31         | 794                                       | 448                                            | 472               |
| Values                                                                                | 9                  | 6                                                                         | 11         | 2                                         | 5                                              | 4                 |
| Values <dl< td=""><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></dl<>  | 0                  | 0                                                                         | 0          | 0                                         | 0                                              | 0                 |
| /35 (GW94-02)                                                                         |                    |                                                                           |            | Distants Manage                           |                                                | En Contrational   |
| 31/05/98                                                                              | 6.82               |                                                                           | 147        |                                           |                                                |                   |
| 14/09/98                                                                              |                    |                                                                           | 648        |                                           |                                                |                   |
| 31/12/98                                                                              | 6.99               |                                                                           | 805        |                                           |                                                |                   |
| 18/06/99                                                                              | 7.21               | 3                                                                         | 768        |                                           |                                                |                   |
| 12/10/99                                                                              | 6.77               | 1                                                                         | 142        | 910                                       | 374                                            |                   |
| 31/05/00                                                                              | 6.78               | 6                                                                         | 86         |                                           |                                                |                   |
| 09/10/00                                                                              | 7.38               | 4.6                                                                       | 360        |                                           |                                                |                   |
| 05/06/01                                                                              | 7.6                | 6.1                                                                       | 307        | 1076                                      | 426                                            | 685               |
| 04/09/01                                                                              |                    |                                                                           | 236        |                                           | 365                                            | 669               |
| 11/06/02                                                                              | 6.6                | 2.6                                                                       | 1090       | 2074                                      | 487                                            | 1280              |
| 24/09/02                                                                              | 8                  |                                                                           | 579        | 1340                                      | 402                                            | 868               |
| Mean                                                                                  | 7.13               | 3.9                                                                       | 470        | 1492                                      | 411                                            | 876               |
| Median                                                                                | 6.99               | 3.8                                                                       | 360        | 1492                                      | 402                                            | 776               |
| Values                                                                                | 9                  | 6                                                                         | 11         | 2                                         | 5                                              | 4                 |
| Values` <dl< td=""><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></dl<> | 0                  | 0                                                                         | 0          | 0                                         | 0                                              | 0                 |
| 36 (GW94-03)                                                                          |                    |                                                                           |            |                                           |                                                |                   |
| 31/05/98                                                                              | 6.92               |                                                                           | 350        |                                           |                                                |                   |
| 14/09/98                                                                              | ~ ~ ~              |                                                                           | 245        |                                           |                                                |                   |
| 31/12/98                                                                              | 6.88               | 0 000                                                                     | 279        |                                           |                                                |                   |
| 18/06/99                                                                              | 7.29               | 3.000                                                                     | 271        |                                           |                                                |                   |
| 12/10/99                                                                              | 6.27               | 1                                                                         | 313        | 1200                                      | 394                                            |                   |
| 31/05/00                                                                              | 7.78               | 3                                                                         | 320        |                                           |                                                |                   |
| 09/10/00                                                                              | 7.08               | 2.4                                                                       | 420        |                                           |                                                |                   |
| 05/06/01                                                                              | 7.70               | 2.9                                                                       | 448        | 1321                                      | 400                                            | 819               |
| 04/09/01                                                                              |                    |                                                                           | 408        | 100-                                      | 423                                            | 899               |
|                                                                                       |                    |                                                                           | 000        | 4000                                      | 444                                            | 005               |
| 11/06/02<br>24/09/02                                                                  | 7.60<br>7.95       | 2.5                                                                       | 369<br>545 | 1223<br>1400                              | 414<br>390                                     | 805<br>938        |

# Vangorda Plateau Site - Select Groundwater Quality Listing, 1998-2002, Physical Parameters

Vangorda Plateau Physical Parameters

| Station Date<br>Mean<br>Median<br>Values                                                                                                                                                                                                                                                                                                                                                                                                        | PH-F<br>pH unit<br>7.27<br>7.29<br>9                                                   | 2.5<br>2.7<br>6                  | SO4-T<br>mg/L<br>361<br>350<br>11                                                                               | COND<br>µS/cm<br>1212<br>1212<br>2 | ALK-T<br>mg/L<br>404<br>400<br>5                            | HARD-<br>(CACO3<br>mg/L<br>865<br>859<br>4            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------|-------------------------------------------------------|
| Values <dl< th=""><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th></dl<>                                                                                                                                                                                                                                                                                                                                                            | 0                                                                                      | 0                                | 0                                                                                                               | 0                                  | 0                                                           | 0                                                     |
| 7 (GW94-04)                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                        |                                  |                                                                                                                 |                                    | ang ang ang ang ang ang ang ang ang ang                     | DWANNA SO SISTER                                      |
| 31/05/98                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7.36                                                                                   |                                  | 54                                                                                                              |                                    |                                                             |                                                       |
| 14/09/98                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                        |                                  | 65                                                                                                              |                                    |                                                             |                                                       |
| 31/12/98                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7.25                                                                                   |                                  | 74                                                                                                              |                                    |                                                             |                                                       |
| 18/06/99                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7.48                                                                                   | 3                                | 66                                                                                                              |                                    |                                                             |                                                       |
| 12/10/99                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6.07                                                                                   | 1                                | 62                                                                                                              | 775                                | 426                                                         |                                                       |
| 31/05/00                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                        |                                  | 62                                                                                                              |                                    |                                                             |                                                       |
| 09/10/00                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8.02                                                                                   | 5.3                              | 279                                                                                                             |                                    |                                                             |                                                       |
| 05/06/01                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8                                                                                      | 2.6                              | 99                                                                                                              | 836                                | 426                                                         | 390                                                   |
| 04/09/01                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                        |                                  | 88                                                                                                              |                                    | 458                                                         | 575                                                   |
| 11/06/02                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8.2                                                                                    | 3.1                              | 93                                                                                                              | 849                                | 426                                                         | 449                                                   |
| 24/09/02                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8.13                                                                                   |                                  | 84                                                                                                              | 815                                | 429                                                         | 437                                                   |
| Mean                                                                                                                                                                                                                                                                                                                                                                                                                                            | 7.56                                                                                   | 3                                | 93                                                                                                              | 812                                | 433                                                         | 463                                                   |
| Median                                                                                                                                                                                                                                                                                                                                                                                                                                          | 7.74                                                                                   | 3                                | 74                                                                                                              | 812                                | 426                                                         | 443                                                   |
| Values                                                                                                                                                                                                                                                                                                                                                                                                                                          | 8                                                                                      | 5                                | 11                                                                                                              | 2                                  | 5                                                           | 4                                                     |
| Values <dl< td=""><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></dl<>                                                                                                                                                                                                                                                                                                                                                            | 0                                                                                      | 0                                | 0                                                                                                               | 0                                  | 0                                                           | 0                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                        |                                  |                                                                                                                 |                                    |                                                             |                                                       |
| 001-02A                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                        |                                  | Contraction of the second second second second second second second second second second second second second s |                                    | A CONTRACTOR OF A                                           | THURSDAY AND AND AND AND AND AND AND AND AND AND      |
| 001-02A<br>11/06/02                                                                                                                                                                                                                                                                                                                                                                                                                             | 7.7                                                                                    | 3                                | 149                                                                                                             | 990                                | 453                                                         | 585                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 7.7<br>8.03                                                                            | 3                                | 149<br>154                                                                                                      | 990                                | 453<br>470                                                  | 585<br>589                                            |
| 11/06/02                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                        | 3                                |                                                                                                                 | 990                                |                                                             |                                                       |
| 11/06/02<br>24/09/02                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                        |                                  |                                                                                                                 | 990                                |                                                             |                                                       |
| 11/06/02<br>24/09/02<br>001-02B                                                                                                                                                                                                                                                                                                                                                                                                                 | 8.03<br>7.5                                                                            | 3                                | 154                                                                                                             | 990<br>1058                        | 470                                                         | 589                                                   |
| 11/06/02<br>24/09/02<br>001-02B<br>13/09/01<br>11/06/02<br>24/09/02                                                                                                                                                                                                                                                                                                                                                                             | 8.03                                                                                   |                                  | 154<br>199                                                                                                      |                                    | 470<br>476                                                  | 589<br>511                                            |
| 11/06/02<br>24/09/02<br>001-02B<br>13/09/01<br>11/06/02<br>24/09/02<br>001-03                                                                                                                                                                                                                                                                                                                                                                   | 8.03<br>7.5                                                                            |                                  | 154<br>199<br>175<br>231                                                                                        |                                    | 470<br>476<br>471<br>456                                    | 589<br>511<br>575<br>643                              |
| 11/06/02<br>24/09/02<br>001-02B<br>13/09/01<br>11/06/02<br>24/09/02<br>001-03<br>13/09/01                                                                                                                                                                                                                                                                                                                                                       | 8.03<br>7.5<br>8.06                                                                    | 2                                | 154<br>199<br>175<br>231<br>89                                                                                  | 1058                               | 470<br>476<br>471<br>456<br>473                             | 589<br>511<br>575<br>643<br>389                       |
| 11/06/02<br>24/09/02<br>001-02B<br>13/09/01<br>11/06/02<br>24/09/02<br>001-03<br>13/09/01<br>11/06/02                                                                                                                                                                                                                                                                                                                                           | 8.03<br>7.5<br>8.06<br>7                                                               |                                  | 154<br>199<br>175<br>231<br>89<br>190                                                                           |                                    | 470<br>476<br>471<br>456<br>473<br>408                      | 589<br>511<br>575<br>643<br>389<br>495                |
| 11/06/02<br>24/09/02<br>001-02B<br>13/09/01<br>11/06/02<br>24/09/02<br>001-03<br>13/09/01<br>11/06/02<br>24/09/02                                                                                                                                                                                                                                                                                                                               | 8.03<br>7.5<br>8.06                                                                    | 2                                | 154<br>199<br>175<br>231<br>89                                                                                  | 1058                               | 470<br>476<br>471<br>456<br>473                             | 589<br>511<br>575<br>643<br>389                       |
| 11/06/02<br>24/09/02<br>001-02B<br>13/09/01<br>11/06/02<br>24/09/02<br>001-03<br>13/09/01<br>11/06/02<br>24/09/02<br>•9A                                                                                                                                                                                                                                                                                                                        | 8.03<br>7.5<br>8.06<br>7<br>8.13                                                       | 2                                | 154<br>199<br>175<br>231<br>89<br>190<br>143                                                                    | 1058                               | 470<br>476<br>471<br>456<br>473<br>408                      | 589<br>511<br>575<br>643<br>389<br>495                |
| 11/06/02<br>24/09/02<br>001-02B<br>13/09/01<br>11/06/02<br>24/09/02<br>001-03<br>13/09/01<br>11/06/02<br>24/09/02<br>9A<br>31/05/98                                                                                                                                                                                                                                                                                                             | 8.03<br>7.5<br>8.06<br>7                                                               | 2                                | 154<br>199<br>175<br>231<br>89<br>190<br>143<br>102                                                             | 1058                               | 470<br>476<br>471<br>456<br>473<br>408                      | 589<br>511<br>575<br>643<br>389<br>495                |
| 11/06/02<br>24/09/02<br>001-02B<br>13/09/01<br>11/06/02<br>24/09/02<br>001-03<br>13/09/01<br>11/06/02<br>24/09/02<br>•9A<br>31/05/98<br>15/09/98                                                                                                                                                                                                                                                                                                | 8.03<br>7.5<br>8.06<br>7<br>8.13                                                       | 2                                | 154<br>199<br>175<br>231<br>89<br>190<br>143                                                                    | 1058                               | 470<br>476<br>471<br>456<br>473<br>408                      | 589<br>511<br>575<br>643<br>389<br>495                |
| 11/06/02<br>24/09/02<br>001-02B<br>13/09/01<br>11/06/02<br>24/09/02<br>001-03<br>13/09/01<br>11/06/02<br>24/09/02<br>•9A<br>31/05/98<br>15/09/98<br>31/12/98                                                                                                                                                                                                                                                                                    | 8.03<br>7.5<br>8.06<br>7<br>8.13<br>7.26                                               | 2<br>3.6                         | 154<br>199<br>175<br>231<br>89<br>190<br>143<br>102<br>203                                                      | 1058                               | 470<br>476<br>471<br>456<br>473<br>408                      | 589<br>511<br>575<br>643<br>389<br>495                |
| 11/06/02<br>24/09/02<br>001-02B<br>13/09/01<br>11/06/02<br>24/09/02<br>001-03<br>13/09/01<br>11/06/02<br>24/09/02<br>-9A<br>31/05/98<br>15/09/98<br>31/12/98<br>18/06/99                                                                                                                                                                                                                                                                        | 8.03<br>7.5<br>8.06<br>7<br>8.13                                                       | 2                                | 154<br>199<br>175<br>231<br>89<br>190<br>143<br>102<br>203<br>181                                               | 1058<br>992                        | 470<br>476<br>471<br>456<br>473<br>408<br>431               | 589<br>511<br>575<br>643<br>389<br>495                |
| 11/06/02<br>24/09/02<br>001-02B<br>13/09/01<br>11/06/02<br>24/09/02<br>001-03<br>13/09/01<br>11/06/02<br>24/09/02<br>-9A<br>31/05/98<br>15/09/98<br>31/12/98<br>18/06/99<br>12/10/99                                                                                                                                                                                                                                                            | 8.03<br>7.5<br>8.06<br>7<br>8.13<br>7.26<br>6.96                                       | 2<br>3.6<br>4                    | 154<br>199<br>175<br>231<br>89<br>190<br>143<br>102<br>203<br>181<br>168                                        | 1058                               | 470<br>476<br>471<br>456<br>473<br>408                      | 589<br>511<br>575<br>643<br>389<br>495                |
| 11/06/02<br>24/09/02<br>001-02B<br>13/09/01<br>11/06/02<br>24/09/02<br>001-03<br>13/09/01<br>11/06/02<br>24/09/02<br>-9A<br>31/05/98<br>15/09/98<br>31/12/98<br>18/06/99<br>12/10/99<br>31/05/00                                                                                                                                                                                                                                                | 8.03<br>7.5<br>8.06<br>7<br>8.13<br>7.26<br>6.96<br>7.43                               | 2<br>3.6<br>4<br>5               | 154<br>199<br>175<br>231<br>89<br>190<br>143<br>102<br>203<br>181<br>168<br>668                                 | 1058<br>992                        | 470<br>476<br>471<br>456<br>473<br>408<br>431               | 589<br>511<br>575<br>643<br>389<br>495                |
| 11/06/02<br>24/09/02<br>001-02B<br>13/09/01<br>11/06/02<br>24/09/02<br>001-03<br>13/09/01<br>11/06/02<br>24/09/02<br>9A<br>31/05/98<br>31/12/98<br>15/09/98<br>31/12/98<br>18/06/99<br>12/10/99<br>31/05/00<br>09/10/00                                                                                                                                                                                                                         | 8.03<br>7.5<br>8.06<br>7<br>8.13<br>7.26<br>6.96<br>7.43<br>6.51                       | 2<br>3.6<br>4<br>5<br>5.6        | 154<br>199<br>175<br>231<br>89<br>190<br>143<br>102<br>203<br>181<br>168<br>668<br>545                          | 1058<br>992                        | 470<br>476<br>471<br>456<br>473<br>408<br>431<br>157        | 589<br>511<br>575<br>643<br>389<br>495<br>500         |
| 11/06/02<br>24/09/02<br>001-02B<br>13/09/01<br>11/06/02<br>24/09/02<br>001-03<br>13/09/01<br>11/06/02<br>24/09/02<br>9A<br>31/05/98<br>15/09/98<br>31/12/98<br>18/06/99<br>12/10/99<br>31/05/00<br>09/10/00<br>05/06/01                                                                                                                                                                                                                         | 8.03<br>7.5<br>8.06<br>7<br>8.13<br>7.26<br>6.96<br>7.43<br>6.51<br>6.7                | 2<br>3.6<br>4<br>5<br>5.6<br>3.5 | 154<br>199<br>175<br>231<br>89<br>190<br>143<br>102<br>203<br>181<br>168<br>668                                 | 1058<br>992<br>650                 | 470<br>476<br>471<br>456<br>473<br>408<br>431               | 589<br>511<br>575<br>643<br>389<br>495                |
| 11/06/02<br>24/09/02<br>001-02B<br>13/09/01<br>11/06/02<br>24/09/02<br>001-03<br>13/09/01<br>11/06/02<br>24/09/02<br>9A<br>31/05/98<br>31/12/98<br>15/09/98<br>31/12/98<br>18/06/99<br>12/10/99<br>31/05/00<br>09/10/00<br>05/06/01<br>11/06/02                                                                                                                                                                                                 | 8.03<br>7.5<br>8.06<br>7<br>8.13<br>7.26<br>6.96<br>7.43<br>6.51<br>6.7<br>7.4         | 2<br>3.6<br>4<br>5<br>5.6        | 154<br>199<br>175<br>231<br>89<br>190<br>143<br>102<br>203<br>181<br>168<br>668<br>545<br>948                   | 1058<br>992                        | 470<br>476<br>471<br>456<br>473<br>408<br>431<br>157<br>203 | 589<br>511<br>575<br>643<br>389<br>495<br>500<br>1143 |
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| 11/06/02<br>24/09/02<br>001-02B<br>13/09/01<br>11/06/02<br>24/09/02<br>001-03<br>13/09/01<br>11/06/02<br>24/09/02<br>9A<br>31/05/98<br>31/12/98<br>15/09/98<br>31/12/98<br>18/06/99<br>12/10/99<br>31/05/00<br>09/10/00<br>05/06/01<br>11/06/02                                                                                                                                                                                                 | 8.03<br>7.5<br>8.06<br>7<br>8.13<br>7.26<br>6.96<br>7.43<br>6.51<br>6.7<br>7.4         | 2<br>3.6<br>4<br>5<br>5.6<br>3.5 | 154<br>199<br>175<br>231<br>89<br>190<br>143<br>102<br>203<br>181<br>168<br>668<br>545<br>948                   | 1058<br>992<br>650                 | 470<br>476<br>471<br>456<br>473<br>408<br>431<br>157<br>203 | 589<br>511<br>575<br>643<br>389<br>495<br>500<br>1143 |
| 11/06/02<br>24/09/02<br>001-02B<br>13/09/01<br>11/06/02<br>24/09/02<br>001-03<br>13/09/01<br>11/06/02<br>24/09/02<br>9A<br>31/05/98<br>15/09/98<br>31/12/98<br>18/06/99<br>12/10/99<br>31/05/00<br>09/10/00<br>05/06/01<br>11/06/02<br>24/09/02<br>9B                                                                                                                                                                                           | 8.03<br>7.5<br>8.06<br>7<br>8.13<br>7.26<br>6.96<br>7.43<br>6.51<br>6.7<br>7.4<br>7.69 | 2<br>3.6<br>4<br>5<br>5.6<br>3.5 | 154<br>199<br>175<br>231<br>89<br>190<br>143<br>102<br>203<br>181<br>168<br>668<br>545<br>948<br>1280           | 1058<br>992<br>650                 | 470<br>476<br>471<br>456<br>473<br>408<br>431<br>157<br>203 | 589<br>511<br>575<br>643<br>389<br>495<br>500<br>1143 |
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### Vangorda Plateau Site - Select Groundwater Quality Listing, 1998-2002, Physical Parameters

| Vangorda Plateau Site - Select Groundwater Quality List | ting, 1998-2002, Physical Parameters |
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| Station Date | PH-F<br>pH unit | TEMP-C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SO4-T<br>mg/L | COND<br>µS/cm | ALK-T<br>mg/L | HARD-T<br>(CACO3)<br>mg/L |
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             | 4.9 C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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125.1<br>148.9<br>148.9<br>147.1<br>147.1<br>147.1<br>152.4<br>152.4<br>152.4<br>152.4<br>162.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>163.2<br>17<br>163.2<br>17<br>163.2<br>17<br>17<br>17<br>17<br>17<br>17<br>17<br>17<br>17<br>17<br>17<br>17<br>17 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| Mail         Trail           1         1           2         2           2         2           2         2           2         2           2         2           2         2           2         2           2         2           2         2           2         2           2         2           2         2           2         2           2         2           2         2           2         2           2         2           2         2           2         2           2         2           2         2           2         2           2         2           2         2           2         2           2         2           2         2           3         2           3         2           3         2           3         3           3         3           3         3           3         3<                                                                                                                                                                                                                  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| 5<br>6<br>6<br>6<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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                                                                                                                                                 | 887D                                                        |
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| mgL<br>6.4<br>5.5<br>5.5<br>5.5<br>5.5<br>5.5<br>5.5<br>5.5<br>5.5<br>5.5<br>5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| ₩<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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0.0365<br>0.031<br>0.021<br>0.029<br>0.029<br>0.029<br>0.029<br>0.0247<br>0.034<br>0.047<br>0.034<br>0.034<br>0.034<br>0.034<br>0.034<br>0.034<br>0.034<br>0.034<br>0.034<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.035<br>0.00 | 0.043<br>0.021<br>0.021<br>0.025<br>0.025<br>0.045<br>0.045<br>0.045<br>0.045<br>0.045<br>0.045<br>0.025<br>0.02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.132<br>0.087<br>11<br>0                                   |
| • 11<br>• 12<br>• 12                                                                                                                                                                                                                                                   | <pre>* * * * * * * * * * * * * * * * * * *</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| , multi<br>0.04<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.003<br>0.003<br>0.003<br>0.003<br>0.003<br>11<br>11<br>11<br>11<br>11<br>11<br>11<br>11<br>11<br>1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.05<br>0.05<br>0.05<br>0.02<br>0.02<br>0.02<br>0.04<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05                                                                                                                                                                                                  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                                                                                                                                                 | 0.01<br>1105<br>6                                           |
| mgL<br>201<br>201<br>201<br>201<br>201<br>201<br>201<br>201                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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                                                                                                                                                 | 0.27<br>0.05<br>11<br>6                                     |
| Mgm<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,003<br>4,0, | <ul> <li>&lt;.003</li> <li></li> <li>&lt;.003</li> /ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <ul> <li>4.003</li> <li></li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                                      | 0.00219<br>0.003<br>11<br>11                                |
| V34 (OW04-01)<br>3105/99<br>3105/99<br>3105/99<br>3105/99<br>3105/99<br>3105/99<br>3105/99<br>9105/99<br>9105/99<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>91000<br>9105/00<br>9105/00<br>9105/00<br>9105/00<br>910000000000000000000000000000000000 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Vangorda Plateau Dissolved Metals

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|--|--|----------------------------------------|--|--|--|--|--|--|--|---|---------|--|---------|---|--|-------------------------|--|--|--|
|--|--|----------------------------------------|--|--|--|--|--|--|--|---|---------|--|---------|---|--|-------------------------|--|--|--|

#### Vangorda Plateau Site - Select Groundwater Quality Listing, 1998-2002, Dissolved Metals

| Station                                 | Date                   | AG-D           | AL-D           | AS-D           | B-D          | BA-D           | BE-D           | B -D         | CA-D         | CD-D           | CO-D           | CR-D            | CU-D           | FE-D               | K-D  | LA-D           | MG-D           | MN-D         | MO-D           | NA-D              | NI-D   | P-D                                      | PB-D       | S-D              | SB-D     | SE-D           | SI-D    | SN-D                                     | SR-D       | TI-D       | V-D          | W-D        | ZN-D       |
|-----------------------------------------|------------------------|----------------|----------------|----------------|--------------|----------------|----------------|--------------|--------------|----------------|----------------|-----------------|----------------|--------------------|------|----------------|----------------|--------------|----------------|-------------------|--------|------------------------------------------|------------|------------------|----------|----------------|---------|------------------------------------------|------------|------------|--------------|------------|------------|
|                                         |                        | mg/L           | mg/L           | mg/L           | mg/L         | mg/L           | mg/L           | mg/L         | mg/L         | mg/L           | mg/L           | mg/L            | mg/L           | mg/L               | mg/L | mg/L           | mg/L           | mg/L         | mg/L           | mg/L              | mg/L   |                                          | mg/L       | mg/L             | mg/L     | mg/L           | mg/L    | mg/L                                     | mg/L       | mg/L       | mg/L         | mg/L       | mg/L       |
|                                         | 13/09/01               | <0.001         | 0.01           | 0.01           | <0.1         | 0,05           | <0.002         | 89,8         | 0.0002       |                | <0.002         | <0.002          | < 0.03         | 11                 | 69,6 | 0.213          | 0,028          | 52           | 0,009          | 0.002             | 0.017  | <0.002                                   | < 0.001    | <0.01            | <0.03    | 0.007          |         |                                          |            |            |              |            |            |
|                                         | 11/6/2002              | <0.00004       | <0.01          | 0.013          | <0.1         | 0.04           | <0.002         | 114          | <0.0001      |                | <0.002         | <0.002          | 1.\$3          | 7                  | 70.3 | 0.524          | <0,002         | 37           | <0,002         |                   | <0.001 | 0.004                                    |            | <0.0004          | < 0.03   | <0.01          |         |                                          |            |            |              |            |            |
| (12) (12) (12) (12) (12) (12) (12) (12) | 24/09/02               | <0.00004       | 1              | 0.033          | <0.1         | 0.07           | <0,002         | 133          | 0.0001       | 0.0015         | <0.003         | 0,003           | 2.72           | 5                  | 75.5 | 0.599          | 0.007          | 14           | 0.003          | 0.017             | <0,001 | <0.002                                   |            | <0.0004          | <0.03    | 0.01           |         |                                          |            |            |              |            | -          |
| P2001-0.                                |                        |                | 8              |                |              |                | -0.004         |              | 0.00000      | Section Car    | an at at see   | 0.001           |                |                    |      | 1.20           |                |              |                | -0.000            |        |                                          |            |                  |          |                | inizia. |                                          | - diana    | شنجي يردون |              | () <u></u> |            |
|                                         | 13/09/01<br>11/6/2002  | <0.0005        | 0.013<br><0.01 | 0.0026         | <0,1<br><0.1 | 0.04           | <0.001         | 68.3<br>99.2 | 0.00062      |                | <0.001 <0.002  | 0.001<br><0.002 | 0.34           | 3                  | 53   | 1.26<br>0.716  | 0.007<br>0.029 | 24<br>60     | 0,003<br>0,003 | <0.0005           | 0.0262 | <0.001                                   |            | <0.01<br><0.0004 | <0.03    | 0.014          |         |                                          |            |            |              |            |            |
|                                         | 24/09/02               | <0.00004       | <0.01          | 0.006          | <0.1         | 0.05           | <0.002         | 99,2<br>97.5 | <0.0001      |                |                | <0.002          | 0.51           | -                  | 62.2 | 0.721          | 0.029          | 42           | <0.003         |                   | <0.001 | <0.002                                   |            | <0.0004          | <0.03    | <0.01<br><0.01 |         |                                          |            |            |              |            |            |
| 96-8A                                   |                        | 40.00004       | -0.01          | 0.000          | -0,1         | 0.04           | 40,002         | 5,,10        | -0.0001      |                | -0.002         | -0.002          | 0.01           | Sale of the second |      | V.7£1          | 0.017          |              | -0,002         |                   |        | ~0.002                                   | -0.001     |                  | ~0.03    | ~0.01          |         | a na |            |            |              |            | ألاحتديقار |
| UNTERTS LUGGE                           | 31/05/98               | <,003          | 0.1            | < 0.2<br>< 0.2 | <.05         | 0.095          | 0.002          | <.04         | 46.2         | < 002          | <.005          | <.005           | 0.006          | 0.24               | 2    | 0.028          | 23.2           | 0.08         | 0.015          | 50                | <.005  | 0.33                                     | <.02       | 34               | <.03     | <.03           | 49      | < 01                                     | 0.973      | 0.008      | 0.005        | < 03       | <.01       |
|                                         | 15/09/98               | <.003          | 0.97           | 0.04           | <.05         | 0.37           | 0.001          | <.04         | 164.9        | <.002          | <.005          | 0.055           | 0.026          | 0.45               | 3    | 0.018          | 68.5           | 0.08         | 0.009          | 15                | 0.009  | 1.03                                     | <.02       | 67.7             | <.03     | <.03           | 8.3     | <.01                                     | 1.079      | 0.028      | <.005        | <.03       | 8.07       |
|                                         | 18/06/99               | <.003          | 0,29           | <.005          | <.05         | 0.078          | <.001          | < 04         | 67,8         | < 001          | <.005          | < 005           | 0.012          | 0.21               | 4    | <.005          | 34.9           | 0.62         | 0.011          | 53                | < 005  | <.04                                     | 0.01       | 60               | <.03     | <.03           | 5.6     | <.01                                     | 1.029      | <.005      | <.005        | < 03       | <.01       |
|                                         | 12/10/1999             | <,003          | <.05           | <.005          | <.05         | 0.027          | <.001          | <.04         | 43,3         | 0.001          | <,005          | 0.011           | <.002          | 0.11               | 2    | <.005          | 22.3           | 0,04         | <.002          | 45                | 0.005  | 0.06                                     | <.01       | 56               | <.03     | <.005          | 3       | <.01                                     | 1.058      | <.005      | <.005        | <.03       | <.01       |
|                                         | 31/05/00               | <.003          | <.05           | <.005          | <.05         | 0,215          | 0.001          | <,05         | 182          | <,001          | <.005          | <.005           | 0.013          | 0.03               | 4    | <.005          | 70,2           | 6.36         | <,002          | 15                | 0,017  | <1                                       | <.01       | 223              | <.03     | <.005          | 7.2     | <.01                                     | 1.065      | <.005      | <.005        | <.03       | <.01       |
|                                         | 9/10/2000              | <.003          | 0,34           | 0.01           | <.05         | 0.106          | 0,002          | <.05         | 201          | 0.002          | 0.015          | <.005           | 0.029          | 0.17               | 6    | <.005          | 74.7           | 1,49         | <.002          | 16                | <.005  | 2                                        | 0.01       | 182              | <.03     | <.005          | 7.5     | <.01                                     | 0,87       | 0.024      | 0.013        | <.03       | 0.01       |
|                                         | 5/6/2001               | <.003          | 0.11           | <,005          | <.05         | 0.297          | <.001          | <.05         | 267,3        | <,001          | 0,006          | <.005           | <.002          | 11.76              | 5    | 0.032          | 116,5          | 3.64         | <,002          | 11                | <,005  | <1                                       | <.01       | 316              | <.03     | <.005          | 5,8     | <.01                                     | 1.194      | <.005      | <.005        | <,03       | 0.03       |
|                                         | 24/09/02               | <0.0001        | <0,03          | <0.003         | <0,1         | 0.07           | <0.005         | 409          | 0.0014       | <0.002         | <0.005         | <0,005          | <0.03          | 5                  | 219  | 0,366          | <0.005         | 14           | 0.014          | <0.003            | <0,003 | <0.005                                   | < 0.003    | <0.001           | <0.03    | <0.03          |         |                                          |            |            |              |            |            |
| 96-9B                                   |                        | mennetique     |                | atter sei -    |              |                | in the second  | Cherry Ch    | 1.000        |                |                |                 |                |                    |      |                |                |              |                | 3 . <u>67</u> 6 ( |        | () () () () () () () () () () () () () ( | - Cogersta | de en            | 2 / 10 2 | in in the      | man in  |                                          | the second |            | 2 <u>1</u> 1 |            |            |
|                                         | 31/05/98               | <.003          | <.05           | <.02           | <.05         | 0.09           | 0.002          | <.04         | 51           | <.002          | <.005          | <.005           | 0,008          | 0.21               | 1    | 0.036          | 24.9           | 0.06         | 0.005          | 54                | 0.009  | <.04                                     | <.02       | 32               | <.03     | <.03           | 5       | <,01                                     | 1.139      | 0.007      | 0.005        | <.03       | <.01       |
|                                         | 15/09/98               | <.003          | <,05           | <.02           | <,05         | 0.057          | <.001          | <.04         | 44.4         | <.002          | 0.007          | < 005           | 0,005          | <.01               | z    | <.005          | 22.4           | 0.05         | 0.021          | 46                | <.005  | 0.3                                      | <.02       | 51.8             | <.03     | <.03           | 3.3     | <.01                                     | 1.067      | <.005      | <,005        | <.03       | 0,03       |
|                                         | 18/06/99<br>12/10/1999 | <.003<br><.003 | 0.17           | <,005          | <.05         | 0,042          | <.001          | <.04         | 66           | <.001<br><.001 | <,005          | <.005           | 0,017<br>0,004 | 0.12               |      | 0.026          | 35.9<br>22.3   | 0.21<br>0.06 | 0,019<br><.002 | 76                | <.005  | 0,1                                      | <.01       | 63               | 0.05     | <.03           | 6.6     | <.01                                     | 1.444      | <.005      | <.005        | <.03       | <.01       |
|                                         |                        | <.003          | 0,14           | <.005          | ~.05         | 0.026          | <.001<br><.001 | ×,04         | 77.9<br>10 P |                | 0.006          | 0.005           | <.002          | 0.09               | ź    | <.005<br><.005 |                |              | <,002          | 10                | <,005  | 0.05                                     | <.01       | 56               | <.03     | <.005          | 3./     | <.01                                     | 1.12       | 0.006      | <.005        | <.03       | <,01       |
|                                         | 31/05/00<br>5/6/2001   | <.003          | 0,11           | <.005<br><.005 | ~ 05         | 0,063<br>0,163 | <.001          | <.05         | 39.8         | <.001<br><.001 | <.005<br><.005 | <.005<br><.005  | <.002          | <.01<br>0.31       | 4    | 0.01           | 19,3<br>22.2   | 0.73<br>0.27 | 0.012          | 40                | <.005  | <1                                       | <.01       | 59               | <.03     | <.005<br><.005 | 26      | <,01                                     | 0.811      | <.005      | <.005        | <.03       | <.01       |
|                                         | 2001                   | 003            |                |                | -,00         | 0.103          |                |              | 45.5         | -,001          |                | -,-04           | ~.002          | 0.01               | 3    | v.v.           | <b>LL</b> .L   | w.21         | 0.01A          |                   | -,000  | ~,                                       | < 01       | 23               | <.03     | vub            | A.Q.    | <.01                                     | 1.154      | <.005      | ~.003        | <.03       | 0.01       |

# Appendix D

Rose Creek Tailings Facility Groundwater Quality Data, 2001 to 2002

| Rose Creek Tailings Facility Groundwater Quality, Comparison of Select Groundwater Quality Parameters from 2001 to 2002 |
|-------------------------------------------------------------------------------------------------------------------------|
|-------------------------------------------------------------------------------------------------------------------------|

|                      | Upgradient |         | Origi   | nal Impound | lment   |         |         |         |         | Seco    | nd Impound | ment    |         |         |         |
|----------------------|------------|---------|---------|-------------|---------|---------|---------|---------|---------|---------|------------|---------|---------|---------|---------|
| MonitorName          | TH86-26 /  | P01-10A | P01-10B | P01-08A     | P01-08B | P01-08C | P01-09A | P01-09B | P01-09C | P01-09D | P01-07A    | P01-07B | P01-07C | P01-07D | P01-07E |
| Depth of Monitor (m) | TH86-17    | 15.2    | 21      | 15.5        | 25.6    | 29.7    | 11.7    | 16,5    | 22.1    | 28.4    | 18         | 23.5    | 27.8    | 34.2    | 40.4    |
| FALL 2001: pH        | 7.67       | 8.52    | 8.06    | 7.66        | 7.17    | 6.34    | 3.635   | 3,74    | 6.15    | 4.47    | 9.13       | 9.78    | 7.59    | 7.21    | 7.09    |
| Sulphate             | 16         | 298     | 94      | 206         | 344     | 482     | 20300   | 711     | 623     | 1180    | 349        | 360     | 376     | 433     | 580     |
| Zinc                 | <0.005     | 0.284   | 0.009   | 0.024       | 0,686   | 0.73    | 640     | 12.4    | 13,4    | 43.7    | <0,005     | < 0.005 | 0.006   | 0.011   | 0.017   |
| SPRING 2002: pH      | 7.87       | 9,03    | 7.83    | -           | -       | -       | 3.39    | 4,94    | 6.00    | 5.46    | 8.32       | 7.75    | 7.71    | 7.85    | 6.7     |
| Sulphate             | 20         | 402     | 116     | -           | -       | -       | 9580    | 757     | 440     | 821     | 756        | 835     | 346     | 686     | 672     |
| Zinc                 | <0.005     | <0.03   | <0.01   | •           | -       | -       | 3880    | 33,7    | 27      | 59,5    | <0.03      | <0.03   | <0.01   | <0.01   | 0/2     |
| FALL 2002; pH        | 8,05       | 8.20    | 7.85    | 8.05        | 6.07    | 6,91    | 3.34    | 5.27    | 4.05    | 4.50    | 9.02       | 7.91    | 7.47    | 7,15    | 7,25    |
| Sulphat              | 12         | 1030    | 97      | 258         | 666     | 409     | 56200   | 1110    | 621     | 950     | 590        | 519     | 402     | 766     | 818     |
| Zinc                 | 0.01       | 0.05    | <0.005  | 0.02        | 0.6     | 0.04    | 4070    | 45.1    | 34.4    | 26,1    | 0.11       | 0.05    | <0.01   | <0.01   | 0.26    |

|                      |      | Int   | ermediate Ir | npoundmen | t       |         |        |         |         | Int   | ermediate D | am    |         |       |       |
|----------------------|------|-------|--------------|-----------|---------|---------|--------|---------|---------|-------|-------------|-------|---------|-------|-------|
| MonitorName          | X21A | X21B  | X21C         | P01-06    | P01-05A | P01-05B | P01-03 | P01-04A | P01-04B | X25A  | X25B        | X24A  | X24B    | X24C  | X24D  |
| Depth of Monitor (m) | 8.5  | 14.7  | 29.4         | 10.7      | 10.5    | 16.4    | 9,3    | 34      | 53.4    | 9     | 19.2        | 6.5   | <u></u> | 16.5  | 28.3  |
| FALL 2001: pH        | 5.41 | 4.81  | 8.2          | 6.02      | 7.32    | 7.22    | 6.98   | 7,77    | 8,11    | 8.16  | 8.22        | 8.15  |         | 8.1   | 8.12  |
| Sulphate             | 8900 | 149   | 9            | 2610      | 1210    | 780     | 769    | 331     | 30      | 298   | 334         | 579   | -       | 764   | 1020  |
| Zinc                 | 370  | 0.828 | 0.006        | 1.02      | 0,145   | 0.074   | 0.009  | <0,005  | <0.005  | 0.005 | <0.005      | 0.005 |         | 0.009 | 0.028 |
| SPRING 2002: pH      | 5.75 | 7.41  | 8,13         | 6,10      | 7.51    | 7.78    | 7,21   | 7.66    | 7.92    | 8.10  | 7.88        | 7.54  | 7.51    | 7.25  | 7.29  |
| Sulphate             | 2070 | 434   | 10           | 1110      | 1130    | 600     | 1090   | 377     | 46      | 312   | 333         | 750   | 780     | 1140  | 1060  |
| Zinc                 | 2.23 | 0.09  | 0,015        | 1.88      | <0.03   | <0.03   | <0.03  | <0.01   | <0.05   | <0.01 | <0.01       | <0.03 | <0.03   | <0.03 | 0.03  |
| FALL 2002: pH        | 5,5  | 7.08  | 8.19         | 5.83      | 7,45    | 7.82    | 6.92   | 7.73    | 7,49    | 7.90  | 8.05        | 7.59  | 7,18    | 7.57  | 7.76  |
| Sulphat              | 3850 | 576   | 7            | 1850      | 1040    | 716     | 1260   | 338     | 44      | 292   | 341         | 39    | 542     | 1030  | 1150  |
| Zinc                 | 6.72 | 0.09  | <0.005       | 2.58      | <0.03   | 0.01    | <0.03  | 0,09    | <0.01   | <0.01 | <0.01       | <0.01 | <0.01   | <0.03 | 0.03  |

|                      |         |         |         |         | Downgradi | ent of Polish | ing Pond |        |        |         |        |
|----------------------|---------|---------|---------|---------|-----------|---------------|----------|--------|--------|---------|--------|
| MonitorName          | P01-01A | P01-01B | P01-02A | P01-02B | X18A      | X18B          | X16A     | X16B   | X17A   | X17B    | P01-11 |
| Depth of Monitor (m) | 21.4    | 35.3    | 14,1    | 28.4    | 10.6      | 28.7          | 6        | 34     | 6.2    | 25      | 25     |
| FALL 2001: pH        | 7.83    | 7.81    | 7.84    | 7.99    | 7.67      | 7,83          | 8.25     | 8,00   | 8.26   | 8.25    | · ·    |
| Sulphat              | 480     | 289     | 156     | 119     | 392       | 438           | 26       | 33     | 31     | 35      | -      |
| Zinc                 | <0.005  | 0,006   | <0.005  | <0.005  | 0.016     | 0,008         | 0.006    | 0.018  | 0.022  | < 0.005 | -      |
| SPRING 2002: pH      | 7.75    | 7.77    | 8.09    | 8.17    | 7.65      | 7.67          | 8.12     | 8.19   | 7.97   | 7,67    | 7.91   |
| Sulphat              | 570     | 402     | 158     | 128     | 553       | 470           | 26       | 28     | 46     | 54      | 573    |
| Zinc                 | <0.01   | <0.01   | <0.005  | <0.005  | <0.01     | <0.01         | 0.005    | <0.005 | <0.005 | <0.005  | <0.01  |
| FALL 2002: pH        | 7.99    | 8.08    | 8,10    | 8.17    | 7,79      | 7.96          | 8,13     | 8.14   | 8.13   | 8,11    | 7.96   |
| Sulphat              | 549     | 399     | 1430    | 116     | 449       | 550           | 36       | 25     | 36     | 39      | 716    |
| Zinc                 | <0.01   | <0.01   | <0.005  | <0.005  | <0.01     | <0,01         | <0.005   | <0.005 | <0.005 | <0.005  | 0.05   |

Notes: Results are expressed as milligrams per litre except where noted. < indicates less than the detection limit indicated. Notes:

| -                      | Upgradient |           | Ori       | ginal Impound | ment      |           |           |           |           | Sei                      | cond Impound    | meni            |           |           |           |
|------------------------|------------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|--------------------------|-----------------|-----------------|-----------|-----------|-----------|
| Sample ID              | TH86-26    | A1-2      | A1-1      | A2-1          | AR6-B*    | AR6-A     | A3-2*     | A3-1      | AR11-B    | AR11-A                   | A4-3            | A4-2            | A4-1*     | AR5-B     | AR5-A     |
| MonitorName            | TH86-26    | P01-10A   | P01-10B   | P01-08A       | P01-08B   | P01-08C   | P01-09A   | P01-09B   | P01-09C   | P01-09D                  | P01-07A         | P01-07B         | P01-07C   |           |           |
| MonitorID              | 86261      | 21101     | 21102     | 21081         | 21082     | 21083     | 21091     | 21092     | 21093     | 21094                    |                 |                 |           | P01-07D   | P01-07E   |
| Depth of Monitor (m)   |            | 15.2      | 21        | 15.5          | 25.6      | 29.7      | 11.7      | 16.5      | 21093     | 21094                    | 21071           | 21072           | 21073     | 21074     | 21075     |
| Date Sampled           | 9/10/2001  | 9/10/2001 | 9/11/2001 | 9/11/2001     | 9/11/2001 | 9/11/2001 | 9/11/2001 | 9/11/2001 | 9/11/2001 | <u>28.4</u><br>9/11/2001 | 18              | 23.5            | 27.8      | 34.2      | 40.4      |
| Field Chemistry        |            |           |           | 21110001      | 2001      | 21112001  | /////2001 | 711/2001  | 9/11/2001 | 9/11/2001                | 9/11/2001       | 9/11/2001       | 9/11/2001 | 9/10/2001 | 9/10/2001 |
| Field pH               | 7.6        | 8         | 7.6       | 7,3           | 6.9       | 6.7       | 7.1       | 6,4       | 6.9       | 6                        |                 |                 |           |           |           |
| Field Conductivity     | 214        | 1097      | 643       | 660           | 935       | 972       | 4710      | 1220      | 1097      | 1640                     | 9.5             | 9.7             | 7.6       | 6,9       | 6.9       |
| Temperature degrees C  | 3.7        | 4         | 3.8       | 5,4           | 2.2       | 2.6       | 3,7       | 3,5       | 3.5       | 3.5                      | 3.6             | 1508            | 992       | 1013      | 1013      |
| Physical Tests         |            |           |           |               |           | 2.0       | 3.7       | <u></u>   | 3.5       | 3.3                      | 3.0             | 4               | 3.2       | 4.1       | 4.1       |
| Total Dissolved Solids | 118        | 661       | 432       | 427           | 637       | 770       | 33850     | 1080      | 922       | 1760                     | 7/0             |                 |           |           |           |
| Hardness CaCO3         | 79         | 52.3      | 249       | 150           | 382       | 427       | 3300      | 554       | 537       | 691                      | 760             | 968             | 768.5     | 778       | 960       |
| pH                     | 7.67       | 8.52      | 8.06      | 7,66          | 7.17      | 6.34      | 3.635     | 3,74      | 6.15      | 4.47                     |                 | 13.6            | 403.5     | 552       | 560       |
| Dissolved Anions       |            |           |           |               | ·····     | 0.54      | 2,022     | 3.14      | 0,15      | 4,47                     | 9.13            | 9,78            | 7,585     | 7,21      | 7.09      |
| Alkalinity-Total CaCO3 | 95         | 225       | 286       | 129           | 135.5     | 37        | 12.5      | 7         | 19        | 5                        |                 |                 | L         |           |           |
| Sulphate SO4           | 16         | 298       | 94        | 206           | 344       | 482       | 20300     | 711       | 623       | 1180                     | 237             | 415             | 223       | 159       | 110       |
| Total Cyanide CN       | < 0.005    | 0.026     | 0.015     | 2.39          | 0.577     | -0.005    | 0.82      | 0.007     | <0.005    | 0.084                    | 0.99            | 360             | 376       | 433       | 580       |
| Dissolved Metals       |            |           |           |               | 0.017     | -0.002    | 0.02      | 0,007     | ~0.003    | 0.084                    | 0.99            | 3.16            | 0.1005    | <0.005    | <0.005    |
| Aluminum D-Al          | <0.005     | 0.1       | 0.015     | 0.014         | 0.012     | 0.07      | < 0.3     | 0.05      | 0.11      | 0.31                     |                 |                 |           |           |           |
| Antimony D-Sb          | 0.0016     | 0.053     | 0.0093    | 0.07          | 0.0069    | 0.0012    | <0.05     | 0.004     | 0.001     | 0.002                    | 0.05            | 0.11            | <0.01     | <0.01     | <0.01     |
| Arsenic D-As           | <0.0005    | < 0.003   | 0.01      | 0.0029        | 0.002     | 0.0013    | <0.03     | <0.004    | <0.001    | <0.002                   | 0.054           | 0.097           | 0,005     | 0.004     | 100.0     |
| Barium D-Ba            | 0.05       | 0.11      | 0,25      | <0,02         | <0.02     | 0.0013    | <0.4      | 0.02      | 0.06      | 0.04                     | 0.009           | 0.008           | 0.014     | 0.002     | < 0.001   |
| Beryllium D-Be         | <0.001     | <0.005    | <0.001    | <0.001        | <0.001    | <0.001    | <0.05     | <0.02     | <0.002    |                          | <0.02           | 0.02            | 0.06      | 0.07      | 0.02      |
| Boron D-B              | <0.1       | <0,1      | <0.1      | <0.1          | <0.1      | <0.1      | <2        | <0.002    | <0.002    | <0,002<br><0,1           | <0.002          | <0.005          | <0.002    | < 0.002   | <0.002    |
| Cadmium D-Cd           | <0.00005   | 0.0012    | 0.00006   | <0.00005      | <0.00005  | 0.045     | <0.003    | 0.0095    | 0.0081    |                          | <0.1            | <0.1            | <0.1      | <0.1      | <0.1      |
| Calcium D-Ca           | 24.1       | 12.6      | 80.4      | 49,2          | 116       | 124       | 387,5     | 165       | 162       | 0.0135                   | <0.0001         | <0.0003         | <0.0001   | 0.0033    | 0.0043    |
| Chromium D-Cr          | < 0.001    | <0.005    | <0.002    | <0.002        | <0.001    | <0.001    | <0.05     | <0.002    | <0.002    | <0.002                   | 4,5             | 3.5             | 117       | 156       | 164       |
| Cobalt D-Co            | < 0.0003   | <0.002    | 0,0016    | 0.0005        | 0,0164    | 0.136     | <0.03     | 0.309     | 0.117     |                          | <0.002          | <0.005          | <0.002    | <0.002    | <0.002    |
| Copper D-Cu            | <0.001     | 0.018     | 0 001     | 0.002         | 0.001     | 0.005     | <0.02     | <0.002    | 0.008     | 0.383                    | 0.0034          | 0.01            | 0,0056    | 0.0174    | 0.0659    |
| Iron D-Fe              | 0,5        | 0.23      | 4.19      | 0.22          | 24.65     | 35        | 10850     | 55.6      | 49.4      | 252                      | 0.002           | <0.005          | <0.002    | <0.002    | <0.002    |
| Lead D-Pb              | <0.0005    | 0.047     | 0.0016    | 0.01          | 0.00645   | <0.0005   | 0.35      | 0.016     | 0.002     | 0.005                    | 0.04            | 0,18            | 12.3      | 2.26      | 0.36      |
| Lithium D-Li           | <0.005     | < 0.03    | <0.005    | 0.018         | 0.016     | 0.024     | 0.4       | 0.016     | 0.04      | 0,005                    | <0.01           | 0.286           | 0.007     | <0.001    | <0.001    |
| Magnesium D-Mg         | 4.5        | 5.1       | 11.8      | 6.6           | 22.35     | 28.4      | 565.5     | 34.7      | 31.9      | 48.9                     | <u></u> L1      | <0.03           | -0.01     | <0.01     | 0.02      |
| Manganese D-Mn         | 0.0[47     | 0.094     | 9.67      | 0.397         | 7.025     | 28.8      | 60.45     | 53.5      | 33.3      | 50,3                     | 0.0277          | 1.2             | 26.9      | 39,3      | 36.5      |
| Mercury D-Hg           | <0.00005   | <0.00005  | <0.00005  | < 0.00005     | 0.00007   | < 0.00005 | <0.00005  | <0.00005  | <0.00005  | <0.00005                 | <0.00005        |                 | 22,55     | 24.8      | 34.2      |
| Molybdenum D-Mo        | <0.001     | 0,069     | 0.013     | 0.051         | 0.003     | <0.001    | <0.05     | <0.000    | <0.0003   | <0.0005                  | 0.147           | <0.00005        | <0.00005  | <0.00005  | <0.00005  |
| Nickel D-Ni            | <0.001     | <0.005    | 0.001     | 0.002         | 0.018     | 0,106     | <0.05     | 0.369     | 0.18      | 0,328                    | <0.002          | 0.142           | 0,002     | <0.002    | <0.002    |
| Potassium D-K          | <2         | 9         | 3         | 8             | 4.5       | 3         | 75        | 4         | 4         | 6                        | <0.002          | <0.005          | 0.0055    | 0.029     | 0.082     |
| Selenium D-Se          | <0,001     | < 0.005   | <0.001    | 0.003         | <0.001    | <0.001    | <0.05     | <0.002    | <0.002    | <0.002                   | <0.002          | <0.005          | 3.5       | 4         | 4         |
| Silver D-Ag            | <0.0005    | < 0.003   | <0.0005   | <0.0005       | <0.0005   | <0.0005   | <0.001    | <0.002    | <0.002    | <0.002                   | <0.002          | <0.005          |           | <0.002    | <0.002    |
| Sodium D-Na            | <2         | 305       | 54        | 90            | 31        | 15        | 152.5     | 19        | 17        |                          | 267             | <0.003<br>363   | <0.001    | <0.001    | <0.001    |
| Thallium D-Ti          | <0.0002    | <0.001    | <0.0002   | <0.0002       | <0.0002   | <0.0002   | <0.01     | < 0.0004  | <0.0004   | <0.0004                  | <0.0004         |                 | 40.5      | 30        | 30        |
| Tin D-Sn               | <0.0005    | <0.003    | <0.0005   | <0,0005       | <0.0002   | <0.0005   | <0.01     | <0.004    | <0.004    | <0.004                   | <0.004          | <0.001          | <0.0004   | <0.0004   | <0,0004   |
| Titanium D-Ti          | <0.01      | <0.01     | <0.01     | <0.01         | <0.01     | <0.01     | <0.03     | <0.01     | <0.01     | <0.01                    |                 | <0.003          | <0.001    | <0.001    | <0.001    |
| Uranium D-U            | 0.0012     | 0.002     | 0.0153    | 0.0005        | 0.003     | 0.0012    | <0.01     | <0.001    | <0.0004   | <0.001                   | <0.01           | <0.01           | <0.01     | <0.01     | <0.01     |
| Vanadium D-V           | <0.03      | < 0.03    | <0.03     | <0.03         | <0.03     | <0.03     | <0.6      | 0.03      | 0.03      | <0.004                   | 0.0014          | 0.003           | 0.00515   | 0.0032    | 0.0013    |
| Zinc D-Zn              | < 0.005    | 0.284     | 0.009     | 0.024         | 0.686     | 0.73      | 640       | 12.4      | 13.4      | <u>&lt;0.05</u><br>43.7  | <0.03<br><0.005 | <0.03<br><0.005 | <0.03     | 0.03      | <0.04     |

Notes: Results are expressed as milligrams per litre except where noted. < indicates less than the detection limit indicated. • indicates average value of two samples (field replicates)

| () | $( \dots )$ |  | () | ( | () | (] | $\left( \begin{array}{c} \\ \end{array} \right)$ |  | $\left( \begin{array}{c} \end{array} \right)$ |  | () | () |  |
|----|-------------|--|----|---|----|----|--------------------------------------------------|--|-----------------------------------------------|--|----|----|--|
|    |             |  |    |   |    |    |                                                  |  |                                               |  |    |    |  |

|                        |          |               | Intermediat   | e Impoundme | n.        |                    |           |                |           | Intermed | iate Dam |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                  |
|------------------------|----------|---------------|---------------|-------------|-----------|--------------------|-----------|----------------|-----------|----------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------|
| Sample ID              | P96-5A*  | P96-5B        | P96-5C        | A6-1A       | A5-2      | A5-1               | A9-1      | AR3-B          | AR3-A     | P96-3A   | P96-3B   | P96-4A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | P96-4C   | P96-4D           |
| MonitorName            | P96-5A   | P96-5B        | P96-5C        | P01-06A     | P01-05A   | P01-05B            | P01-03    | P01-04A        | P01-04B   | P96-3A   | P96-3B   | P96-4A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | P96-4C   | P96-4D           |
| MonitorID              | 96051    | 96052         | 96053         | 21061       | 21051     | 21052              | 21031     | 21041          | 21042     | 96031    | 96032    | 96041                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 96043    | 96044            |
| Depth of Monitor (m)   | 8.5      | 14.7          | 29.4          | 10.7        | 10.5      | 16,4               | 9.3       | 34             | 53,4      | 9        | 19,2     | 6.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 16.5     |                  |
| Date Sampled           | 9/6/2001 | 9/6/2001      | 9/6/2001      | 9/10/2001   | 9/10/2001 | 9/10/2001          | 9/10/2001 | 9/10/2001      | 9/10/2001 | 9/5/2010 | 9/5/2001 | 9/6/2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 9/6/2001 | 28.3<br>9/6/2001 |
| Field Chemistry        |          |               |               | 1           |           |                    | 2776.0001 | 271012001      | 5/10/2001 | 7/3/2010 | 9/3/2001 | 9/0/2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 9/6/2001 | 9/6/2001         |
| Field pH               | 6,1      | 7.3           | 8.3           | 7.1         | 8         | 7,8                | 7,5       | 7,8            | 7.5       | 7,7      | 7.9      | 7.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 7.3      | 7.0              |
| Field Conductivity     | 3204     | 2106          | 3316          | 3189        | 1948      | 1475               | 1573      | 1055           | 1045      | 985      | 1050     | 1324                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1595     | 7,6              |
| Temperature degrees C  | 3.9      | 2.8           | 2.3           | 3,3         | 3.5       | 3.1                | 3,5       | 3.8            | 4         | 3.7      | 3.2      | 3.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3        |                  |
| Physical Tests         | *******  |               | 1             |             |           |                    |           | 3,0            |           | 3.1      | 3.2      | 3.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | د        | 3                |
| Total Dissolved Solids | 12650    | 2330          | 202           | 4220        | 1630      | 1240               | 1380      | 763            | 602       | 684      | 746      | 1070                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1370     | 1000             |
| Hardness CaCO3         | 5855     | 933           | 171           | 1990        | 611       | 582                | 993       | 575            | 478       | 466      | 501      | 683                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 936      | 1800             |
| рH                     | 5,41     | 4.81          | 8,2           | 6.02        | 7.32      | 7.22               | 6.98      | 7.77           | 8.11      | 8.16     | 8.22     | and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s |          | 1100             |
| Dissolved Anions       |          |               |               | t           | 1         |                    |           | ····           | 0.11      | 0.10     | 0.22     | 8.15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 8.1      | 8.12             |
| Alkalinity-Total CaCO3 | 22       | 42            | 191           | 106         | 37        | 239                | 322       | 311            | 623       | 271      | 299      | 284                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |                  |
| Suiphate SO4           | 8900     | 149           | 9             | 2610        | 1210      | 780                | 769       | 331            | 30        | 271      | 334      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 333      | 358              |
| Total Cyanide CN       | 0.7      | 0.007         | <0.005        | 0.072       | 1.51      | 0.234              | 0.009     | <0.005         | <0.005    | 0,005    | 0.019    | 579                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 764      | 1020             |
| Dissolved Metals       |          |               | 1             |             | ····      | 0.404              | 0.009     | ~0.003         | ~0.003    | 0.003    | 0.019    | <0.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.032    | <0,005           |
| Aluminum D-Al          | 0.06     | <0.01         | 0.014         | 0.04        | <0.03     | <0.01              | <0.03     | <0.01          | <0.01     |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                  |
| Antimony D-Sb          | 0.005    | 0.001         | 0.0029        | 0.005       | 0.038     | 0.005              | <0.003    | 0.001          | 0.004     | <0.01    | <0.01    | <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <0.03    | <0.03            |
| Arsenic D-As           | 0.014    | 0.003         | 0.0217        | 0.013       | <0.003    | 0.005              | <0.003    | 0,001          | 0.004     | 0,009    | 0.001    | 0.003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.004    | <0.003           |
| Barium D-Ba            | <0.1     | 0.02          | 0.0217        | <0.013      | <0.003    | -0.02              | 0.003     |                |           | <0.001   | <0.001   | <0.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <0.003   | <0.003           |
| Beryllium D-Be         | <0.005   | <0.002        | <0.001        | <0.002      | <0.02     | <0.02              | <0.002    | 0.03           | 0.49      | 0.04     | 0.03     | 0.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <0.02    | 0.02             |
| Boron D-B              | <0.5     | <0.1          | <0.001        | <0.005      | <0.003    | <0.002             |           |                | <0.002    | <0.002   | <0.002   | <0.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <0.005   | <0.005           |
| Cadmium D-Cd           | 0.0258   | <0.0001       | <0.00005      | <0.0003     | <0.0003   | <0.0001            | <0,1      | <0.1           | <0.1      | <0.1     | <0.1     | <0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <0,1     | <0.1             |
| Calcium D-Ca           | 426.5    | 172           | 54            | 335         | 170       | 175                | 297       | <0.0001        | <0.0001   | <0.0001  | <0.0001  | 0.0005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.0005   | 0.0023           |
| Chromium D-Cr          | <0.005   | <0.002        | <0.001        | <0.005      | <0.005    | <0.002             | <0.005    | 181            | 117       | 134      | 157      | 209                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 285      | 339              |
| Cobalt D-Co            | 0.106    | 0.0419        | <0.0003       | 0.00        | 0.003     | 0.002              | 0.029     |                | <0.002    | <0.002   | <0.002   | <0.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <0.005   | <0.005           |
| Copper D-Cu            | <0.005   | <0.002        | <0.001        | <0.005      | <0.005    | <0.002             | <0.029    | <0.0006        | 0.001     | 0.0056   | <0.0006  | 0.0147                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.029    | 0.014            |
| Iron D-Fe              | 879      | 243           | 0.5           | 676         | 0.57      | 4.09               | 0.33      |                | <0.002    | <0.002   | <0.002   | <0.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <0.005   | <0.005           |
| Lead D-Pb              | 0.164    | <0.001        | 0.0023        | 0.005       | 0.045     | 0.032              | <0.003    | 3.35           | 0.86      | 0.05     | 0,5      | < 0.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.04     | < 0.03           |
| Lithium D-Li           | 0.17     | <0.01         | <0.005        | <0.003      | 0.045     | <0.032             | <0.003    | <0.001<br>0.01 | <0.001    | <0.001   | <0.001   | <0.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <0.003   | <0.003           |
| Magnesium D-Mg         | 1160     | 123           | 8,8           | 281         | 45,2      | 35.3               | 61.3      |                | 0.16      | <0.01    | <0.01    | <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <0.03    | <0,03            |
| Manganese D-Mn         | 338      | 23.6          | 0.261         | 104         | 0,494     | 19.7               | 22.1      | 29.6<br>0.464  | 45.5      | 31,9     | 26,6     | 39.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 54.5     | 61.4             |
| Mercury D-Hg           | <0.00005 | <0.00005      | <0.00005      | <0.00005    | <0.00005  |                    |           |                | 0.232     | 6,86     | 0,195    | 15.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 24,9     | 24.9             |
| Molybdenum D-Mo        | <0.00003 | <0.000        | 0.000         | <0.0005     | <0.0005   | <0.00005<br><0.002 | <0.00005  | <0.00005       | <0.00005  | <0.00005 | <0.00005 | <0.00005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <0.00005 | <0.00005         |
| Nickel D-Ni            | 0.388    | 0.014         | <0.004        | 0.06        | 0.005     | <0.002             | <0.005    | <0.002         | 0.009     | <0.002   | <0.002   | <0.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <0.005   | <0.005           |
| Potassium D-K          | 24       | 5             | <2            | 17          | 14        | 4                  | 0.049     | <0.002         | 0.006     | 0.004    | <0.002   | 0.024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.052    | 0.098            |
| Selenium D-Se          | <0.005   | <0.002        | <0.001        | <0.005      | <0.005    |                    |           | 4              | 3         | 4        | 3        | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5        | 6                |
| Silver D-Ag            | <0.000   | <0.0002       | <0.0002       | <0.005      | <0.003    | <0.002             | < 0.005   | <0.002         | <0.002    | < 0.002  | <0.002   | <0.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <0.005   | <0.005           |
| Sodium D-Na            | 32.5     | <0.0004<br>56 | <0,00002<br>3 | 39          | <0,003    | <0.001             | <0.006    | <0.001         | <0.001    | <0.00004 | <0.00004 | <0.00004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | < 0.0001 | <0.0001          |
| Thallium D-Tl          | <0.001   | <0.0004       | <0.0002       | 39          | <0.001    | 47                 | 39        | 44             | 69        | 26       | 53       | 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 33       | 43               |
| Tin D-Sn               | <0.001   | <0.0004       | <0.0002       | <0.001      |           | <0.0004            | <0.001    | <0.0004        | <0.0004   | <0,0004  | <0,0004  | <0.0004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <0.001   | 100.0>           |
| Titanium D-Ti          | <0.003   | <0.01         | <0.0005       |             | <0.003    | <0.001             | <0.003    | <0.001         | <0.001    | <0.001   | <0.001   | <0.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <0,003   | <0.003           |
| Uranium D-U            | <0.00    |               |               | <0.01       | <0.01     | <0.01              | <0.01     | <0.01          | <0.01     | <0.01    | <0.01    | <0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <0.01    | <0.01            |
|                        |          | 0.0029        | <0.0002       | 0.004       | <0.001    | 0.0044             | 0.004     | 0.0024         | 0,0073    | 0.0096   | 0.0052   | 0.0057                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.004    | 0.004            |
|                        | <0.2     | <0.03         | <0.03         | 0.06        | <0.03     | <0.03              | 0.03      | <0.03          | <0.03     | <0.03    | <0.03    | <0.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <0.03    | <0.03            |
| Zinc D-Zn              | 370      | 0,828         | 0.006         | 1.02        | 0,145     | 0.074              | 0.009     | <0,005         | < 0.005   | 0.005    | < 0.005  | 0,005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.009    | 0.028            |

Notes: Notes: Results are expressed as milligrams per litre except where noted.

< indicates less than the detection limit indicated.

indicates average value of two samples (field replicates)

|                        |           |           |           | Do        | wngradient o | Polishing Po | nd       |              |          |                |
|------------------------|-----------|-----------|-----------|-----------|--------------|--------------|----------|--------------|----------|----------------|
| Sample ID              | AR7-B     | AR7-A     | AR1-B     | AR1-A     | X18A         | X18B         | X16A     | X16B         | X17A     | X17B           |
| MonitorName            | P01-01A   | P01-01B   | P01-02A   | P01-02B   | X18A         | X18B         | X16A     | X16B         | X17A     | X17B           |
| MonitorID              | 21011     | 21012     | 21021     | 21022     | 81031        | 81032        | 81011    | 81012        | 81021    | 81022          |
| Depth of Monitor (m)   | 21,4      | 35,3      | 14.1      | 28,4      | 10.6         | 28.7         | 6        | 34           | 6.2      | 25             |
| Date Sampled           | 9/10/2001 | 9/10/2001 | 9/10/2001 | 9/10/2001 | 9/5/2001     | 9/5/2001     | 9/5/2001 | 9/5/2001     | 9/5/2010 | 9/5/2010       |
| Field Chemistry        |           |           |           | 1         |              |              |          | 1 210/2021   | 210.2010 | 21212010       |
| Field pH               | 8         | 7.8       | 7.9       | 8         | 7.7          | 7.8          | 7.8      | 8            | 8        | 7,9            |
| Field Conductivity     | 1140      | 981       | 591       | 54        | 1104         | 1131         | 395      | 320          | 388      | 436            |
| Temperature degrees C  | 2.5       | 2.7       | 4         | 4.2       | 3.8          | 4,1          | 4.3      | 6.6          | 4,3      | 4.1            |
| Physical Tests         |           |           |           |           |              |              |          | 0.0          | 4.5      | 4.1            |
| Total Dissolved Solids | 872       | 708       | 402       | 346       | 797          | 870          | 250      | 222          | 233      | 263            |
| Hardness CaCO3         | 741       | 530       | 312       | 275       | 708          | 669          | 264      | 198          | 227      | 240            |
| pH                     | 7.83      | 7.81      | 7,84      | 7.99      | 7.67         | 7,83         | 8.25     | 8            | 8.26     | 8,25           |
| Dissolved Anions       |           |           |           | *.55      | 1.07         |              | 0.25     | °            | a.20     | 8,25           |
| Alkalinity-Total CaCO3 | 217       | 249       | 201       | 206       | 222          | 225          | 211      | 160          | 203      |                |
| Sulphate SO4           | 480       | 289       | 156       | 119       | 392          | 438          | 26       | 33           | 203      | 229            |
| Total Cyanide CN       | <0.005    | <0.005    | <0.005    | <0.005    | 0.006        | 0,006        | <0.005   | <0.005       | <0.005   | 35             |
| Dissolved Metals       |           |           | -0,005    | -0,005    | 0.000        | 0.000        | ~0.005   |              | <0.005   | <0,005         |
| Aluminum D-Al          | <0.01     | <0.01     | <0.005    | 0.012     | 0.01         | 0.02         | 0.02     | 0.011        | 0.714    | +0.000         |
| Antimony D-Sb          | 0,001     | 0,035     | 0,0043    | 0.0081    | 0.007        | 0.002        | 0.02     | 0.0011       | <0,0005  | <0.005         |
| Arsenic D-As           | <0.001    | 0,026     | 0.0008    | 0.0027    | <0.001       | 0.005        | <0.007   | <0.0007      | 0.0013   | <0.0005        |
| Barium D-Ba            | 0,12      | 0,16      | 0.06      | 0.05      | 0.15         | 0.2          | 0.16     | 0.11         |          | <0.0005        |
| Beryllium D-Be         | <0.002    | <0.002    | <0.001    | < 0.001   | <0.002       | <0.002       | <0.002   | <0.001       | 0.2      | 0.2            |
| Boron D-B              | <0,1      | <0,1      | <0.1      | <0.1      | <0.002       | <0.002       | <0.002   | <0.001       | <0.001   | <0.001         |
| Cadmium D-Cd           | 0.0001    | 0.0001    | 0.00007   | <0.00005  | 0.0002       | <0.0001      | <0.0001  | 0.0001       | 0.00017  | <0.1           |
| Calcium D-Ca           | 211       | 158       | 86.3      | 64.8      | 202          | 188          | 70,5     | 57.6         | 62,2     | <0.00005       |
| Chromium D-Cr          | <0.002    | <0.002    | <0,001    | <0.001    | <0.002       | <0,002       | <0.002   | <0.001       | <0.001   | 66,2           |
| Cobalt D-Co            | <0.0006   | 0,0053    | 0.0014    | 0.0017    | <0.0002      | <0.0002      | <0.0002  | <0.0003      | 0.0015   | <0.001         |
| Copper D-Cu            | <0,002    | <0.002    | < 0.001   | <0.001    | <0.002       | <0,000       | <0.000   | <0.0003      | 0.0015   |                |
| Iron D-Fe              | <0.03     | 0.12      | < 0.03    | <0.03     | 0.06         | 2.51         | <0.002   | <0.03        | 0.008    | <0.001<br>0.64 |
| Lead D-Pb              | <0.001    | <0.001    | <0.0005   | <0.0005   | <0.001       | <0.001       | <0.03    | <0.0005      | 0,84     | 0.0006         |
| Lithium D-Li           | 0.01      | 0.01      | 0.006     | <0.005    | <0.01        | <0,01        | <0.01    | <0.0005      | <0.005   | 0.016          |
| Magnesium D-Mg         | 51.7      | 32,8      | 23.4      | 27.5      | 49.5         | 48.6         | 21.3     | 13.2         | 17.3     |                |
| Manganese D-Mn         | 0.0731    | 0,0744    | 0.692     | 0.215     | 2.3          | 0.453        | 0.0007   | 0.0046       | 0.19     | 18,1<br>0,209  |
| Mercury D-Hg           | <0.00005  | <0.00005  | <0.00005  | <0.00005  | <0.00005     | <0.00005     | <0.00005 | <0.00005     | <0.00005 | <0.00005       |
| Molybdenum D-Mo        | 0.003     | 0.125     | 0,002     | 0.002     | <0.000       | <0.000       | 0.000    | 0.002        | <0.0003  |                |
| Nickel D-Ni            | <0.002    | 0,037     | 0.013     | 0.023     | 0.009        | <0.002       | <0.002   | <0.002       | 0,002    | 0.001          |
| Potassium D-K          | 7         | 5         | 4         | 4         | 6            | 6            | <2       | <2           | <2       | 2              |
| Selenium D-Se          | <0.002    | 0,011     | 0.001     | <0.001    | <0.002       | <0.002       | <0.002   | 0.001        | <0.001   |                |
| Silver D-Ag            | <0.003    | <0.001    | <0.0005   | <0.0005   | <0.0004      | <0.0002      | <0.0002  | <0.0002      | <0.0001  | <0.001         |
| Sodium D-Na            | 32        | 28        | 23        | 22        | 19           | 27           | 2        | 2            | <0.00002 | <0.00002       |
| Thallium D-TI          | <0,0004   | <0.0004   | <0.0002   | <0.0002   | <0.0004      | <0.0004      | <0,0004  | 2<br><0.0002 | <0,0002  | <0.0002        |
| Tin D-Sn               | <0,001    | <0.001    | <0.0002   | <0,0002   | <0.0004      | <0.0004      | <0.004   | <0.0002      |          |                |
| Titanium D-Ti          | <0.01     | <0.01     | <0.00     | <0.01     | <0.001       | <0.001       | <0.01    | <0.0005      | <0.0005  | <0.0005        |
| Uranium D-U            | 0.0105    | 0.077     | 0.022     | 0.0465    | 0.0067       | 0.0043       | 0.0022   | 0.0015       | 0.0025   | <0.01          |
| Vanadium D-V           | <0.0103   | <0.03     | <0.022    | <0.03     | <0.03        | <0.0043      | <0.0022  | <0.03        |          | 0.0017         |
| Zinc D-Zn              | <0.005    | 0.006     | <0.005    | <0.005    | 0.016        | 0.008        | 0.006    |              | < 0.03   | <0.03          |
| Line 0-20              | ~U.U.U    | 0.000     | ~0.005    | ~0,005    | 0.010        | 0.008        | 0,000    | 0.018        | 0.022    | <0.005         |

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Notes: Notes: Results are expressed as milligrams per litre except where noted. < indicates less than the detection limit indicated.

indicates average value of two samples (field replicates)

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|                           | Upgradient | Original Im | poundment |           |           |           | 50        | ond Impoundr |           |           |           |           |
|---------------------------|------------|-------------|-----------|-----------|-----------|-----------|-----------|--------------|-----------|-----------|-----------|-----------|
| Sample IO                 | TH85-26    | P01-10A     | P01-10B   | P01-09A   | P01-09B   | P01-09C   | P01-09D   | P01-07A      | P01-07B   | P01-07C   | P01-07D   | P01-07E   |
| Lab Sample 10             | 48         | 67          | 66        | 63        | 64        | 61        | 62        | 57           | 56        | 69        | 60        | 58        |
| Depth of Monitor (m bgs)  |            | 15.2        | 21        | 11.7      | 16.5      | 22.1      | 28.4      | 18           | 23.5      | 27.8      | 34,2      | 40.4      |
| Date Sampled              | 6/12/2002  | 6/13/2002   | 6/13/2002 | 6/13/2002 | 6/13/2002 | 6/13/2002 | 6/13/2002 | 6/12/2002    | 6/12/2002 | 6/12/2002 | 6/12/2002 | 6/12/2002 |
|                           |            |             |           |           |           |           |           |              | 0,10,2002 | 0122002   | 0/12/2002 | 0/12/2002 |
| Physical Tests            |            |             |           |           |           |           |           |              |           |           |           |           |
| Conductivity (uS/cm)      | 233        | 1200        | 632       | 29900     | 1130      | 793       | 1270      | 1810         | 1890      | 896       | 1220      | 1240      |
| Total Dissolved Solids    | 147        | 854         | 471       | 72000     | 1150      | 699       | 1220      | 1290         | 1320      | 721       | 1050      | 1160      |
| Hardness CaCO3            | 119        | 60.7        | 271       | 3260      | 319       | 260       | 337       | 26.2         | 173       | 445       | 602       | 551       |
| pН                        | 7,87       | 9.03        | 7,83      | 3.39      | 4.94      | 6         | 5.46      | 8.32         | 7.75      | 7,71      | 7.85      | 6.7       |
|                           |            |             |           |           |           |           |           |              |           |           | 1.00      |           |
| Dissolved Anions          |            |             |           |           |           |           |           |              |           |           |           |           |
| Acidity (to pH 8.3) CaCO3 | 4          | <5          | 15        | 41200     | 403       | 160       | 401       | <1           | 10        | 23        | 10        | 35        |
| Alkalinity-Total CaCO3    | 100        | 244         | 273       | <1        | 7         | 18        | 10        | 269          | 321       | 196       | 150       | 136       |
| Chloride Ci               | 1.3        | 13.6        | 4.2       | <0.5      | 1.1       | 1         | 1.1       | 18           | 9.2       | 1.6       | 1.6       | 12        |
| Sulphate SO4              | 20         | 402         | 116       | 9560      | 757       | 440       | 821       | 756          | 835       | 346       | 686       | 672       |
|                           | 1          |             |           |           |           |           |           |              |           |           | 000       | 0.2       |
| Dissolved Metals          | (          |             |           |           |           |           |           |              |           | i i       |           |           |
| Aluminum O-Al             | <0.005     | 0.03        | <0.01     | <10       | <0.05     | <0.05     | <0.1      | 0.07         | <0.03     | <0.01     | 0.02      | 0.02      |
| Anlimony D-Sb             | 0.003      | 0.07        | 0.004     | <10       | <0.005    | <0.005    | <0.01     | 0.025        | 0.01      | 0.005     | 0.003     | 0.002     |
| Arsenic D-As              | <0.0005    | 0.005       | 0.008     | <10       | <0.005    | <0.005    | <0.01     | 0.005        | 0.006     | 0.016     | 0.003     | <0.001    |
| Barium D-Ba               | 0.08       | <0.02       | 0.22      | <0.5      | 0.02      | 0.03      | 0.02      | <0.02        | <0.02     | 0.08      | 0.05      | 0.02      |
| Beryllium D-Be            | <0.001     | <0,005      | <0.002    | <0.3      | <0.01     | <0.01     | <0.02     | <0.005       | <0.005    | <0.002    | <0.002    | <0.002    |
| Bismuth D-BI              | •          | -           | -         | <10       | -         |           |           | -            | -         |           |           |           |
| Boron D-B                 | <0.1       | <0.1        | <0.1      | <5        | <0.1      | <0,1      | <0.1      | <0.1         | <0.1      | <0.1      | <0.1      | <0.1      |
| Cadmium D-Cd              | <0.00005   | <0.0003     | <0.0001   | <0.5      | 0.0049    | 0.0018    | 0.003     | <0.0003      | <0.0003   | <0.0001   | 0.0002    | 0.0007    |
| Calcium D-Ca              | 36.7       | 5.4         | 87.9      | 474       | 92.5      | 73,4      | 86.1      | 6.9          | 30.3      | 134       | 176       | 197       |
| Chromium D-Cr             | <0.001     | <0.005      | <0.002    | <0.5      | <0.01     | <0.01     | <0.02     | <0.005       | <0.005    | <0.002    | <0.002    | <0.002    |
| Cobalt D-Co               | <0.0003    | 0.002       | 0.001     | <0.5      | 0.171     | 0,062     | 0.121     | 0.002        | 0.007     | 0.0062    | 0.0182    | 0,044     |
| Copper D-Cu               | <0.001     | <0.005      | <0.002    | <0.5      | <0.01     | <0.01     | <0.02     | <0.005       | <0.005    | 0.002     | <0.002    | <0.002    |
| Iron D-Fe                 | 0.66       | 0,14        | 4.5       | 22700     | 175       | 52.8      | 179       | < 0.03       | 0.14      | 12.7      | 7.69      | 2,34      |
| Lead D-Pb                 | <0.0005    | 0.099       | <0.001    | <3        | 0.007     | <0.005    | <0.01     | 0.007        | 0.027     | 0.006     | <0.001    | <0.001    |
| Lilhium D-L <del>i</del>  | <0.005     | <0.03       | <0.01     | <0.5      | <0.05     | <0.05     | <0,1      | <0.03        | < 0.03    | <0.01     | <0.01     | 0.01      |
| Magneslum D-Mg            | 6,7        | 11,4        | 12.5      | 505       | 21.4      | 18,7      | 28.4      | 2.2          | 23.6      | 27        | 39.2      | 41        |
| Manganese D-Mo            | 0.017      | 0.023       | 6.21      | 179       | 28.5      | 13.2      | 16.4      | 0.01         | 0.079     | 19.6      | 30.6      | 32.3      |
| Mercury D-Hg              | <0.00005   | <0.00005    | <0.00005  | <0.00005  | <0.00005  | <0.00005  | <0.00005  | <0.00005     | <0 00005  | <0.00005  | <0.00005  | <0.00005  |
| Molybdenum D-Mo           | <0.001     | 0.067       | 0.009     | <2        | <0.01     | <0.01     | <0.02     | 0,122        | 0 129     | <0.002    | <0.002    | <0.002    |
| Nickel D-Ni               | <0.001     | <0.005      | <0.002    | <3        | 0.24      | 0.09      | 0.12      | <0.005       | <0.005    | 0,005     | 0.009     | 0.045     |
| Phosphorus D-P            | -          |             | -         | <20       | •         |           | _         |              |           |           |           | 0.040     |
| Potassium D-K             | <2         | 9           | з         | <100      | 3         | 3         | 4         | 13           | 18        | 3         | 5         | d         |
| Selenium D-Se             | <0.001     | <0.005      | <0.002    | <10       | <0.01     | <0.01     | <0.02     | <0.005       | <0.005    | <0,002    | <0.002    | <0.002    |
| Silicon D-Si              |            | -           |           | <3        |           | -         |           |              |           |           |           |           |
| Silver D-Ag               | <0.00002   | <0.0001     | <0.00004  | <0.5      | <0.0002   | <0.0002   | <0,0004   | <0.0001      | <0.0001   | <0.00004  | <0.00004  | <0.00004  |
| Sodium D-Na               | 2          | 281         | 51        | <100      | 15        | 9         | 13        | 421          | 367       | 37        | 29        | 35        |
| Strontium D-Sr            | .          | .           | -         | 0.9       | -         | -         |           |              | -         |           | -         |           |
| Thallium D-Ti             | <0.0002    | <0.001      | <0.0004   | <10       | <0.002    | <0.002    | <0.004    | <0.001       | <0.001    | <0.0004   | <0.0004   | <0.0004   |
| Tin D-Sn                  | <0.0005    | <0.003      | <0.001    | <2        | <0.005    | <0.001    | <0.01     | <0.003       | <0.003    | <0.001    | <0.0004   | <0.0004   |
| Tilanium D-Ti             | <0.01      | <0.01       | <0.01     | <0.5      | <0.01     | <0.01     | <0.01     | <0.01        | <0.01     | <0.01     | <0.01     | <0.001    |
| Uranium D-U               | 0.0016     | 0.001       | 0,018     | <0.001    | <0.002    | <0.002    | <0.004    | 0.001        | 0.001     | 0.0047    | 0.0038    | 0.0018    |
| Vanadium D-V              | <0.03      | <0.03       | <0.03     | <2        | <0.03     | <0.03     | <0.03     | <0.03        | <0.03     | <0.03     | <0.03     | <0.03     |
| Zine D-Zn                 | <0.005     | <0.03       | <0.01     | 3880      | 33.7      | 27        | 59.5      | <0.03        | <0.03     | <0.03     | <0.03     | <0.03     |

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|                                          | _                |                    |                   |                   |                   |                               |                  |                 |                   |                |                           |                  |           |                    |                    |
|------------------------------------------|------------------|--------------------|-------------------|-------------------|-------------------|-------------------------------|------------------|-----------------|-------------------|----------------|---------------------------|------------------|-----------|--------------------|--------------------|
|                                          |                  |                    | 316               | Impoundment       |                   |                               |                  |                 |                   | -              | ntermediate uav           | F                |           |                    |                    |
| Sampte ID                                | X21A             | X21B               | X21C              | P01-06            | P01-05A           | P01-05B                       | P01-03           | P01-04A         | P01-04B           | X25A           | X25B                      |                  | X24B      | X24C               | X24D               |
| Lab Sample ID                            | 54               | 23                 | 51                | 5                 | 50                | 49                            | 4                | 47              | 45                | 44             | 8                         | 37               | 38        | 39                 | ł                  |
| Uepth of Monitor {m bgs}<br>Date Sampled | 8.5<br>6/12/2002 | 14.7<br>6/12/2002  | 29.4<br>6/12/2002 | 10,7<br>6/12/2002 | 10.5<br>6/10/2002 | 16.4<br>6/10/2002             | 9.3<br>6/12/2002 | 34<br>6/12/2002 | 53.4<br>6/12/2002 | 9<br>6/12/2002 | 19.2<br>6/12/2002         | 6.5<br>6/12/2002 | 6/12/2002 | 16.5<br>6/12/20002 | 28.3<br>6112/20112 |
| Physical Tests                           |                  |                    |                   |                   |                   |                               |                  |                 |                   |                |                           |                  |           |                    |                    |
| Conductivity (uS/cm)                     | 2770             | 1050               | 342               | 2270              | 1940              | 1550                          | 1950             | 1120            | 1100              | 956            | 1050                      | 1550             | 1600      | 2050               | 0110               |
| Total Dissolved Solids                   | 2820             | 793                | 200               | 2370              | 1260              | 1240                          | 1750             | 645             | 665               | 727            | 222                       | 1300             | 1190      | 1820               | 1980               |
| Hardness CaCO3                           | 1280             | 457                | 198               | 1180              | 651               | 790                           | 1150             | 297             | 482               | 504            | 513                       | 833              | 841       | 1230               | 1110               |
| Ha                                       | 5.75             | 7.41               | 8.13              | 6.1               | 7.51              | 7,78                          | 7.21             | 7.66            | 7,92              | 8.1            | 7.88                      | 7,54             | 7.51      | 7.25               | 7.29               |
| Dissolved Anions                         |                  |                    |                   |                   |                   |                               |                  |                 |                   |                |                           |                  |           |                    |                    |
| Acidity (to pH 8.3) CaCO3                | 207              | 44                 |                   | aar               | u                 | ç                             | ę                | ų               | c                 |                |                           | 1                | ;         |                    |                    |
| -                                        | 8                | : CB1              | 170               | 200               | 5 r               | 2 6                           | 3 52             | 2               | 2 6               | ۹ <u>ل</u>     | 7 6                       | 57               | 58        | 40                 | 98                 |
|                                          | 1 2              | 2.3                | 6                 | 96                | , F.              | 16                            | 4 5              | 5               |                   | ŝ              | 707                       | 272              | 5         | 322                | 344                |
|                                          | 2070             | 434                | <u></u>           | 1110              | 1130              | 600                           | 1090             | 377             | : \$              | 312            | 333                       | 750              | 780       | 1140               | 3.6<br>1060        |
| Dissolved Metals                         |                  |                    |                   |                   |                   |                               |                  |                 |                   |                |                           |                  |           |                    |                    |
| Aluminum D-Al                            | <u>40.03</u>     | 40.0¥              | 0.699             | <0.03             | <0.03             | <0.03                         | CO.0>            | ¢0.01           | 40.05             | 50,01          | 40.01                     | <0.03            | <0.03     | 90.0               | 50.05              |
| Anlimony D-Sb                            | <0.003           | 0.003              | 0.0028            | <0.003            | 0.016             | <0.003                        | <0.003           | 0.002           | <0.005            | 0.002          | 0.005                     | 0.003            | 0.006     | <0.003             | <0.003             |
|                                          | 0.005            | 0.004              | 0.0187            | 0.015             | <0.003            | <0.003                        | <0.003           | 0.001           | <0.005            | <0.001         | <0.001                    | <0.003           | <0.003    | 40.003             | <0.003             |
| Barlum D-8a                              | <b>6</b> 0.02    | Q.02               | 0.23              | 0,03              | <u>60.02</u>      | 0.03                          | €0.02            | 0.02            | 0.44              | 0.03           | 0.02                      | 0.02             | 0.03      | 0.02               | 0.02               |
| Beryllium D-Be                           | <0.005           | <0.002             | £0.001            | <0.005            | <0.005            | <0.005                        | <0.005           | <0.002          | <0.01             | <0.002         | <0.002                    | <0.005           | <0.005    | <0.005             | <0.005             |
| _                                        | ,                |                    | •                 | •                 | •                 | •                             |                  | •               | Ĩ                 | •              |                           | •                |           | ,                  | •                  |
| Boron D-B                                | <b>5</b>         | 50.1               | <u>6</u>          | ¢0.1              | <0,1              | <0.1                          | <0.1             | £0,1            | £0,1              | £0,1           | <0.1                      | 40.1             | <0.1      | ÷.                 | £07                |
| Cadmium D-Cd                             | 0.0006           | 40.0001            | 0.00005           | ¢0,0003           | <0.0003           | <0.0003                       | 0.0004           | <0.0001         | <0.0005           | <0.0001        | <0.0001                   | 0.0006           | 0.0004    | 0.0004             | 0.0019             |
| calcum U-Ca                              | 5/1              | 136                | 62.4              | 274               | 189               | 246                           | 346              | 191             | 120               | 144            | 160                       | 252              | 258       | 369                | 400                |
| 둌                                        | <0.005           | <0.002             | -00.05            | <0.05             | ¢0.005            | <0.005                        | <0.005           | €0.002          | <0.01             | <0.002         | <0.002                    | <0.005           | <0.005    | <0,005             | <0.005             |
| Copail U-Co                              | 0.019            | 0.0046             | <0.003            | 0.158             | <0 D02            | 0.006                         | 0.026            | <0.0006         | <0.003            | 0.0049         | <0.0006                   | 0.015            | 0 024     | 0.032              | 0.014              |
|                                          | 000/02           | 2000-              |                   | cm                |                   | 600 (Q                        | 40.00<br>2.00    | <0.002          | 5.0               | €0.005<br>\$12 | <0.002                    | <0.05            | <0.005    | <0.005             | <0.05              |
|                                          | 0.023            | - 000 <del>0</del> | 0.0161            | 200.02            | 0.05              | 17.4                          | 40.003           | +0 00+          | 1,14              | 100.02         | 0.48                      | 40.03<br>200 c   | 0.03      | 0.1                | 60 Q               |
| ۶                                        | <0.03            | <0.01              | <0,005            | 0.02              | 0.05              | £0.03                         | 0.03             | 10,0            | 0,17              | 10.05          | 10.05                     | 50 02<br>50 02   | 50.03     | 300                | 50 03              |
| Magnestum D-Mg                           | 203              | 28.5               | 10.2              | 119               | 43.3              | 42.4                          | 68.7             | 29,1            | 44.2              | 34.9           | 27.6                      | 49.3             | 47.9      | 74.5               | 74.6               |
| Janganese D-Mn                           | 30.4             | 9.12               | 0.249             | 40.5              | 0.264             | 15.4                          | 25.9             | 0.667           | 0.244             | 6,23           | 0.236                     | 16.4             | 18.9      | 26.3               | 21.9               |
| Mercury D-Hg                             | <0.00005         | <0.00005           | <0.00005          | <0.00005          | <0.00005          | <0.00005                      | <0.00005         | <0.00005        | <0.00005          | <0.00005       | <0.00005                  | <0.00005         | <0.00005  | <0.00005           | <0.00005           |
| Molybdenum D-Mo                          | <0.005           | <0.002             | 0.003             | <0.005            | 600.0             | <0.005                        | <0.005           | <0.002          | <0.01             | <0.002         | <0.002                    | <0.005           | <0.005    | <0.005             | <0.005             |
| Nickel D-Ni                              | 0.007            | 0.005              | 0.001             | 0.075             | <0.005            | 0.006                         | 0.048            | <0.002          | ¢0.01             | 0.004          | <0.002                    | 0.018            | 0.032     | 0.059              | 0.089              |
|                                          | • ;              |                    | •                 | •                 | •                 |                               | •                |                 | ,                 |                | •                         |                  |           |                    |                    |
| Potessium Dr.A.                          | 4 0              |                    | 2                 | 7                 | 2                 | 0                             | w l              | 4               | m (               | 4              | ę                         | ø                | υ.        | 9                  | ø                  |
| Silicon D-Si                             | cm'n             | 700.02             | 13.7              | c00.05            | c00.02            | <ul> <li>cub.p&gt;</li> </ul> | <0000>           | <0.002          | 40.02             | <0.002         | <0.002                    | <0.005           | <0.005    | <0.005             | <0,005             |
| Silver D-An                              | <0.0001          | 20 00004           | <0.00002          | <0.0001           | - 0000            | 100002                        | 10000            | 10000 0-        |                   |                | 100000                    | , 000 01         |           |                    |                    |
|                                          | Ë                | ġ                  | e                 | g                 | 715               | E.e.                          | 44               |                 | 57                | 10000          |                           |                  | 10000     | 5000               |                    |
| Strontium D-Sr                           |                  | } ,                | ۰ ،<br>           | ; ,               | ; ,               | 3.                            | ţ,               | ţ.              | ; ·               | 5, 1           | <del>к</del> -            | 3                | 2         | Αŋ                 | 415                |
| Thallium D-TI                            | €0:001           | <0.0004            | <0.0002           | <0.001            | <0.001            | <0.001                        | <0.001           | <0.0004         | <0.002            | <0.0004        | <0.0004                   | -000<br>-        | -0.005    | 10002              |                    |
| Tin D-Sn                                 | <0.003           | <0.001             | <0.0005           | <0.003            | <0.003            | <0.003                        | <0.003           | <0.001          | <0.005            | <0,001         | ¢0.001                    | <0.003           | <0.003    | 5000               | 0000               |
| Titanium D-Ti                            | <0.01            | €0.01              | 0.02              | £0.02             | <0.01             | <0.01                         | 10,0>            | <0.01           | <0.01             | <0.01          | €0.01                     | 40.01            | 40.01     | 6.0 <sup>2</sup>   | 10.02              |
| Uranium D-U                              | 0.001            | 0.0027             | 0,0004            | 0.004             | ¢0,001            | 0.005                         | 0.005            | 0.0026          | <0.002            | 0,0096         | 0.0054                    | 0.005            | 0.009     | 0.005              | 0.004              |
| Vanadium D-V                             | E0.0>            | <0.03              | <0.03             | <0.03             |                   | 50,                           | 500              | 0007            | 0007              |                | 20.01                     |                  |           |                    |                    |
|                                          |                  |                    |                   |                   | -                 | 2007                          | 5.00             | 20.07           | 50.00             | 50.02          | <ul> <li>cu,u3</li> </ul> | - CO.O2          | €0.03     | 000                | CO.02              |

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|                                           | •                                                                          |                   |                   |                   |                   |                                |           |                 |                  |                 |             |
|-------------------------------------------|----------------------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|--------------------------------|-----------|-----------------|------------------|-----------------|-------------|
|                                           |                                                                            |                   |                   |                   | Downgra           | Downgradient of Pollshing Pond | Ing Pond  |                 |                  |                 |             |
| Sample ID                                 | PO1-01A                                                                    | P01-01B           | P01-02A           | P01-02B           | X18A              | X189                           | X16A      | X16B            | X17A             | X17B            | P01-11      |
| Lab Sample ID                             | e .                                                                        | 4                 | 10                | ÷                 | æ                 | 6                              | -         | 7               | S                | 9               | ę           |
| Ueptin or Monitor (m ogs)<br>Date Sampled | 21.4<br>6/10/2002                                                          | 5.cf<br>6/10/2002 | 14.1<br>6/10/2002 | 28.4<br>6/10/2002 | 10.6<br>6/10/2002 | 28.7<br>6/10/2002              | 6/10/2002 | 34<br>5/10/2002 | 6.2<br>6/10/2002 | 25<br>6/10/2002 | 6/11/2002   |
| Physical Tests                            |                                                                            |                   |                   |                   |                   |                                |           |                 |                  |                 |             |
| Conductivity (uS/cm)                      | 1230                                                                       | 1040              | 625               | 554               | 1210              | 1110                           | 319       | 407             | 500              | 649             | 1160        |
| lvec                                      | 1010                                                                       | 807               | 443               | 392               | 992               | 887                            | 185       | 236             | 297              | 403             | 931         |
| Hardness CaCO3                            | 697                                                                        | 573               | 348               | 276               | 706               | 634                            | 168       | 229             | 275              | 331             | 563         |
| Hd                                        | 7.75                                                                       | 77.7              | 8.09              | 8.17              | 7.65              | 1911                           | 8.12      | 8.19            | 19.1             | 7.67            | 7.91        |
|                                           |                                                                            |                   |                   |                   |                   |                                |           |                 |                  |                 |             |
| â                                         | 5                                                                          | 12                | 6                 | 8                 | 17                | 14                             | N         | 2               | 7                | 18              | 7           |
| ř.                                        | 211                                                                        | 9EZ               | 192               | 182               | 217               | 222                            | 150       | 205             | 233              | 320             | 175         |
|                                           | 2.2                                                                        | 21                | 2,3               | ***<br>***        | 2.1               | 6.1                            | 12        |                 | 1,1              | 6,4             | 3.6         |
| Suprate SO4                               | 570                                                                        | 402               | 158               | 128               | 553               | 470                            | 58<br>78  | 8               | 46               | 54              | 573         |
| Dissolved Metals                          |                                                                            |                   |                   |                   |                   |                                |           |                 |                  |                 |             |
|                                           | <0.01                                                                      | \$0.01            | €0.005            | <0.005            | <0.01             | <0,01                          | <0.005    | 0,011           | <0.005           | <0.005          | £0.04       |
| 2~                                        | 0.002                                                                      | 0.001             | <0.0005           | 0.001             | 0.002             | D.D04                          | 0,0014    | 0.0024          | 0.0013           | 0.0009          | 0.003       |
|                                           | <u>^0.001</u>                                                              | 0.012             | 0.0005            | 0.0025            | 0.009             | <0.001                         | <0.0005   | <0.0005         | 0.0006           | <0.0005         | 0.006       |
| Barlum D-Ba                               | 0.11                                                                       | 5                 | 9.0               | 0.03              | 0.21              | 0.13                           | 0.09      | 0.14            | 0.15             | 0.26            | 0.05        |
|                                           | <0.002                                                                     | €0.002            | 0.00              | 40.001            | <0.002            | <0.002                         | <0.001    | <0.001          | <0.001           | <0.001          | <0.002      |
|                                           | •                                                                          | •                 | •                 |                   | •                 |                                | •         |                 | •                | •               | •           |
|                                           |                                                                            | ç,                | 40.1              | 5                 | 6<br>1            | <b>€0.1</b>                    | <u>6</u>  | <del>6</del>    | 40,1             | ő.              | <b>40.1</b> |
| caomum u-ca                               | <0.0001                                                                    | ¢0.001            | <0.00005          | <0.00005          | <0.0001           | 0.0003                         | <0.00005  | <0.00005        | <0.00005         | <0.00005        | <0.0001     |
|                                           | 99. V                                                                      | 173               | 5                 | 68.3              | 206               | 183                            | 48,4      | 63.8            | 74.7             | 8               | 170         |
|                                           | 200.02                                                                     | <0.002            | <0.001            | <0.001            | 40.002            | 40.002                         | 60.001    | -0.001          | <0.001           | €0.001          | <0.002      |
|                                           | 6000.02                                                                    |                   | 10001             | 10000             | 0000              | <0.000                         | -0.003    | <0.003          | E000.9>          | <0.0003         | 0.0018      |
|                                           | 50 Q                                                                       | 0.67              | 50.02             | 0 10              | 50.0              | 200.02                         |           |                 | 50.02            | 100.05          | <0.002      |
| _                                         | 60.00                                                                      | 40.001            | <0.005<br><       | 20.0005           | 1000              | 4005                           | 50.002    | 50.00           | 50.00            | 11.1            | 80°C        |
| -                                         | 0.0                                                                        | 0.0               | 0.006             | 0.006             | 10,0              | 40.05                          | 40.005    | <0.005          | <0.05            | 0.029           | 800         |
| Magneslum D-Mg                            | 44.5                                                                       | 34.6              | 23.6              | 25.7              | 46.5              | 43,3                           | 11.5      | 16.9            | 21.5             | 25,5            | 33.7        |
| Manganese D-Mn                            | 0.0158                                                                     | 0.113             | 0.35              | 0.237             | 2.55              | 1.79                           | 0,0033    | <0.0003         | 0.01             | 0.276           | 3.63        |
| Mercury D-Hg                              | <0.00005                                                                   | <0.00005          | <0.00005          | <0.00005          | <0.00005          | <0.00005                       | <0.00005  | <0.00005        | <0.00005         | <0.00005        | <0.00005    |
| Molybdenum D-Mo                           | <0.002                                                                     | 0.002             | 0.001             | <0.001            | <0.002            | <0.002                         | 0.002     | 0.002           | <0.001           | <0.001          | 0.013       |
| Nickel D-Ni                               | <0.002                                                                     | <b>€0.002</b>     | 0.003             | 0.004             | <0.002            | 0.011                          | ¢0.001    | €0,001          | <0.001           | <0.001          | 0.004       |
|                                           | •                                                                          | •                 |                   | •                 | •                 | ı                              | •         | •               | •                | •               | ,           |
|                                           | 9                                                                          | 4                 | m                 | 14                | 9                 | 9                              | 6         | ۵.              | 4                | N               | ę           |
| Setemum U-Se                              | 200,02                                                                     | <0.002            | <0.001            | 100.0>            | <0.002            | <0.002                         | 0.002     | 0.002           | €0.001           | ¢0.001          | <0.002      |
| Silver D.Ad                               | <0.0004<br>                                                                | -00004            | <0.0000 AS        |                   | -0000             |                                |           | , 0000          | ,<br>,           |                 | - 0000      |
|                                           | 70                                                                         | ac ac             | 18                | 10                | BC                |                                | 700000    | 2000000         | 2000.00          | 100000          | +0000.0V    |
|                                           | ; •                                                                        | ; ,               | 2 1               | 2.                | 3                 | ų .                            | ; ,       | ÿ.              | <b>,</b>         | :               | 0           |
| Thallium D-TI                             | <0.0004                                                                    | <0.0004           | <0.0002           | <0.0002           | <0.0004           | <0.0004                        | <0.0002   | <0.000          | <0.000           | en nim          | <0.000 S    |
| Tin D-Sn                                  | 40.001                                                                     | ¢0.001            | <0.0005           | <0.0005           | <0.001            | <0.001                         | <0.0005   | <0.0005         | <0.0005          | <0.0005         | 40.04       |
| Tilanium D-Ti                             | <0.01                                                                      | ¢0.01             | <0.01             | 6.01              | £0,01             | ¢0.01                          | <0.01     | <0.01           | <0.01            | <0.01           | <0.01       |
| Uranium D-U                               | 0.0054                                                                     | 0.0069            | 0.0026            | 0.0039            | 0.0052            | 0.008                          | 0.0015    | 0.0022          | 0.0032           | 0.0015          | 0.0036      |
| Vanadium D-V                              | 00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00 | ¢0'03             | 40.03             | 60.03<br>1        | ¢0.03             | <0.03                          | <0.03     | £0.03           | <0.03            | <0.03           | €0.03       |
| 2inc U-2n                                 | <0.01                                                                      | <0.01             | <0.005            | <0.005            | 60.0 <del>0</del> | \$0.03                         | 0.005     | <0.005          | <0.005           | <0.005          | \$0.07      |

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Results are expressed as militigrams per filte except where noted. < = Less than the detection limit indicated. ALS File No. P5893

Notes:

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|                           | Upgradient |           | Orio      | inal Impound | nent      |               | [            |           |                 | Ser          | ond Impound       | reg nt            |                   |           |           |
|---------------------------|------------|-----------|-----------|--------------|-----------|---------------|--------------|-----------|-----------------|--------------|-------------------|-------------------|-------------------|-----------|-----------|
| Sample ID                 | TH85-17    | P01-10A   | P01-108   | P01-08A      | P01-08B   | P01-08C       | P01-09A      | P01-09B   | P01-09C         | P01-09D      | P01-07A           | P01-07B           | P01-07C           | P01-07D   | P01-07E   |
| Lab Sample ID             | 81         | 78        | 80        | 76           | 73        | 74            | 64           | 65        | 63              | 62           | 55                | 54                | 53                | 1         | 1         |
| Depth of Monitor (m bgs)  |            | 15.2      | 21        | 15.5         | 25,6      | 29.7          | 11.7         | 16.5      | 22,1            | 28,4         | 18                | 23,5              |                   | 52        | 51        |
| Date Sampled              | 9/27/2002  | 9/27/2002 | 9/27/2002 | 9/27/2002    | 9/27/2002 | 9/27/2002     | 9/26/2002    | 9/25/2002 | 9/26/2002       | 9/26/2002    | 9/25/2002         | 9/26/2002         | 27.8<br>9/26/2002 | 34,2      | 40,4      |
|                           | 1          |           |           |              |           |               |              |           | ULUILUUL        | SIRGIEGGE    | 312012002         | 3/20/2002         | 9/20/2002         | 9/26/2002 | 9/26/2002 |
| Physical Tests            |            |           |           |              |           |               | 1            |           |                 |              |                   |                   |                   |           | 1         |
| Conductivity (uS/cm)      | 157        | 2200      | 674       | 857          | 1210      | 900           | 30300        | 1640      | 1010            | 1470         | 1770              | 1730              | 1040              | 1420      |           |
| Hardness CaCO3            | 76.3       | 404       | 253       | 26.7         | 563       | 458           | 3130         | 417       | 314             | 510          | 40.6              | 136               | 493               | 552       | 1490      |
| рH                        | 8.06       | 8.2       | 7,85      | 8,05         | 6.07      | 6.91          | 3.34         | 5.27      | 4.05            | 4.5          | 9.02              | 7.91              | 7,47              |           | 693       |
|                           |            |           |           |              |           |               |              |           | 1               | 1            | 3.02              | 1.01              | 1.47              | 7.15      | 7.25      |
| Dissolved Anions          |            |           |           |              |           |               |              |           |                 |              |                   |                   |                   |           |           |
| Acidity (Io pH 8.3) CaCO3 | 4          | 2         | 14        | 4            | 133       | 31            | 43500        | 518       | 185             | 308          | <1                | 8                 | 16                |           |           |
| Alkalinity-Total CaCO3    | 67         | 171       | 266       | 139          | 38        | 61            | <1           | 7         | <1              | <1           | 272               | 407               | 200               | 33        | 26        |
| Chloride CI               | 0,6        | 8.7       | 3.9       | 5.5          | 1.4       | 1,7           | <0.5         | 1.3       | 1               | 1.1          | 19.7              | 8.6               | 200               | 154       | 125       |
| Sulphate SO4              | 12         | 1030      | 97        | 258          | 666       | 409           | 56200        | 1110      | 621             | 950          | 590               | 519               | 402               | 1         |           |
|                           |            | 1         |           |              |           |               |              |           |                 | 300          | 300               | 319               | 402               | 766       | 818       |
| Dissolved Metals          |            |           |           |              |           |               |              |           |                 |              |                   |                   |                   |           |           |
| Aluminum D-Al             | <0.005     | <0.03     | <0,005    | 0.02         | 0.01      | <0.01         | <3           | 0.1       | <0.05           | 0.09         | 0.07              | <0.03             | <0.01             | -0.04     |           |
| Antimony D-Sb             | <0.0005    | 0.047     | <0.0005   | 0.027        | <0.001    | 0.003         | <0.3         | <0.005    | <0.005          | <0.005       | 0.029             | 0.03              |                   | <0.01     | <0.01     |
| Arsenic D-As              | <0.0005    | <0.003    | 0.0081    | 0.001        | <0.001    | 0.003         | <0.3         | <0.005    | <0.005          | <0.005       | 0.029             |                   | 0.007             | <0,001    | <0.001    |
| Barium D-Ba               | 0.04       | 0.04      | 0.23      | <0,02        | 0,04      | <0.02         | <0.5         | <0.003    | 0.03            | <0.003       |                   | 0.003             | 0.032             | 0.003     | <0.001    |
| Beryllium D-Be            | <0.001     | <0.005    | <0.001    | <0.002       | <0.002    | <0,002        | <0.5         | <0.02     | <0.03           | <0.02        | 0.05              | 0.02              | 0,06              | 0,06      | 0.03      |
| Baron D-B                 | <0.1       | <0.1      | <0.1      | <0.1         | <0.1      | <0.1          | <3           | <0.1      | <0.01           | <0.01        | <0.005            | <0.005            | <0.002            | <0.002    | <0.002    |
| Cadmium D-Cd              | <0.00005   | <0.0003   | <0.00005  | <0.0001      | 0.0024    | <0.0001       | <0,03        | 0.0073    | 0.0023          | 0.0055       | <0.1              | <0.1              | <0.1              | <0.1      | <0.1      |
| Calcium D-Ca              | 22.8       | 26.2      | 81.8      | 8.5          | 166       | 142           | 432          | 121       | 89.8            |              | < 0.0003          | <0.0003           | <0.0001           | 0,0002    | 0.0007    |
| Chromium D-Cr             | <0.001     | <0.005    | <0.001    | <0.002       | <0.002    | <0.002        | <0.5         | <0.01     | <0.01           | 149<br><0,01 | 10.7              | 23.6              | 147               | 160       | 205       |
| Cobalt D-Co               | < 0.0003   | 0,003     | 0,0008    | 0.0009       | 0.0881    | 0.0006        | <0.3         | 0.259     | 0.082           | 0.257        | <0.005            | <0.005            | <0.002            | <0.002    | <0.002    |
| Copper D-Cu               | <0,001     | <0.005    | <0.001    | <0.002       | <0.002    | <0.002        | <0.2         | <0.239    | <0.01           | <0.01        | 0.003             | 0,008             | 0.0054            | 0.0213    | 0.0479    |
| Iron D-Fe                 | 0.11       | 0.19      | 4.06      | <0.03        | 59        | 55            | 24900        | 238       | 78.6            | 127          | <0.005            | <0.005            | <0,002            | <0.002    | <0.002    |
| Lead D-Pb                 | 0.0007     | 0.095     | <0.0005   | 0.005        | <0.001    | 0.007         | 0.6          | <0.005    | <0.005          | <0.005       | 0.68<br>0,116     | 0.2               | 14.7              | 8,05      | 4,64      |
| Lithium D-Li              | <0.005     | <0.03     | <0.005    | <0.01        | 0.01      | <0.01         | <3           | 0.06      | <0.05           | 0.007        | <0.03             | 0.014             | 0.004             | <0.001    | <0.001    |
| Magnesium D-Mg            | 4.7        | 82.2      | 11.8      | 1.3          | 35.9      | 25,5          | 497          | 27,9      | 21.8            | 33.7         | ×0.03<br>3.4      | <0.03             | <0.01             | <0.01     | 10.0      |
| Manganese D-Mn            | 0.0045     | 0.082     | 5,64      | 0.0708       | 20        | 6.54          | 185          | 36.2      | 16,1            | 25.1         |                   | 18,8              | 30.9              | 37.3      | 44        |
| Mercury D-Hg              | <0.00005   | <0.00005  | <0.00005  | <0.00005     | <0.00005  | <0.00005      | <0.00005     | <0.00005  | <0.00005        | <0.00005     | 0.042<br><0.00005 | 0.112<br><0.00005 | 20.6              | 35.1      | 37.7      |
| Molybdenum D-Mo           | <0.001     | 0.052     | 0.009     | 0.076        | <0.002    | <0.002        | <0.5         | <0.01     | <0.000          | <0.01        | 0.124             |                   | <0.00005          | <0.00005  | <0.00005  |
| Nickel D-NI               | <0.001     | <0.005    | <0.001    | <0.002       | 0.061     | <0.002        | 1.1          | 0.33      | 0.11            | 0.23         | <0.005            | 0.147<br><0.005   | 0.002             | <0.002    | <0.002    |
| Potassium D-K             | <2         | 11        | 3         | 7            | 3         | 3             | 53           | 4         | 2               | 4            | 14                | 14                | 0.005             | 0.01      | 0.043     |
| Selenium O-Se             | <0.001     | <0.005    | <0.001    | <0.002       | <0.002    | <0.002        | <0.5         | <0.01     | <0.01           | <0.01        | <0.005            | <0.005            | 4                 | 4         | 3         |
| Silver D-Ag               | <0.00002   | <0.0001   | <0.00002  | <0.00004     | <0.00004  | <0.00004      | <0,01        | <0.0002   | <0.0002         | <0.0002      | <0.0001           | <0.0001           | <0.002            | <0.002    | <0.002    |
| Sodium D-Na               | <2         | 329       | 44        | 179          | 15        | 17            | <50          | 18        | 10              | 18           | 436               |                   | <0.00004          | <0.00004  | <0.00004  |
| Thallium D-TI             | <0.0002    | <0,001    | <0.0002   | <0,0004      | <0.0004   | <0,0004       | <0.1         | <0.002    | <0.002          | <0.002       | 430<br><0.001     | 332<br><0.001     | 38                | 28        | 35        |
| Tin D-Sn                  | <0,0005    | <0.003    | <0.0005   | <0,001       | <0.001    | <0.001        | <0.3         | <0.002    | <0.002          | <0.002       | <0.001            | 1                 | <0.0004           | <0.0004   | <0,0004   |
| Tilanium D-Ti             | <0.01      | <0.01     | <0.01     | <0.01        | <0.01     | <0.01         | <0.3         | <0.005    | <0.005          |              |                   | <0.003            | <0.001            | <0.001    | <0.001    |
| Uranium D-U               | 0.0004     | 0.002     | 0.0181    | 0.0004       | 0.001     | 0.0012        | <0.3         | <0.00     |                 | <0,01        | < 0.01            | <0.01             | <0.01             | <0.01     | <0.01     |
| Vanadium D-V              | <0.03      | <0.03     | <0.03     | <0.03        | <0.001    | <0.03         | <0.3<br><0,8 | <0.002    | <0.002<br><0.03 | <0.002       | 0.002             | 0.001             | 0,0051            | 0.0046    | 0.002     |
| Zinc D-Zn                 | 0.01       | 0.05      | <0.005    | 0.02         | 0,6       | <0.03<br>0.04 | 4070         | F 1       | -               | <0.03        | <0.03             | <0.03             | <0.03             | <0,03     | <0.03     |
|                           | 0,01       | 0.05      | 40,000    | 0.02         | 0,0       | 0.04          | 4070         | 45.1      | 34,4            | 26.1         | 0,11              | 0.05              | <0.01             | <0.01     | 0.26      |

|                           |                   |           | Intermediate Impoundment | npoundment |           |                 |           |           |           |           | Intermediate Dam | E          |           |           |           |
|---------------------------|-------------------|-----------|--------------------------|------------|-----------|-----------------|-----------|-----------|-----------|-----------|------------------|------------|-----------|-----------|-----------|
| Sample ID                 | X21A              | 812X      | X21C                     | P01-05A    | P01-05B   | P01-06          | P01-03    | P01-04A   | P01-04B   | X25A      | X258             | X24A       | X24B      | X24C      | X24D      |
| Lab Sample ID             | 60                |           | 58                       | 57         | 56        | 61              | 17        | 83        | 8         | 28        | 27               | 16         | 7         | ţ         | 12        |
| Depth of Monitor (m bgs)  | 6.5               | 14.7      | 29.4                     | 10.7       | 10.5      | 16.4            | 9.3       | 34        | 53.4      | æ         | 19.2             | 6.5        |           | 16.5      | 28.3      |
| Date Sampled              | 9/26/2002         | 9/26/2002 | 9/26/2002                | 9/26/2002  | 9/26/2002 | 9/26/2002       | 9/23/2002 | 9/24/2002 | 9/24/2002 | 9/24/2002 | 9/24/2002        | 9/23/2002  | 9/23/2002 | 9/23/2002 | 9/23/2002 |
| Physical Tests            |                   |           |                          |            |           |                 |           |           |           |           |                  |            |           |           |           |
| Conductivity (uS/cm)      | 4680              | 1180      | 340                      | 1900       | 1520      | 2770            | 1870      | 1020      | 1030      | 895       | 1010             | 1580       | 1270      | 1990      | 2230      |
| Hardness CacO3            | 2380              | 512       | 181                      | 623        | 774       | 1150            | 1010      | 548       | 462       | 452       | 497              | 860        | 646       | 1100      | 1310      |
|                           | 5.5               | 7.08      | 8.19                     | 7.45       | 7.82      | 5.83            | 6.92      | 1.73      | 7.49      | 5.9       | 8,05             | 7.59       | 7.18      | 7.57      | 7.76      |
| Disculated Auforn         |                   |           |                          |            |           |                 |           |           |           |           |                  |            |           |           |           |
| Acidity the cH 8 31 C-CO3 | 1010              | ç         |                          | -          | Ş         | 400             | 5         | Ţ         | ę         | •         |                  | ;          | ş         | å         | ;         |
| छ ।                       |                   | 2         | - (                      | 4          | 2         | 585             | /c        | 2         | R i       | ~ .       | * 1              | 17         | 32        | 20        | ຊ         |
| 2                         | ÷.                | 157       | 179                      | 272        | 228       | 67              | 308       | 183       | 605       | 245       | 275              | 273        | 275       | 310       | 338       |
|                           | 4.5               | 2.1       | 0.9                      | 6.1        | 4.<br>2   | 2.9             | ਸ਼,<br>ਵ  | 1.9       | 7.3       | 1.5       | 1.8              | 4.3        | 3.4       | ŝ         | 4.2       |
| Sulphate SO4              | 3850              | 576       | ~                        | 1040       | 716       | 1880            | 1260      | 336       | 44        | 292       | 341              | 39         | 542       | 1030      | 1150      |
| Dissolved Metals          |                   |           |                          |            |           |                 |           |           |           |           |                  |            |           |           |           |
| Atuminum D-AI             | 0.12              | 10.0>     | <0.005                   | £0,0>      | 10.0>     | 0.05            | \$0'03    | 10,0>     | 10.05     | ¢0.01     | <0.05            | <0.01      | 0.03      | <0.03     | <0.03     |
| Antimony D-Sb             | <0.005            | <0,001    | <0.0005                  | 0.014      | <0.001    | <0.003          | <0.03     | <0.001    | <0.001    | <0.001    | <0.001           | ¢0,001     | <0.001    | <0.003    | <0.003    |
| Arsenic D-As              | 0.007             | 0.004     | 0.0243                   | <0,003     | 0,002     | 0.015           | <0,003    | <0.001    | 0.001     | ×0.001    | <0.001           | <0.001     | <0.001    | <0.003    | <0.003    |
| Barlum D-Ba               | <0.02             | <0,02     | 0.16                     | <0.02      | 0.03      | <0.02           | D.02      | 0.03      | 0,36      | 0.03      | 0.03             | 0.03       | 0.03      | 0.02      | 0.02      |
| Beryllium D-Be            | <0.01             | <0.002    | <0.001                   | <0.005     | <0.002    | <0.005          | <0.005    | <0.002    | <0.002    | <0.002    | <0.002           | <0.002     | <0.002    | <0.005    | <0.005    |
| Baron D-B                 | 6.1<br>1          | ÷0,1      | <0.1                     | £.0        | <u>6</u>  | 4 <u>0</u> .1   | <0.1      | £0,1      | ÷0.1      | ¢0,1      | ¢.1              | <0.1       | ¢0,1      | <0.1      | ¢0,1      |
| Cadmium D-Cd              | 0.0058            | <0.0001   | <0.00005                 | <0.0003    | <0.0001   | <0.0003         | 0.0005    | 0.0002    | <0.0001   | <0.0001   | <0.0001          | 0.0007     | 0.0003    | 0.0005    | 0.002     |
| Cafcium D-Ca              | 302               | 152       | 57                       | 179        | 240       | 277             | 304       | 134       | 114       | 129       | 155              | 260        | 202       | 329       | 399       |
|                           | €0,01             | <0,002    | <0.001                   | <0.005     | <0.002    | <0,005          | <0,005    | <0.002    | <0,002    | <0.002    | <0.002           | <0.002     | <0.002    | <0.005    | <0.005    |
|                           | 0.056             | 0.0062    | <0.0003                  | <0.002     | 0.0069    | 0.169           | 0.027     | <0.0008   | <0.006    | 0.0052    | <0.0005          | 0.0185     | 0.0046    | 0.035     | 0.016     |
| 5                         | <0.01             | <0.002    | <0.001                   | <0.005     | <0.002    | <0.005          | <0.005    | <0,002    | <0,002    | 0.003     | <0,002           | <0.002     | 0.002     | <0.005    | <0,005    |
|                           | 763               | 37        | 0,3                      | 0.97       | 4.57      | 518             | 0.28      | \$0.03    | <0.03     | 0.24      | 0.51             | \$0.03     | 0.05      | 0,05      | <0.03     |
| Lead D-Pb                 | 0.198             | <0.001    | <0.0005                  | 0.016      | 0,002     | 0.003           | <0.003    | 100.0>    | <0,001    | <0.001    | +00.0>           | <0.001     | <0.001    | <0.003    | <0.003    |
| Jihhum D-Li               | <0.05             | <0.01     | <0.005                   | 0.04       | 10.05     | <del>0</del> 03 | \$0.03    | 0.01      | 0.16      | <0.01     | £0,01            | <0.01      | ¢0.01     | <0.03     | <0.03     |
| Magnesium D+Mg            | 394               | 32        | 9.5                      | 42.8       | 42        | 111             | 61,3      | 51.8      | 42.9      | 31.7      | 26.7             | 51.2       | 34.7      | 67        | 76.2      |
| Manganese D-Mn            | 59.8              | 9.86      | 0.22                     | 0.171      | 17,3      | 45.6            | 25.7      | 0.0015    | 0.238     | 6.49      | 0.19             | 19,2       | 6.02      | 27.4      | 23.7      |
| Mercury D-Hg              | D,00005           | <0.00005  | <0.00005                 | <0.00005   | <0.00005  | <0.00005        | <0.00005  | <0.00005  | <0.00005  | <0,00005  | <0.00005         | <0.00005   | <0.00005  | <0.00005  | <0.00005  |
|                           | ¢0.01             | <0.002    | 0.004                    | 0.006      | <0.002    | <0.005          | <0.005    | <0.002    | <0.002    | <0.002    | <0.002           | <0.002     | <0,002    | <0.005    | <0.05     |
| Nickel D-Ni               | 0.02              | 0.004     | <0.001                   | <0.005     | 0.004     | 0.071           | 0.045     | 0,007     | <0.002    | 0.004     | <0.002           | 0.016      | 0.01      | 0.061     | 0.093     |
| Polassium D-K             | 18                | ч         | V                        | ŝ          | 4         | 1               | ŝ         | n         | •         | *         | n                | ŝ          | ŝ         | ŝ         | 9         |
| Selenium O-Se             | 40,0 <del>1</del> | <0.002    | <0.001                   | <0.005     | <0.002    | <0,005          | <0,005    | 0,002     | <0.002    | <0.002    | <0,002           | <0.002     | <0.002    | <0.005    | <0.005    |
| <b>u</b>                  | <0.0002           | <0.00004  | <0.00002                 | <0.0001    | <0.00004  | <0.0001         | ×0.0001   | <0.00004  | <0.0004   | <0.00004  | <0.00004         | <0.00004   | <0,00004  | <0.0001   | <0.0001   |
| Sodium D-Na               | 82                | 66        | e                        | 200        | 61        | 38              | 37        | Q         | 8         | 25        | 51               | 28         | 28        | 33        | 44        |
| Ē.                        | <0.002            | <0.0004   | <0.0002                  | <0.001     | <0.0004   | <0,001          | <0,001    | <0.0004   | <0.0004   | <0.0004   | <0.0004          | <0.0004    | <0.0004   | <0.001    | <0.001    |
| Tin D-Sn                  | <0.005            | <0.001    | <0.0005                  | ×0.003     | <0.001    | <0.003          | ¢0,003    | <0.001    | <0,001    | <0.001    | <0,001           | <0.001     | <0.001    | <0.003    | <0.003    |
|                           | t0,05             | +0,01     | <0,01                    | 10,05      | <0.01     | <0.01           | <0.01     | <0.01     | €0.01     | 40,01     | <0.01            | <0.01      | <0.01     | <0.01     | <0.01     |
| Uranium D-U               | <0.002            | 0.0027    | <0,0002                  | <0.001     | 0.0049    | 0.004           | 0.005     | 0,0039    | 0,0005    | 0,0089    | 0,0052           | 0.0057     | 0.0076    | 0,005     | 0.004     |
| .=                        | <0.03             | <0.03     | <0.03                    | <0.03      | <0.03     | <0.03           | ¢0.03     | <0.03     | \$0.03    | <0.03     | <0.03            | <0.03      | £0,05     | <0.03     | ¢0:03     |
| 7iuc 0-7u                 | 6.72              | 0:08      | <00.05                   | 40'03      | T         | 2.58            | - EU.US   | AD:0      | - (0.0>   | <0.0>     | - 10.0×          | <0.01<br>− | <0.01     | <0.03     | 0.03      |

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|                           |           |           |           |           | Downgrad  | lient of Polish | ing Pond  |                  |               |                |           |
|---------------------------|-----------|-----------|-----------|-----------|-----------|-----------------|-----------|------------------|---------------|----------------|-----------|
| Sample ID                 | P01-01A   | P01-018   | P01-02A   | P01-02B   | X18A      | X18B            | X16A      | X16B             | X17A          | X17B           | P01-11    |
| Lab Sample ID             | 4         | 3         | 9         | 11        | 82        | 7               | 2         | 1                | 6             | 5              | 8         |
| Depth of Monitor (m bgs)  | 21,4      | 35.3      | 14.1      | 28.4      | 10.6      | 28,7            | 8         | 34               | 6.2           | 25             | l .       |
| Date Sampled              | 9/23/2002 | 9/23/2002 | 9/23/2002 | 9/23/2002 | 9/23/2002 | 9/23/2002       | 9/23/2002 | 9/23/2002        | 9/23/2002     | 9/23/2002      | 9/23/2002 |
|                           | 1         | 1         | 1         |           |           |                 |           | 5.20,200E        | 3.20.2002     | 3/23/2002      | 3/23/2002 |
| Physical Tests            | 1         |           |           |           |           | 1               |           |                  |               |                |           |
| Conductivity (uS/cm)      | 1080      | 1240      | 625       | 561       | \$150     | 1180            | 346       | 404              | 400           |                |           |
| Hardness CaCO3            | 589       | 675       | 325       | 263       | 590       | 647             | 227       |                  | 430           | 529            | 1600      |
| pH                        | 8.05      | 7.99      | 8,1       | 8.17      | 7.79      | 7,96            | 1         | 223              | 242           | 285            | 879       |
|                           |           |           |           |           | 1.15      | 7,50            | 8,13      | 8,14             | 8.13          | 8.11           | 7.96      |
| Dissolved Anions          |           |           |           |           |           |                 |           |                  |               |                |           |
| Acidity (to pH 8.3) CaCO3 | 4         | 6         | 3         | 2         |           |                 |           | ·                |               |                |           |
| Alkalinity-Total CaCO3    | 232       | 217       | 196       | 179       | 14        | 6               | 2         | 2                | 2             | 3              | 8         |
| Chloride Cl               | 2.3       | 2.3       |           | 1         | 203       | 177             | 146       | 195              | 194           | 251            | 264       |
| Sulphate SO4              | 399       | 1         | 1.6       | 1.4       | 1.9       | 2.3             | 1.2       | 0.8              | 1.1           | 2.9            | 3.6       |
| Sophart 304               | 289       | 549       | 1430      | 115       | 449       | 550             | 36        | 25               | 36            | 39             | 716       |
| Dissolved Metals          |           | [         |           |           |           |                 |           |                  |               |                |           |
| Aluminum D-Al             |           |           |           |           |           |                 |           |                  |               |                |           |
| Antimony D-Sb             | <0.01     | <0.01     | <0,005    | <0.005    | 0.01      | <0.01           | <0.005    | 0.006            | <0.005        | <0.005         | 0.96      |
| Arsenic D-As              | <0.001    | <0.001    | <0,0005   | <0.0005   | <0.001    | <0.001          | <0.0005   | <0.0005          | <0.0005       | <0.0005        | <0.001    |
|                           | 0.01      | <0.001    | 0,0006    | 0,0023    | 0.007     | <0.001          | <0.0005   | <0.0005          | 0.0006        | <0.0005        | 0.012     |
|                           | 0.1       | 0.11      | 0,06      | 0.04      | 0.2       | 0.13            | 0.13      | 0.13             | 0.13          | 0.25           | 0.07      |
| Beryllium D-Be            | <0,002    | <0.002    | <0.001    | <0.001    | <0.002    | <0.002          | <0.001    | <0.001           | <0,001        | <0.001         | <0,002    |
| Baron D-B                 | <0.1      | <0.1      | <0.1      | <0.1      | <0,1      | <0.1            | <0.1      | <0.1             | <0.1          | <0,1           | <0,1      |
| Cadmium D-Cd              | <0.0001   | <0.0001   | 0.00005   | <0.00005  | <0.0001   | 0.0001          | <0.00005  | <0.00005         | <0.00005      | <0.00005       | <0.0001   |
| Calcium D-Ca              | 178       | 200       | 93,7      | 64.8      | 170       | 188             | 63.6      | 62,6             | 66,3          | 78.3           | 270       |
| Chromium D-Cr             | <0.002    | <0.002    | <0.001    | <0.001    | <0.002    | <0.002          | <0.001    | <0.001           | <0.001        | <0.001         | <0.003    |
| Cobalt D-Co               | <0.0006   | <0.0006   | <0,0003   | 0.0006    | <0.0005   | <0.0006         | <0.0003   | <0,0003          | <0.0003       | <0.0003        | 0.0025    |
| Copper D-Cu               | <0.002    | <0.002    | <0.001    | <0.001    | <0.002    | <0.002          | <0.001    | <0.001           | <0.001        | <0.001         | 0.005     |
| Iron D-Fe                 | 0,71      | <0,03     | <0.03     | 0.16      | 2.29      | <0.03           | <0,03     | <0.03            | <0.03         | 0,68           | 7.43      |
| Lead D-Pb                 | <0.001    | <0.001    | <0.0005   | <0.0005   | <0.001    | <0.001          | <0.0005   | <0.0005          | <0.0005       | <0.0005        | 0.008     |
| Lilhium D-Li              | 0,01      | <0.01     | 0.006     | 0.005     | <0.01     | <0.01           | <0.005    | <0.005           | <0.005        | 0,022          | 0.02      |
| Magnesium D-Mg            | 35        | 42.4      | 22.1      | 24.4      | 40        | 43,1            | 16.4      | 16,2             | 18.7          | 21.8           | 49.8      |
| Manganese O-Mn            | 0.105     | 0.0141    | 0.273     | D.234     | 0,569     | 1.76            | 0.0004    | <0.0003          | 0.006         | 0.2            | 6.74      |
| Mercury D-Hg              | <0.00005  | <0.00005  | <0.00005  | <0.00005  | <0.00005  | <0.00005        | <0.00005  | <0.00005         | <0.00005      | <0.00005       | <0.00005  |
| Molybdenum D-Mo           | <0.002    | <0.002    | 0.002     | <0.001    | <0.002    | <0.002          | 0,002     | 0.002            | 0.001         | 0.001          | 0.005     |
| Nickel D-Ni               | <0.002    | 0,002     | 0.002     | 0.004     | <0.002    | 0.01            | <0.001    | <0.001           | <0.001        | <0.001         | 0,008     |
| Polassium D-K             | 4         | 6         | 3         | 3         | 5         | 6               | <2        | <2               | <2            | <2             | 11        |
| Selenium D-Se             | <0.002    | <0.002    | <0.001    | <0.001    | <0.002    | <0.002          | 0.002     | 0.002            | <0.001        | <0.001         |           |
| Silver D-Ag               | <0.00004  | <0.00004  | <0.00002  | <0.00002  | <0.00004  | <0.0002         | <0.0002   | <0.0002          | <0.00002      |                | <0.002    |
| Sodium D-Na               | 26        | 25        | 14        | 18        | 22        | 22              | <0.00002  | <0.00002         | <0.00002<br>3 | <0.00002<br>10 | 0.00005   |
| Thallium D-TI             | <0.0004   | <0.0004   | <0.0002   | <0.0002   | <0.0004   | <0.0004         | <0.0002   | <0.0002          | د<br><0.0002  |                | 53        |
| Tin D-Sn                  | <0.001    | <0.001    | <0.0005   | <0.0002   | <0.001    | <0.0004         | <0.0002   |                  |               | <0.0002        | <0.0004   |
| Tilanium D-Ti             | <0.01     | <0.01     | <0.0003   | <0.0003   | <0.01     | <0,001          | <0.01     | <0.0005<br><0.01 | <0,0005       | <0.0005        | <0.001    |
| Uranium D-U               | 0.0059    | 0,0048    | 0.0019    | 0.0036    | 0.004     | 0.0064          | 0.0022    |                  | <0.01         | <0.01          | 0.03      |
| Vanadium D-V              | <0.03     | <0.03     | <0.03     | <0.03     | <0.004    |                 |           | 0.0021           | 0,0026        | 0.0018         | 0.0029    |
| Zinc D-Zn                 | <0.03     | <0.03     | <0.005    |           |           | <0.03           | < 0.03    | <0.03            | <0.03         | <0.03          | <0.03     |
|                           | 10101     | N0,01     | <0.005    | <0.005    | <0.01     | <0.01           | <0.005    | <0.005           | <0.005        | <0.005         | 0.05      |

Notes: Results are expressed as milligrams per litre except where noted. < = Less than the detection limit indicated.

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