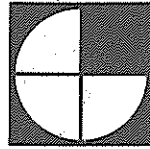




Gartner
Lee

**2000 Faro Annual Environmental Report
Water Licence QZ95-003**

Consultants In The Environment



**Gartner
Lee**

**2000 Faro Annual Environmental Report
Water Licence QZ95-003**

Prepared for:
Yukon Territory Water Board

Prepared by:
Gartner Lee Limited

on behalf of

**Deloitte & Touche LLP
(in their Capacity as Interim Receiver of Anvil Range Mining Corp.)**

March 1, 2001

GLL P20927

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Summary

Water quality, biological, physical and closure monitoring programs were performed during 2000 in accordance with Water Licence QZ95-003 (the "Licence"). This report presents the data that was gathered and an overview interpretation of the information.

Anvil Range Mining Corporation ("ARMC") entered into receivership in April 1998 and, since that time, management of the minesite has been under the direction of Deloitte & Touche LLP acting as court appointed interim receiver.

Surface water monitoring was conducted in 2000 by ARMC according to or in excess of the schedule for "temporary cessation of operations", as appropriate, and the results are presented in this report. The biological monitoring program described in Schedule B of the Licence was performed in 2000 by Laberge Environmental Services of Whitehorse, who have performed this task exclusively in the past. The full report on this task is appended to this report. The annual geotechnical/physical monitoring program described in Schedule C of the Licence was completed in 2000 by BGC Engineering Inc. A report describing the annual geotechnical performance review as prepared by BGC Engineering Inc. accompanies this report under separate cover. Seepage and ground water monitoring programs as described in Schedule D of the Licence were performed in 2000 by ARMC and the results are presented in this report.

The concentrator plant and all milling activities were shut down in February 1998 and remained shut down through 2000. No tailings and process water were deposited into the mined-out Faro Main Pit or into the Down Valley tailings impoundments. The backfilled Faro Zone II Pit was dewatered into the Faro Main Pit as required to maintain an acceptable water level in the Zone II pit.

The recycle water system which delivers water from the Faro Main pit to the mill for processing purposes or for discharge via the Down Valley tailings impoundments was used to deliver water from the Faro Main pit for treatment and discharge to Rose Creek. The water level in the Faro Main pit was maintained within an appropriate range during 2000.

Water quality at the two effluent discharge locations (Cross Valley Pond outflow and Cross Valley Dam seepage) was in compliance with the Licence with the exception of several isolated events that are described in this report. Ground water quality in 2000 in the Rose Creek valley generally indicated a continuation of the established trends with typically low metal concentrations. Ground water quality in the vicinity of the rock dumps displayed variable metal concentrations with some areas elevated.

Several physical maintenance tasks were completed to ditches and dykes on the mine site. All out-of-service PCB-containing equipment was removed from the mine property in 2000. A project for conversion of certain fixed equipment in the mill for use as a water treatment system was initiated in 2000 with the new system scheduled for use in spring/summer 2001. The new treatment system will reduce the risk of non-compliance related to treating water pumped from the Faro Main pit in the Intermediate dam outflow spillway.

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1. Introduction

This annual environmental report for the year 2000 has been prepared according to the provisions of Part A, Section 13 of Water Licence QZ95-003 (the "Licence"). This report provides water quantities used during the year and an interpretation of trends and variations in the water quality data. Anvil Range Mining Corporation entered into receivership in April 1998 and, since that time, the mine has been under the management of Deloitte & Touche LLP as court appointed Interim Receiver of Anvil Range Mining Corp. ("Deloitte & Touche"). This report, including all data presentations and interpretations, was prepared by Gartner Lee Limited ("Gartner Lee") based on information provided by Anvil Range Mining Corp. ("ARMC"), BGC Engineering Inc. and Laberge Environmental Services.

This report presents results of water quality monitoring per Schedules A and D of the Licence. All of the field information presented in this report including surface and ground water sampling, water quality analyses, pit and pond water levels, etc. was gathered by ARMC unless specifically stated otherwise. The macroinvertebrate monitoring program described in Schedule B of the Licence was performed in 2000 by Laberge Environmental Services of Whitehorse with their full report appended and a summary provided in this report. The physical monitoring program described in Schedule C of the Licence was performed in 2000 by BGC Engineering Inc. and is summarized herein with the full consultant report filed under separate cover as an accompanying document.

No milling and tailings deposition activities took place during 2000 following the suspension of mining and milling activities in February 1998. No freshwater from Rose Creek was required or used for industrial processing during 2000.

The recycle water system which provides water from the Faro Main pit to the mill for processing or for discharge was utilized during 2000 to pump water from the Faro Main pit for treatment and discharge to Rose Creek. The summer pumping program achieved the goal of lowering the water level in the Faro Main pit to a level where no further dewatering was scheduled until spring/summer of 2001.

The pumping well in the backfilled Zone II pit was operated during 2000 as required to maintain the water level in the Zone II pit within an acceptable range. Water from the Zone II pit was pumped into the Main pit as per the established practice.

Surface drainage from the Faro mine site, some seepage from the Main and Intermediate rock dumps and water discharged from the Faro Main pit via the recycle water system reported to the Down Valley tailings impoundments (unused for tailings deposition since 1992). Treatment for metals was achieved by adding lime slurry into water pumped from the Faro Main pit and utilizing the Intermediate pond as a settlement pond and by adding lime slurry into the decant from the Intermediate Pond and utilizing the Cross Valley Pond as a settlement pond.

The quality of treated effluent entering Rose Creek was within the maximum allowable discharge limits throughout 2000 with only infrequent excursions as described herein. The 2000 ground water monitoring results that are presented here continued to indicate low metal concentrations in the ground water regime downstream of the tailings impoundments even in light of some elevated concentrations of sulphate. Ground water monitoring results for 2000 also indicated the continued presence of some metals and elevated sulphate in shallow ground water below the Intermediate rock dump as has been observed in previous years.

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Water quality monitoring followed and, in some instances, exceeded the Licence schedule for temporary cessation of operations. ARMC, in consultation with Gartner Lee, incorporated several sampling locations into the 2000 surface water monitoring program that were not required by the Licence. The additional information that was collected at these "extra" sampling locations was considered important for managing environmental issues and for monitoring the environmental state of the environment. Surface and ground water monitoring locations are illustrated on Figures 1 and 2 and are listed on Table 1. Water quality analytical results for 2000 for all parameters analysed are listed with statistical summaries in Appendix 1 for surface water and Appendix 2 for ground water.

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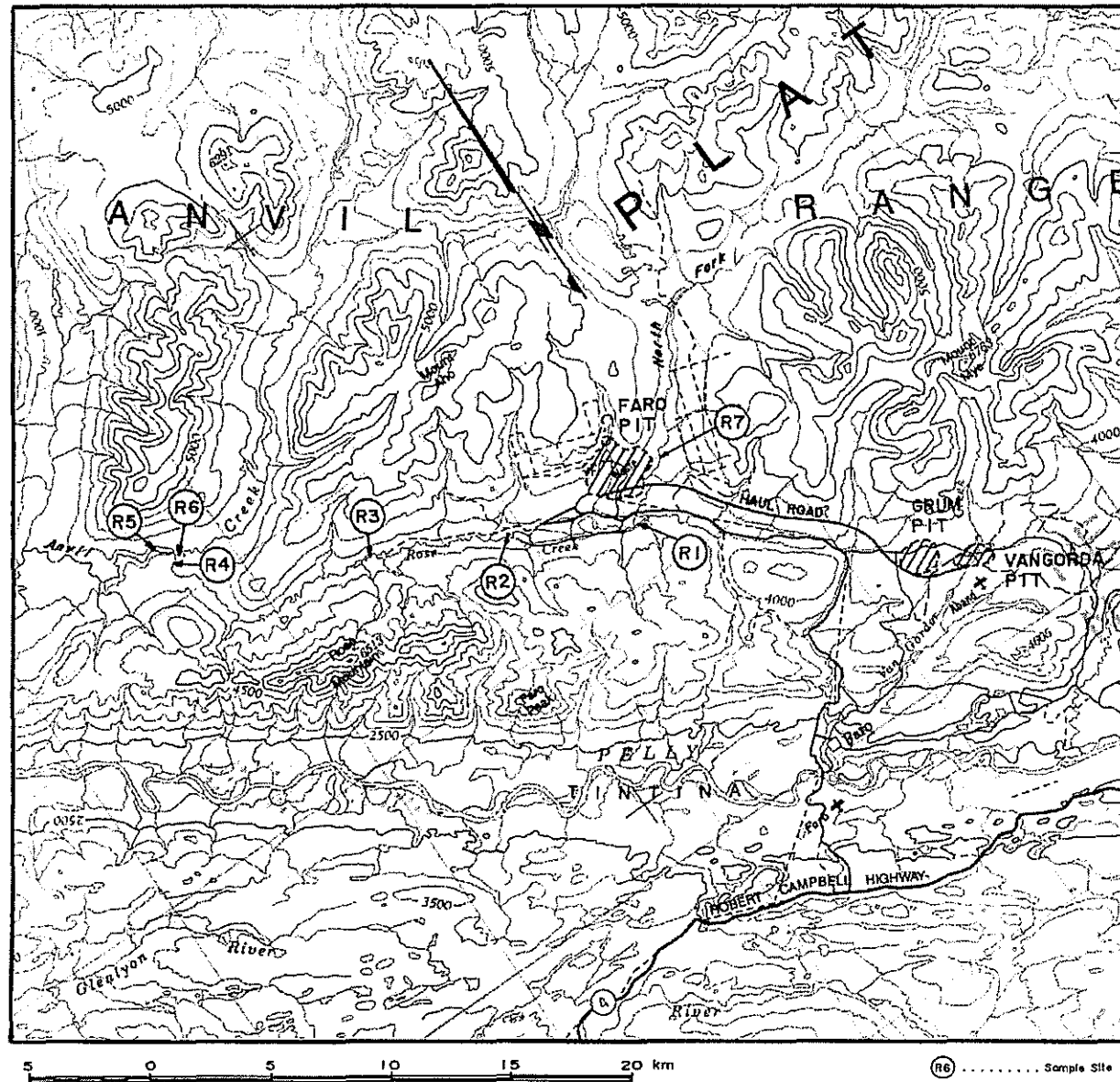


Figure 1: Faro Mine Drainage and Water Monitoring Locations



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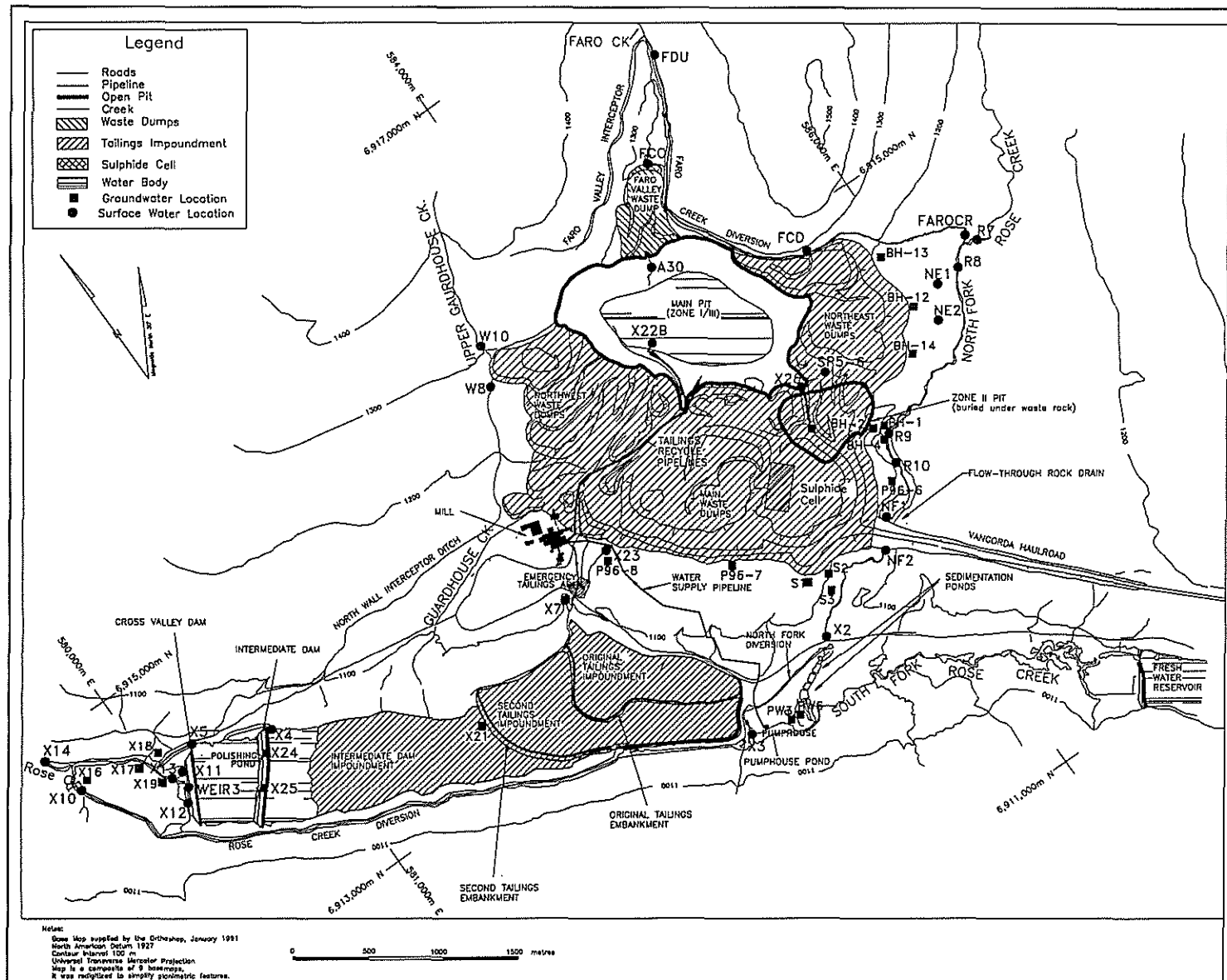


Figure 2: Water Quality Monitoring Locations

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Table 1: Water Quality Monitoring Locations

LOCATION	DESCRIPTION
X1	Point of discharge over the second impoundment
X2	North Fork of Rose Creek at road bridge
X3	Rose Creek at freshwater pumphouse
X4	Intermediate dam decant, prior to water treatment
X4a	Intermediate dam decant, below water treatment
X5	Cross Valley dam decant
X10	Rose Creek diversion canal below weirs
X11	Seepage from north toe of the Cross Valley dam
X12	Seepage from south toe of the Cross Valley dam
X13	Combined seepage flows downstream from the culvert and upstream of confluence with the decant
X14	Rose Creek after mixing downstream of the diversion canal confluence
X16a	Ground water monitor well - K1 at depth of 5m
X16b	Ground water monitor well - K1 at depth of 30m
X17a	Ground water monitor well - K2 at depth of 5m
X17b	Ground water monitor well - K2 at depth of 20m
X18a	Ground water monitor well - K3 at depth of 10m
X18b	Ground water monitor well - K3 at depth of 20m
X19a	Ground water monitor well - K4 at depth of 12m
X19b	Ground water monitor well - K4 at depth of 27m
X20	Ground water monitor well - K5
X21a	Ground water monitor well - K6 at depth of 10m
X21b	Ground water monitor well - K6 at depth of 27m
X22b	Main Pit water
X22c	Main Pit at point of discharge
X23	Old Faro Creek channel near the toe of the south west rock dumps
X24a	Ground water monitor well Intermediate Dam, North Abutment-shallow sample
X24b	Ground water monitor well Intermediate Dam, North Abutment-deep sample
X25a	Ground water monitor well Intermediate Dam, South Abutment-shallow sample
X25b	Ground water monitor well Intermediate Dam, South Abutment-deep sample
X26	Zone II pit water
BH-1, BH-2, &BH-4	Boreholes southeast of Zone II pit, west of North Fork of Rose Creek
R4	Rose Creek just above Anvil Creek
R5	Anvil Creek just below the confluence of Rose Creek
R6	Anvil Creek immediately upstream of Rose Creek
R7	North Fork of Rose Creek upstream of the confluence with the Faro diversion - background sample
R8	North Fork of Rose Creek, 100 metres downstream of confluence with Faro Creek diversion
R9	North Fork of Rose Creek, adjacent to BH-1 & BH-2
R10	North Fork of Rose Creek, at least 100 metres upstream from maximum elevation of water impounded behind North Fork rock drain and 100 metres downstream of R9

2. Water Use

2.1 Fresh Water

The fresh water supply system remained in place through 2000 but was not used.

The fresh water supply system was previously used (during mine operations) to supply water to the mill from the Pumphouse Pond located near the confluence of the South and North Forks of Rose Creek. The pond can be supplied from three sources:

1. Water stored in the fresh water reservoir which is recharged from the South Fork of Rose Creek. In previous years, some control of the reservoir has been exercised with the use of stoplogs across the overflow spillway. Withdrawal of water during the winter season is through a low level outlet valve that is buried at the base of the fresh water supply dam.
2. The North Fork of Rose Creek. Flow is through the natural channel into the Pumphouse Pond.
3. Two ground water wells, PW3 and PW6, located in the Rose Creek valley near the Pumphouse Pond.

During 2000, flow out of the pumphouse pond into the Rose Creek diversion channel was maintained at a rate greater than the minimum requirement in the Licence of 4.5 m³/min.

2.2 Recycle Water

The recycle water system which provides water from the Faro Main pit to the mill was installed during the summer of 1997 and was utilized to provide an estimated minimum 95% of the water required for processing while the mill was operating prior to February 1998. The system was utilized during 2000 to discharge water from the Faro Main pit to the Down Valley in order to maintain the in-pit water level within the pre-determined range.

The recycle water system is made up of the following primary components:

1. 3 electric pumps mounted on a floating barge in the pit rated at providing 5,000 USgpm each to the mill (only one or occasionally two pumps were utilized for effluent discharge in 2000),
2. 30" scilar pipeline from the barge to the water storage tank in the mill with flexible sections near the barge which prevent damage to the pipeline which might otherwise result from vertical movement of the barge,
3. 20" and 12" discharge pipelines which are tied into the 30" pipeline in and near the mill and which pass water into the drop box near the mill (the outlet into the mill water tank was closed in 2000),
4. drop box near the mill which collects any water or solids which are to be discharged to the Down Valley including: water discharged from the Faro Main pit, lime slurry mixed in the mill which is added into the water, emergency short duration tailings discharges, and various surface flows near the mill,
5. 20" pipeline from the drop box which passes water across the previous emergency tailings area and into the ditch leading to the Intermediate Impoundment,

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6. ditch which passes flow from the drop box and 20" pipeline into the upstream end of the Intermediate Impoundment.

The measured 2000 Faro Main pit water levels are illustrated on Figures 3 and 4. The filling curve shows the rate of filling prior to activation of the recycle water system in late July 1997 and the subsequent changes in the water level resulting from pumping for supply of water for processing and/or discharge.

The targeted maximum elevation of 3750ft UTM (3859ft mine datum) as illustrated on Figures 3 and 4 is approximately 15.2 metres (approximately 50 feet) below the low point in the pit perimeter where water would overflow from the Main pit into the Zone II pit. This safety margin was incorporated into the design of the recycle water system in order to provide containment for an unexpected breach of the Faro Creek diversion into the pit and to prevent a potential increase in seepage into the Zone II pit through the fractured and faulted wallrock that separates the two pits. Data regarding water volumes pumped from the Zone II pit on an annual basis indicate that there has not been a significant increase in the rate of seepage from the Main pit into the Zone II pit (Section 2.4).

2.3 Effluent Discharge

Effluent discharge to Rose Creek from the Faro minesite is limited to surface outflow from the Cross Valley pond (monitoring location X5) and seepage from the Cross Valley Dam (monitoring location X13). The surface outflow at location X5 may be via overflow or syphon. Ground water quality is monitored and is reported on in this document but is not considered an effluent discharge for these reporting purposes.

The primary source of water entering the Cross Valley pond is surface inflow from the Intermediate pond which may include seepage from the Faro rock dumps, runoff from the plant site, runoff from the local drainage area, and/or water discharged from the Faro Main pit. Other sources of water entering the Cross Valley pond are local area runoff, direct precipitation, and suspected ground water discharge into the pond.

There was no discharge of effluent via location X5 in 2000 until April when syphoning commenced to lower the Cross Valley Pond water level in preparation for start-up of the Faro Pit pumping system. Effluent discharge was generally continuous to mid-August and continued on an intermittent basis until late in November. The unusually wet and warm conditions that were experienced into the early winter resulted in inflows into the Cross Valley pond that were greater than normal for that time of year and this necessitated continuing the effluent discharge program into November.

The total volume of effluent discharged to Rose Creek via location X5 during 2000 was an estimated 3.9 million m³ with the flow rate varying from 0 to 1,000 Lps. The total estimated volume discharged via location X5 in 2000 was approximately 220% of the volume reported for 1999 (1.76 million m³). The increase in 2000 was primarily due to the discharge of a greater quantity of water from the Faro Main pit and the impacts from the wet weather that persisted into early winter. Instantaneous flow rates for location X5 are listed in Appendix 1.

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Figure 3: Faro Main Pit Filling Curve, 1992 to 2000

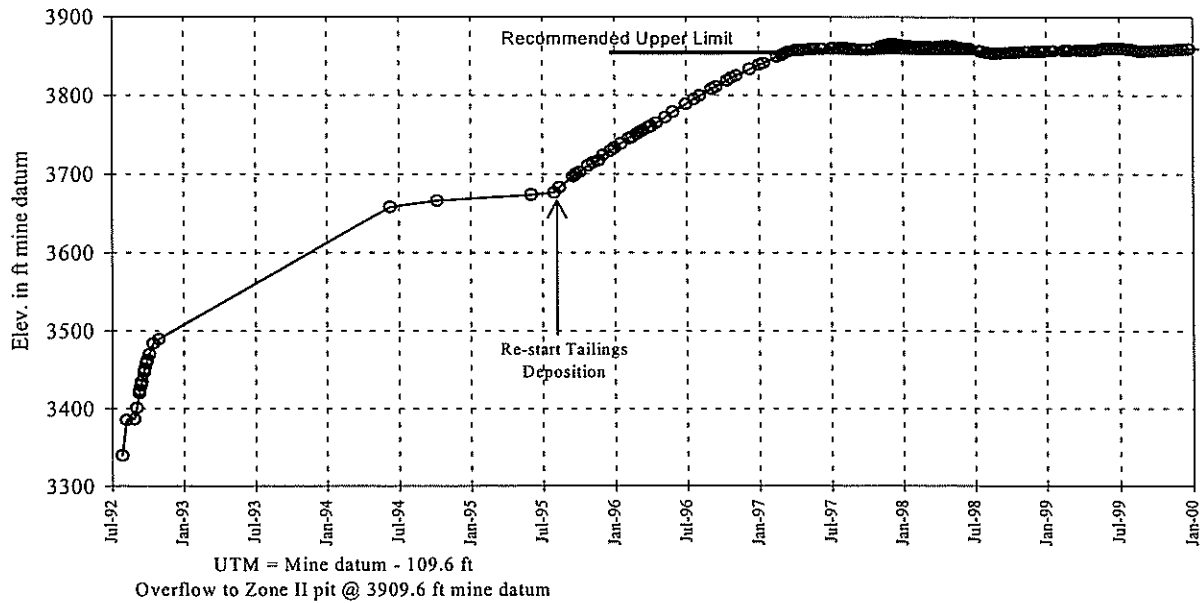
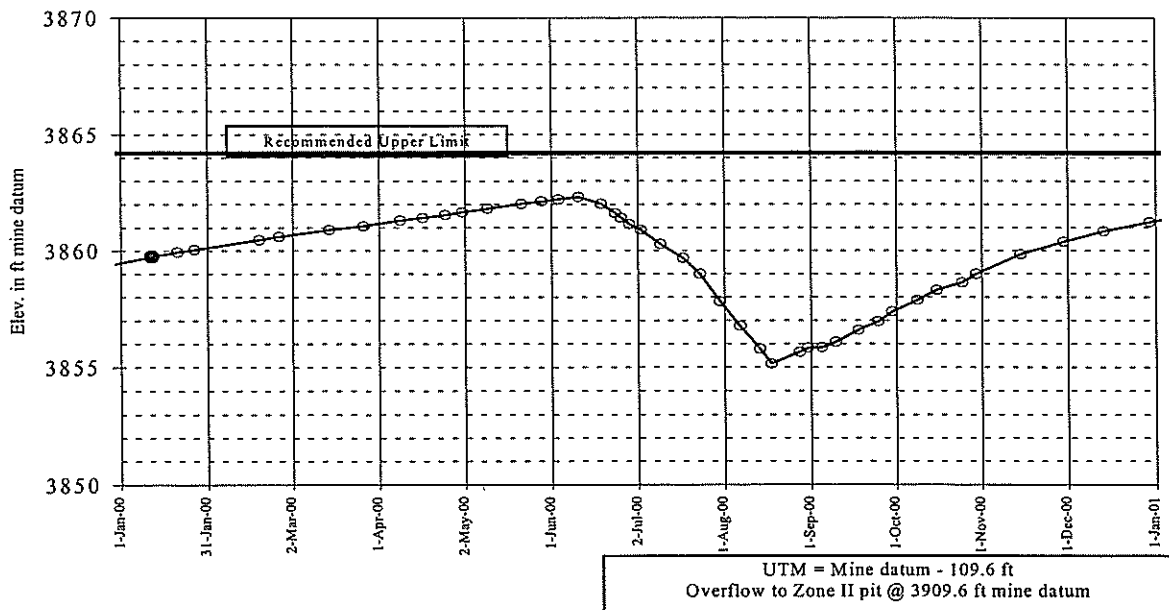


Figure 4: Faro Main Pit Water Elevation, 2000 Detail



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The total estimated effluent discharge to Rose Creek during 2000 (combined X5 and X13) was 5.4 million m³ which is approximately 156% of that reported for 1999 (3.47 million m³). The increase is considered to be due to the discharge of a greater quantity of water from the Faro Main pit and to the wet weather that persisted into the early winter.

A simplified water balance has been described for the Cross Valley pond wherein the known parameters are the quantities of: water pumped from the Faro Main pit, inflows from location X23, decanted outflow, seepage outflow (if assumed that all flow at location X13 originates from the Cross Valley pond), Int. Pond inflow calculated from net annual changes in the Intermediate pond water elevation, and net inflow calculated from net annual changes in the Cross Valley pond water elevation. The unknown water quantities could be referred to as "net uncontrolled inflows" and would include: run-off into and direct precipitation onto the Intermediate and Cross Valley ponds, seepage inflows from the Intermediate pond, seepage inflows from the ground water regime, and other possible sources. The simplified water balance could be expressed as follows with application of the following notes:

$$\text{Faro Pit Inflow} + \text{X23 Inflow} + \text{Net Uncontrolled Inflows} - \text{Decant} - \text{Seepage} - \text{Int. Pond Inflow} = \text{Net Inflow}$$

therefore, the 2000 water balance for the Cross Valley Pond can be expressed as:
 $1.80 + 0.1 + \text{Net Uncontrolled Inflows} - 3.9 - 1.46 - 0.05 = 0.07$ (in millions m³)

and the "Net Uncontrolled Inflows" for 2000 is estimated at 3.6 million m³

Notes:

1. The "Faro Pit Inflow" volume is described in Section 2.4.
2. The "X23 Inflow" volume is calculated from the individual flow rates listed in Appendix 1.
3. The "Decant" and "Seepage" outflow volumes are described above for locations X5 and X13, respectively.
4. The "Intermediate Pond Inflow" volume is +53,000 m³ for 2000 based on an observed net increase in pond water level of 0.11 metres from January 1 to December 31, 2000 over an assumed pond area of 480,000 m².
5. The "Net Inflow" is +72,000 m³ for 2000 based on an observed net increase in pond water level of 0.31 metres from January 1 to December 31, 2000 over an assumed pond area of 230,000 m².
6. Estimates of the "net uncontrolled inflows" for recent years indicate that the 2000 estimate is close to the estimated observed range (i.e. 1995 est. ~4.5-5.0 million m³, 1996 est. ~3.0-3.5 million m³, 1997 est. ~3.5-4.0 million m³, 1998 est. ~4.70 million m³, 1999 est. ~2.36 million m³).

2.4 Faro Main And Zone II Pits

A simplified water balance has been described for the Faro Main pit wherein the known parameters are the quantities of: tailings water inflow, tailings solids inflow, Zone II water inflow, net uncontrolled inflows (seepage in/out, runoff, precipitation, etc.) calculated from observed changes in the pit pond water elevation during strategic periods, and net inflow calculated from the net annual change in the Main pit water elevation. The unknown water quantities could be referred to as "water discharged" and would include water pumped from the main pit and discharged to the tailings impoundments. The simplified water balance could be expressed as follows with application of the following notes:

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Tailings Water + Tailings Solids + Zone II Water + Net Uncontrolled Inflows - Water Discharged = Net Inflow

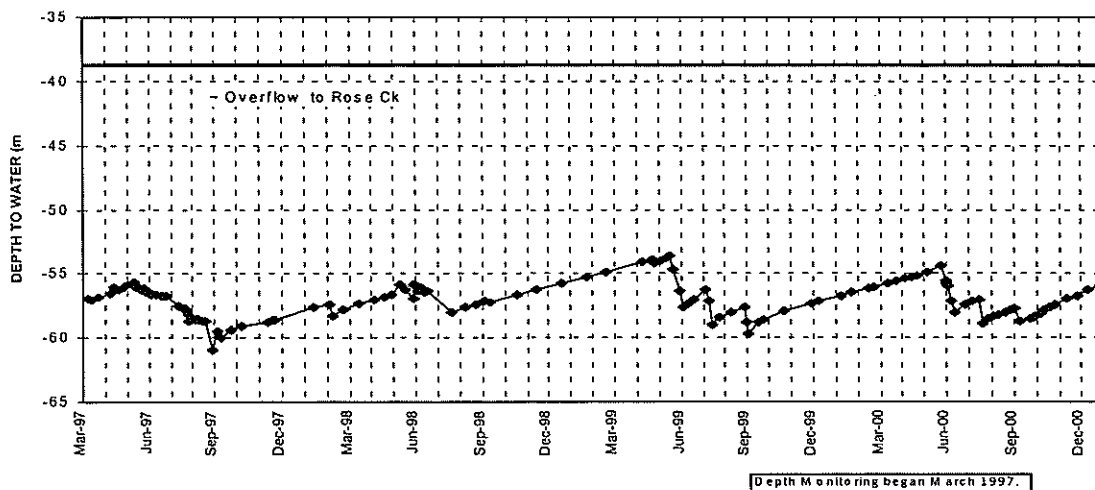
therefore the 1999 water balance for the Faro Main pit can be expressed as:
 $0.000 + 0.000 + 0.064 + 2.034 - \text{Water Discharged} = 0.302$ (in millions m^3)

and the "Water Discharged" for 1999 is estimated at 1.80 million m^3

Notes:

1. No mill tailings were discharged into the Faro Pit during 2000.
2. Water was pumped from the Zone II Pit into the Faro Pit during 2000. An open pipe was installed in the pumping well in March 1997 that allowed direct water level measurements. The measured water levels are illustrated on Figure 5. The total volume pumped during 2000 was estimated at 64,000 m^3 based on recorded pump hours of 744 hours and an average pumping rate of 0.024 m^3/s (375 USgpm). The pumping volume recorded for 2000 falls within the range observed in recent years as listed below:
 - 1995: Zone II volume pumped = 139,000 m^3
 - 1996: Zone II volume pumped = 75,000 m^3
 - 1997: Zone II volume pumped = 51,000 m^3
 - 1998: Zone II volume pumped = 43,070 m^3
 - 1999: Zone II volume pumped = 73,457 m^3

Figure 5: Faro Zone II Pit Water Elevation, 1997 to 2000



3. The calculated net volume of uncontrolled inflows entering the Main pit from direct precipitation, evaporation, local run off, seepage inflow and seepage losses was 2.034 million m^3 for 2000 (avg. 5,572 m^3/day). This estimate was developed from direct measurements of the in-pit water level during periods in 2000 where the only inflows/outflows were the uncontrolled water and inflow pumped from the Zone II pit. The estimate of net uncontrolled water inflows for 2000 is close to and slightly higher than the range of calculated values from 1995 to 1999 (1.2 to 1.9 million m^3). This corresponds to the generally wet weather that persisted into early winter in 2000. Further information regarding this note is provided in Table 2 below.

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4. The net inflow of material entering the Main pit (for the year) is accurately tracked via the change in water elevation from January 1 to December 31. The water level elevations relate to a pit volume determined for those elevations from as-built survey information. The total net volume entering the pit includes tailings slurry, tailings solids, Zone II dewatering, direct precipitation, evaporation, local run off, seepage inflow, seepage losses, leakage from the Faro Creek diversion, and water pumped out to the mill or for treatment/discharge. The average filling rate in the Main pit for 2000 was +827 m³/day (net average inflow) or +0.302 million m³ total (net inflow) for the year. The detailed filling curve for 2000 is illustrated on Figure 4. Further detail regarding this note is provided in Table 2 below.
5. Water was discharged from the Main pit to the Down Valley via the recycle water system in 2000. The total volume of water discharged from the Main pit in 2000 is estimated at 1.80 million m³ based on the known or assumed parameters described in notes 1 through 4 above. The average pumping rate achieved during the period of active pumping was 4,222 USgpm. This pumping rate is greater than that attained in previous years because two recycle pumps were operated simultaneously for a period in 2000. Further detail regarding this note is provided in Table 2 below.

In addition to the water balance information shown above, Table 2 provides further information regarding individual periods within the year 2000.

Table 2: Detailed Faro Main Pit Water Balance, 2000

Period	Elevation Change (ft mine dat)	Net Volume Change	Net Uncontrolled Inflows	Tailings (Water&Solids) Inflow	ZoneII Water Inflow	Water Discharged OUT
Jan01- Jun11 (162)	3859.42 - 3862.31 (+0.21 in/day)	+481,832 m ³ (+2,974m ³ /day)	+454,875 m ³ (+2,808m ³ /day)	nil	26,957m ³	nil
Jun12- Aug28 (78)	3862.31 - 3855.65 (-1.02 in/day)	-1,110,382 m ³ (-14,236m ³ /day)	+663,000 m ³ (+8,500m ³ /day) assumed	nil	22,810m ³	-1,796,192 m ³ (-23,028m ³ /day) (-4,222 USgpm)
Aug29- Oct31 (64)	3855.65 - 3859.00 (+0.63 in/day)	+558,525 m ³ (+8,727m ³ /day)	+544,010 m ³ (+8,500m ³ /day)	nil	14,515m ³	nil
Nov01- Dec31 (61)	3859.00 - 3861.23 (+0.44 in/day)	+371,794 m ³ (+6,095m ³ /day)	+371,794 m ³ (+6,095m ³ /day)	nil	nil	nil
Total 2000	3859.42 - 3861.23 (+0.06 in/day)	+301,769 m ³ (+827m ³ /day)	2,033,679 m ³ (+5,572m ³ /day)	nil	64,282m ³ (+176m ³ /day)	-1,796,192m ³ (-4,921m ³ /day) (-902 USgpm)

NOTES : 1. Mill did not operate in 2000.
2. "Full scale" pumping/discharge from Main pit took place from Jun12-Aug28.

2.5 Rose Creek At X14

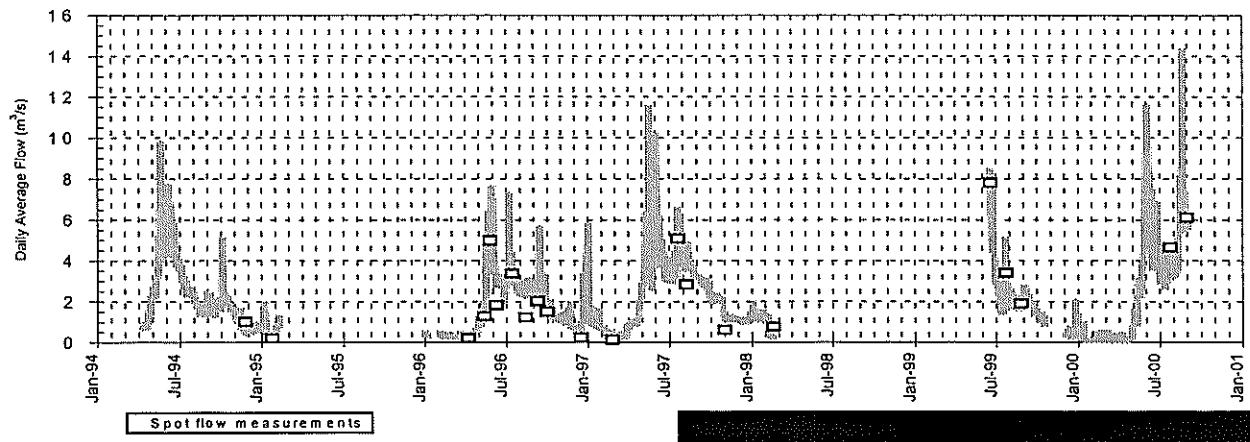
The water level at location X14 in Rose Creek downstream of the confluence with mine effluent discharged via locations X5 and X13 has been monitored on a continuous basis using a pressure transducer and datalogger. A datalogger and transducer were installed in June 1999 by Laberge Environmental Services of Whitehorse as a replacement for the previous unit which had ceased data collection.

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As a result of the malfunction of the original datalogger, a gap in the data record exists from February 1998 to June 1999. A second recent gap in the data record exists from October 1999 to December 1999 when the installation was damaged by vandalism and repairs were necessary.

The X14 flow record up to September 2000 is illustrated on Figure 6. Note that a new stage discharge curve was developed and used for calculation of flows post June 1999 and this curve is contained in Appendix 3.

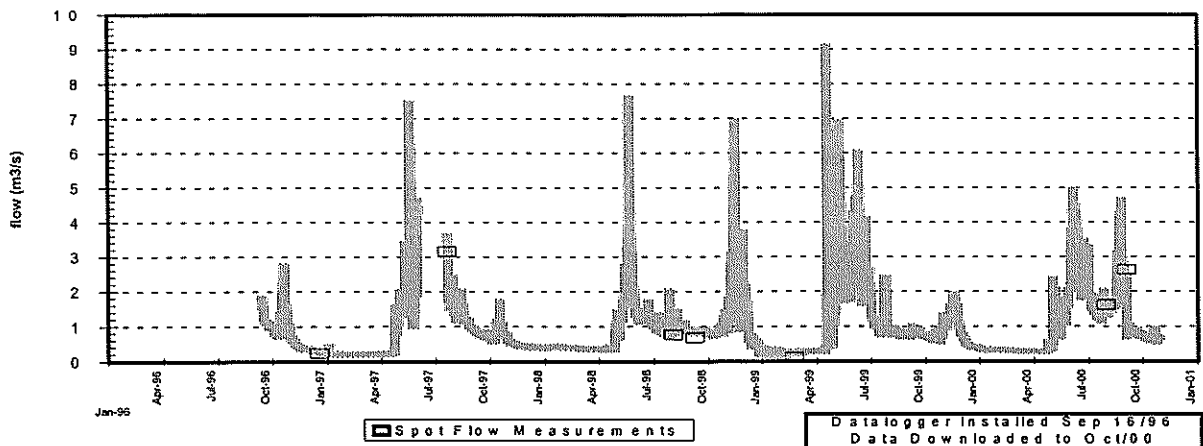
Figure 6: Rose Creek at Location X14 Flow Record, 1994 to 2000



2.6 North Fork Of Rose Creek At R7

Continuous flow recording at location R7 was re-initiated in September 1996 with installation of a new datalogger/transducer. The streamflow record for location R7 to October 2000 is illustrated on Figure 7. The rating curve used for calculating flows from the transducer readings is included in Appendix 3.

Figure 7: North Fork Rose Creek at Location R7 Flow Record, 1996 to 2000



3. Water Quality Monitoring (Schedule 'A')

3.1 Overview Of Water Quality Monitoring Program

Schedule A of the Licence requires the collection of samples from various locations around the mine, mill and tailings areas. These sites are listed in Table 1 and illustrated on Figures 1 and 2. A modified monitoring program which is to be applied during periods of temporary cessation of operations is described in Schedule A of the Licence. The modified program was generally followed or exceeded in 2000. All samples collected were grab samples with analyses carried out by either Cavendish Analytical Laboratory Ltd. of Vancouver B.C. or International Metallurgical and Environmental Inc. of Kelowna B.C.

The two surface effluent discharge points from the Faro mine site are locations X5 and X13, Cross Valley Pond outflow and seepage from the Cross Valley Dam, respectively. Surface drainage from the minesite, pre-treated water pumped from the Faro Main pit (location X22B) and seepage from the rock dumps (location X23) passed through the Intermediate tailings pond prior to discharge via one of these two locations. Location X4 is outflow from the Intermediate Dam and provided information on the quality of surface water in the Intermediate pond.

The receiving water, Rose Creek, was monitored at numerous locations in both the North Fork and the South Fork upstream and downstream of the minesite/tailings areas.

Spring and fall ground water monitoring surveys provided information regarding ground water quality in critical areas within and downstream of the minesite/tailings areas as reported in Sections 3 and 6 of this report.

The 2000 water quality data is listed in Appendices 1 and 2 with statistical summaries for each parameter. The data listing includes all parameters for which analyses were performed including data collected in excess of the Licence requirements. Surface water quality data is listed in Appendix 1. Ground water quality data is listed in Appendix 2. Annual surface seep surveys and extra" ground water monitoring that collected additional information around the mine area are described in Section 6 of this report.

3.2 Faro Pits And Rock Dumps (X22B, X23, X26, BH1, BH2, BH4)

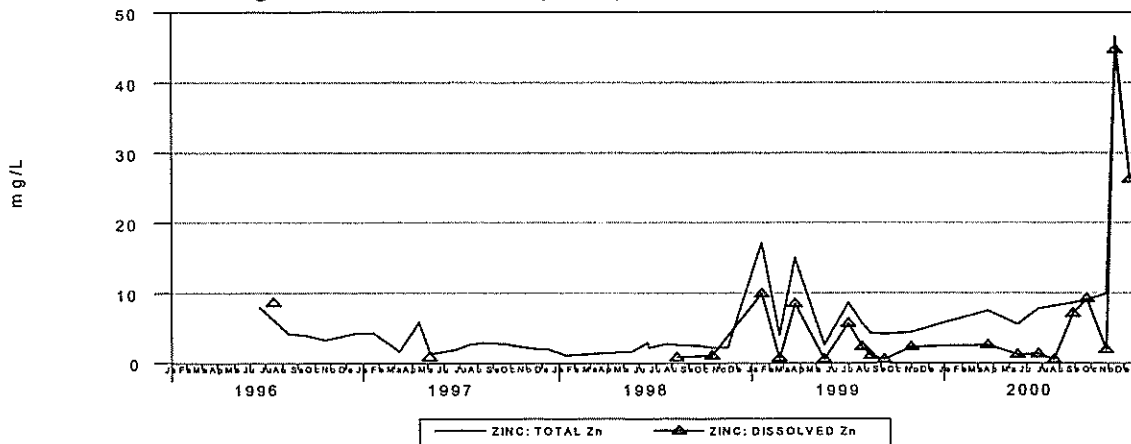
Water chemistry in the near surface zone of the Faro Main Pit is monitored at location X22B. Although sampling at location X22B is not required under the Licence schedule for temporary cessation of operations, nine samples were collected in 2000. Information at this location was considered important to the general understanding of environmental conditions at the mine site and also to management of the annual Faro pit pumping program.

Water quality at location X22B in 2000 was generally indicative of buffered acid rock drainage with elevated metals and sulphate at neutral pH. This was as expected given the presence of mineralized rock dumps and pit walls in the drainage area and the inflow (to February 1998) of lime treated tailings slurry. The elimination of the substantial inflow of high pH water via the tailings slurry is expected to result in a progressive deterioration of water quality and indication of such a trend was observed in 2000.

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The concentrations of total and dissolved zinc at location X22B ranged from 5.5 to 46.5 mg/L and from 0.5 to 44.7 mg/L, respectively, in 2000 with average annual concentrations of 14.3 and 10.5 mg/L, respectively, as illustrated on Figure 8. These concentrations continued to show erratic behaviour with high spikes during the winter season as was observed in 1998 and 1999. The spikes observed in late 2000 were greater than those observed in 1998 and 1999 and represent the highest concentrations on record since 1996. An increasing trend underlying the seasonal spikes for total zinc was apparent through 1999 and 2000.

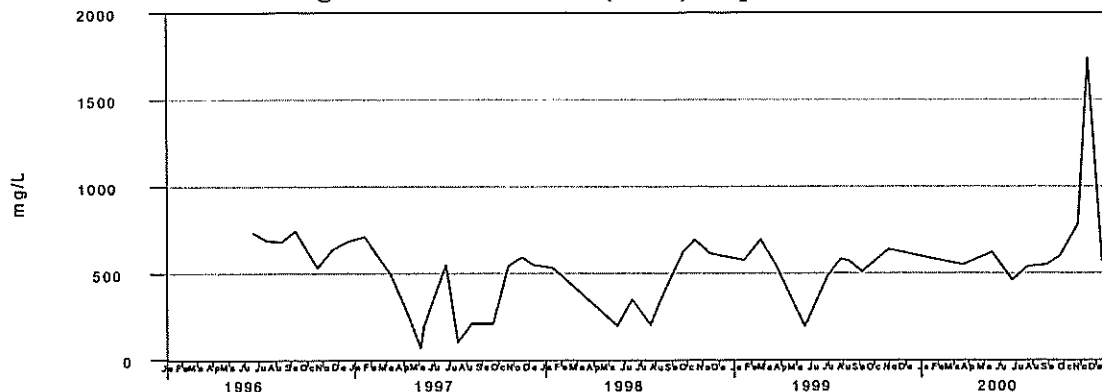
Figure 8: Faro Main Pit (X22B) Total and Dissolved Zinc



The concentration of sulphate at location X22B ranged from 457 mg/L to 1735 mg/L in 2000 with an average for the year of 710 mg/L as illustrated on Figure 9. The 2000 range and average concentration were greater than those observed in 1999. Seasonal (spring/summer) lows in the concentration of sulphate were not observed in 2000 as they were in 1998 and 1999. Further, a high spike that was observed late in 2000 was the highest concentration on record since 1996.

Water pH at location X22B was neutral in 2000 and ranged from 6.9 to 7.6 with an average of 7.3, which was similar to the range and average observed in 1999. The concentration of total ammonia ranged from 1.1 mg/L to 2.5 mg/L in 2000 with an average of 1.5 mg/L, which was slightly greater than the range and average observed in 1999.

Figure 9: Faro Main Pit (X22B) Sulphate



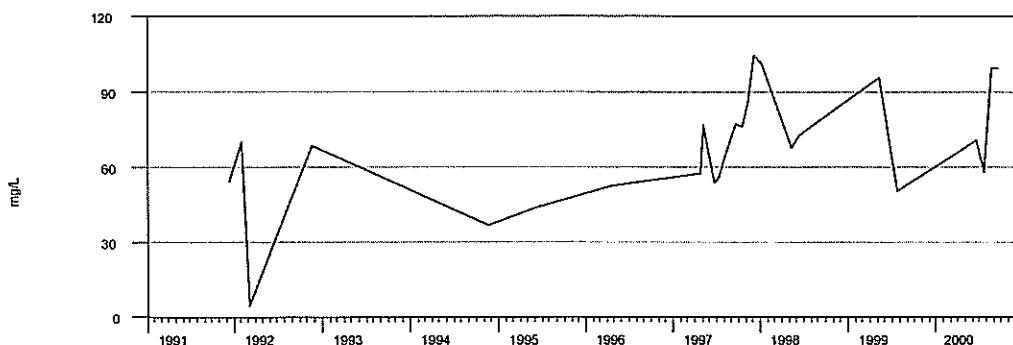
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Water chemistry in the backfilled Zone II Pit is monitored at location X26, which is water pumped from the Zone II Pit into the Main Pit. Although sampling at location X26 is not required under the Licence schedule for temporary cessation of operations, four samples were collected in 2000. Information at this location is important to identify any significant changes in water chemistry that may be related to acceleration in the acid rock drainage process.

Water chemistry at location X26 in 2000 showed elevated metals and sulphate at neutral pH as was observed in the Main Pit; however, water quality was poorer in the Zone II Pit. The concentrations of total and dissolved zinc ranged from 58 mg/L to 99 mg/L and from 26 mg/L to 94 mg/L, respectively, in 2000, which were similar to the ranges observed in 1999. Water pH ranged from 5.8 to 6.3 during 2000, which was similar to the range observed in 1999. The concentration of sulphate ranged from 1703 mg/L to 2236 mg/L in 2000, which was also similar to the range observed in 1999. The concentration of total ammonia was elevated (single analysis at 2.0 mg/L in 2000) due, likely, to leaching of residual blasting agents from surrounding rock dumps.

The available data for the Zone II pit (Figures 10 and 11) pit suggested a somewhat steady range for total zinc since 1997 and a slight increasing trend for sulphate since 1997. A detailed analysis of variations in water quality must include the potential influences of changes in the in-pit water level due to pumping as the repeated flushing of rockfill would be expected to release contaminants into the water.

Figure 10: Faro Zone II Pit (X26) Total Zinc

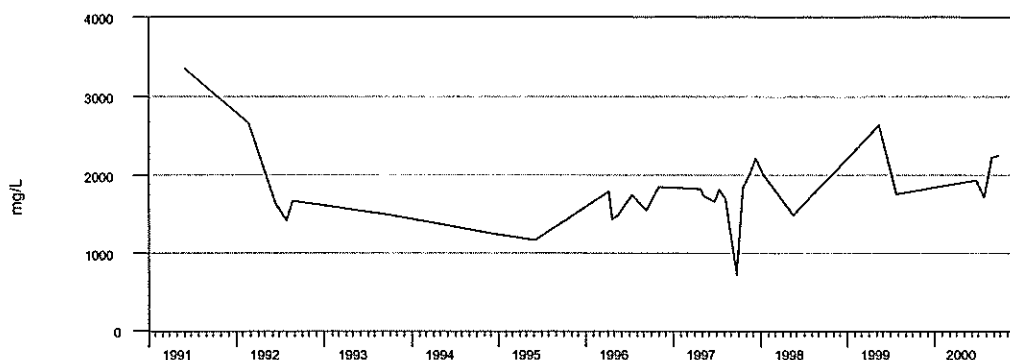


Surface seepage from the toe of the main rock dump area is sampled at location X23 located in the old Faro Creek channel where a large portion of the seepage from the Main and Intermediate rock dumps is assumed to collect. This water is passed into the Intermediate Impoundment and receives treatment prior to discharge. Water quality is typical of buffered acid rock drainage with elevated metals and sulphate at neutral pH. Location X23 is included in the Licence monitoring schedule for temporary cessation of operations and 11 samples were collected in 2000.



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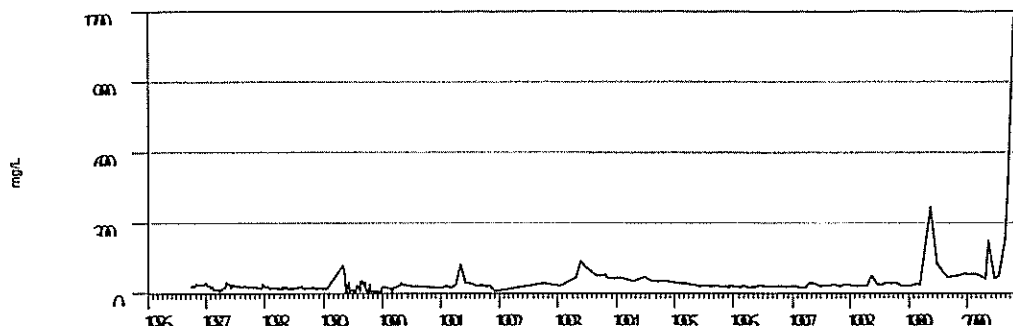
Figure 11: Faro Zone II Pit (X26) Sulphate



The pH at location X23 ranged from 6.3 to 6.9 during 2000, which was within the wider range that was observed in 1999. The concentrations of total and dissolved zinc ranged from 57 mg/L to 1,170 mg/L and from 5.2 mg/L to 1,120 mg/L, respectively, in 2000, which were similar to the ranges observed in 1999 except for several high peaks in 2000 that were the highest concentrations on record since 1986. The concentration of sulphate ranged from 2,735 mg/L to 10,571 mg/L, which was similar to the range observed in 1999 with the exception of a single high spike. The concentration of total ammonia was slightly elevated above background (0.05 to 0.7 mg/L in 2000) due, likely, to leaching of residual blasting agents from surrounding rock dumps.

The longer term trend in the concentration of total zinc at X23 is illustrated on Figure 12. The concentration of zinc was generally stable in a range from about 30 to 40 mg/L for two periods from 1986 through 1988 and from 1995 through 1998. During the period from 1989 through 1993, the concentration of zinc was more erratic and high spikes were observed up to about 125 mg/L. Active dewatering of the Faro pit during mine operations may have been the cause of the erratic concentrations. An increasing trend in the concentration of zinc is suggested since 1998 including some erratic high spikes. The fourth quarter 2000 concentrations were the greatest concentrationson record since 1986.

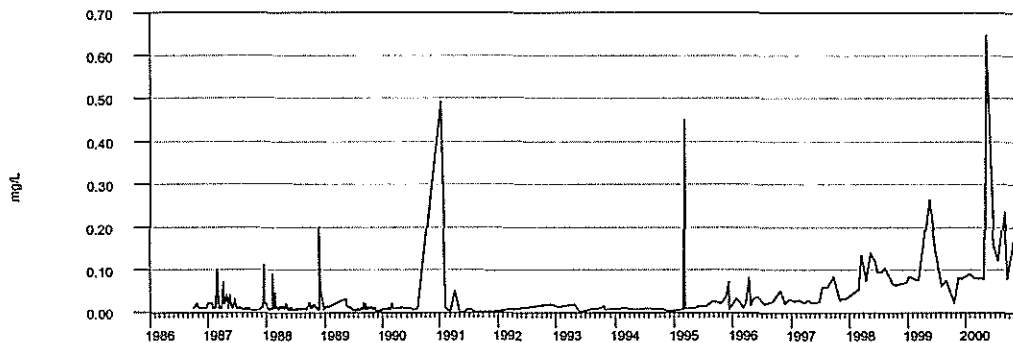
Figure 12: Faro Rock Dump Seepage (X23) Total Zinc



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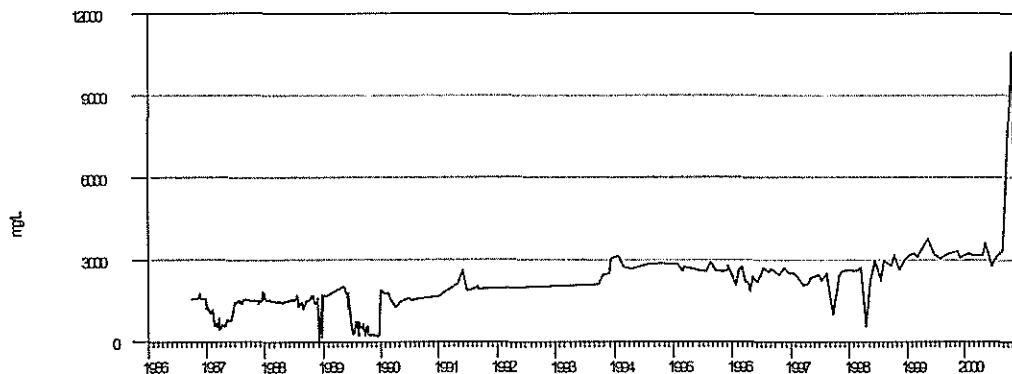
The concentration of total copper remained generally below the Licence discharge limit of 0.2 mg/L although two separate spikes exceeded this threshold in 2000. The concentration of total copper appears to have been increasing since about 1995 as illustrated on Figure 13.

Figure 13: Faro Rock Dump Seepage (X23) Total Copper



A stepped increase in the concentration of sulphate at location X23 is observed from around 1500 mg/L during the period from 1986 to 1991 to around 2500 mg/L from 1993 to 1998 as illustrated on Figure 14. This difference may be attributed to mining and, specifically, dewatering activities in the Faro Main pit. For example, the low 'troughs' in sulphate concentrations during early 1987 and second half 1989 may be related to dewatering of the Faro Main Pit, which would have resulted in some "extra" water passing location X23. An increasing trend is suggested since about 1998. The fourth quarter 2000 concentrations were the greatest concentration on record since 1986.

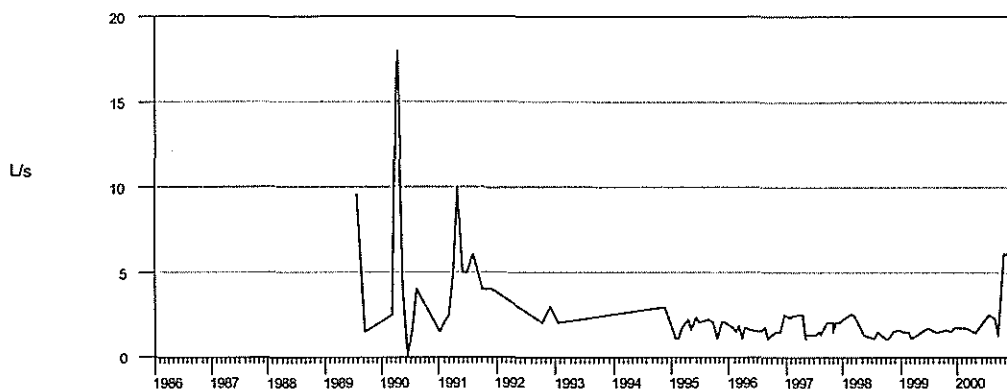
Figure 14: Faro Rock Dump Seepage (X23) Sulphate



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The available flow information for location X23 indicates that flows during the period from 1989 to 1992 were highly variable and peaks were observed as high as 17.5 L/s (litres per second) as illustrated on Figure 15. This is in sharp contrast to the flow record observed since 1994 where flows are generally consistent at around 2 to 3 L/s. The flow record may be indicating that additional sources of water (including, possibly, dewatering of the Faro Main Pit) passed location X23 prior to 1992 which are no longer present. If this indication were correct, then it would support the concept that active dewatering of the Faro Main Pit during mine operations prior to 1992 could have had the effect on zinc and sulphate concentrations described above. The higher than normal flow readings in the fourth quarter 2000 (6 Lps) correspond to record high concentrations of total zinc and sulphate, as described above. This suggests that the unusually warm and wet weather conditions that persisted into winter 2000 may have been the cause of the high concentrations. The height-volume relationship that is used for the X23 staff gauge is included in Appendix 3.

Figure 15: Faro Rock Dumps Seepage (X23) Flow



Shallow ground water seepage between the Zone II Pit and the North Fork of Rose Creek was monitored on two occasions during 2000 at piezometers BH2 and BH4. These piezometers are not included in the Licence schedule for temporary cessation of operations. Piezometer BH3 was damaged at some time in the past and is no longer operable and insufficient water was present in piezometer BH1 for sampling in 2000. The static water levels in these piezometers are below the level of Rose Creek. Piezometer BH2 is closest to the Zone II Pit and BH4 is closest to the North Fork of Rose Creek.

Water quality in piezometers BH2 and BH4 was generally similar in 2000 with the exception of pH, which was lower in BH4. This observation continues the trend towards similar water quality that was observed in 1999. Prior to about 1998, water quality in piezometer BH4 was significantly poorer than that in piezometer BH2.

The concentrations of dissolved zinc in piezometers BH2 and BH4 ranged from 7.5 mg/L to 15.0 mg/L and from 4.0 to 15.0 mg/L, respectively, in 2000 and the concentrations of sulphate ranged from 220 to 236 mg/L and from 187 to 422 mg/L, respectively. Ground water pH in piezometers BH2 and BH4 ranged from 5.4 to 5.9 and from 3.7 to 4.7, respectively, in 2000.



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The potential effects of this shallow ground water on the local surface water in the North Fork of Rose Creek is monitored at a series of surface water sampling locations (R8 through R10) that are described in a following section of this report.

3.3 Intermediate Pond (X4)

Water quality exiting the Intermediate pond is monitored at location X4, which is outflow from the pond at the outflow spillway. Outflow may be via either surface overflow or syphon. Location X4 is included in the Licence schedule for temporary cessation of operations. A total of 10 samples were collected in 2000 representing both periods of outflow (sampled per the Licence) and periods where no outflow was occurring but information was valuable to site management.

From its construction in 1980/81 to 1992, the Intermediate Impoundment was used for tailings deposition. Following the cessation of tailings deposition into the Down Valley Tailings facility in 1992 and until 1997, there was a general increase in the concentration of zinc in water flowing through the Intermediate pond. This was the anticipated trend attributed to:

- the removal of a large inflow of alkalinity that previously entered the pond via the tailings slurry,
- the continued inflow of contaminated rock dump seepage water via location X23,
- the continued flushing of contaminants by run off over beached (exposed) tailings in the upstream portion of the Intermediate Impoundment.

Water treatment in the Down Valley was started in 1992 in order to ensure that surface outflow from the Cross Valley pond met the maximum allowable discharge limits. The practice of treating outflow from the Intermediate Pond for the removal of zinc continued through 2000. The methods employed for the treatment have involved raising the pH of the Intermediate pond effluent with lime or sodium hydroxide and subsequently utilizing the Cross Valley pond for settlement of the treatment sediments. The pH modification has been accomplished at various times by:

- hauling lime slurry mixed in the mill to a gravity feed tank for addition into the outflow spillway,
- delivering lime slurry mixed in the mill to the outflow spillway via an overland pipeline,
- hauling lime slurry mixed in the Grum/Vangorda water treatment plant to the south abutment of the dam for addition into a syphon line,
- adding sodium hydroxide into a syphon line at the south abutment,
- inflow into the upstream end of the Intermediate pond of water pumped from the Faro Main pit that was pre-treated with lime at the mill.

The latter method, inflow of pre-treated water from the Faro Main pit, began in fall 1997 and continued in 2000 in conjunction with lime treatment in the outflow spillway. The Faro pit pumping/treatment program was initiated in 1997 and has been established as an annual seasonal (summer) program. In 1997 and 1998, the effluent from the Intermediate pond (location X4) became compliant (<0.5 mg/L zinc) following approximately 4 to 6 weeks of inflow of pre-treated Faro pit water and treatment of the effluent in the outflow spillway was discontinued for the remainder of the pumping/treatment program. This was as expected given the need for displacement of non-compliant water that was in the pond initially. In 1999 and 2000, the concentration of zinc in the Intermediate pond effluent (location X4) was reduced but

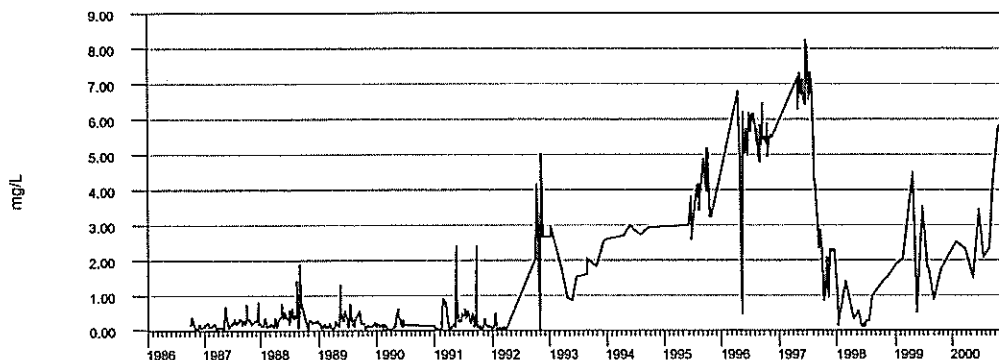
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not to the Licence limit and, therefore, treatment of the effluent in the outflow spillway was continued for the duration of the pumping/treatment program.

Concepts for an upgraded water treatment system were considered in 2000. A project was initiated at year-end that consists of the conversion of certain fixed equipment in the mill for use in water treatment. In this way, water pumped from the Faro Main pit during the seasonal (summer) pumping/treatment program will be compliant (including settlement of treatment solids) upon exiting the mill. The need for treatment of large flows of contaminated water in the Intermediate dam outflow spillway will be eliminated because the plant effluent will not be discharged into the Intermediate Pond. The requirement for water treatment at the Intermediate dam outflow spillway will be minimized to only surface runoff. The system is scheduled to be operational in 2001.

The concentrations of total and dissolved zinc at location X4 ranged from 1.5 mg/L to 6.0 mg/L and from 0.7 to 5.9 mg/L, respectively, during 2000, which were similar to the ranges observed in 1999. The long term trend in the concentration of total zinc at location X4 is illustrated on Figure 16.

Figure 16: Intermediate Pond (X4) Total Zinc

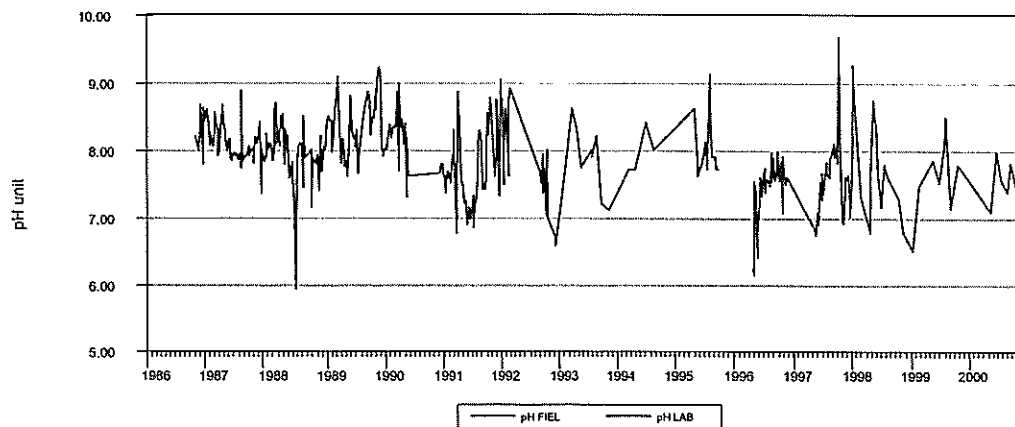


Water pH at location X4 was neutral to alkaline in 2000 (range from 7.0 to 8.0) and was influenced by the inflow of lime treated water pumped from the Faro Main pit. The long term trend in pH is illustrated on Figure 17. Precipitation or snowmelt which temporarily ponds in small isolated puddles on the surface of beached tailings in the upstream extents of the Intermediate Impoundment can be acidic.

The concentration of sulphate at location X4 ranged from 100 to 677 mg/L during 2000, which was similar to the range observed in 1999. The concentration of ammonia at location X4 during 2000 was from 0.08 to 1.4 mg/L, which was similar to the range observed in 1999. The wide variations in the concentrations of sulphate and ammonia at location X4 is attributed to the seasonal (summer) inflow of a relatively large volume of water from the Faro Main pit (location X22B) that contained average concentrations of 710 mg/L sulphate and 1.5 mg/L ammonia in 2000.



Figure 17: Intermediate Pond (X4) pH



3.4 Effluent Discharge (X5 And X13)

The two surface effluent discharge locations are surface outflow from the Cross Valley Pond (location X5) and seepage discharge at the toe of the Cross Valley Dam (location X13) and these are included in the Licence schedule for temporary cessation of operations during periods of discharge. Additional information regarding flows at these locations is described in Sections 2 and 5 of this report.

Effluent seepage discharge via location X13 was continuous through 2000 and 12 samples were collected. The significance of flow rates measured in 2000 at location X13 as regards the geotechnical performance of the Cross Valley dam is described in Section 5 of this report.

A total of 12 samples were collected from location X5 in 2000 including both periods of effluent discharge (per the Licence) and periods where no discharge was taking place but where the information was valuable to site management. The analytical data listed in Appendix 1 for location X5 includes all of the 2000 data. The data pertaining to periods of effluent discharge is distinguished from data pertaining to periods of no effluent discharge. The discussion below involves only those samples that were collected during periods of discharge, per the Licence requirement.

In addition, to the chemical analyses at an external laboratory described above, frequent in-house analyses for total zinc were performed on-site to provide site management with an immediate indication of effluent quality. This was appropriate because site-specific experience has shown that total zinc is the critical parameter for achieving compliance. The in-house analyses utilized professional level AA (atomic absorption) equipment operated by trained assayers in 2000. The analytical procedure was upgraded in 2000 under the direction of a professional chemist to closely follow the sample preparation and internal QA/QC procedures utilized at professional laboratories. In-House analyses for zinc were conducted on a routine daily basis during periods of discharge in 2000. The individual results are available at the mine site and were reviewed on a regular basis by DIAND Water Resources personnel.



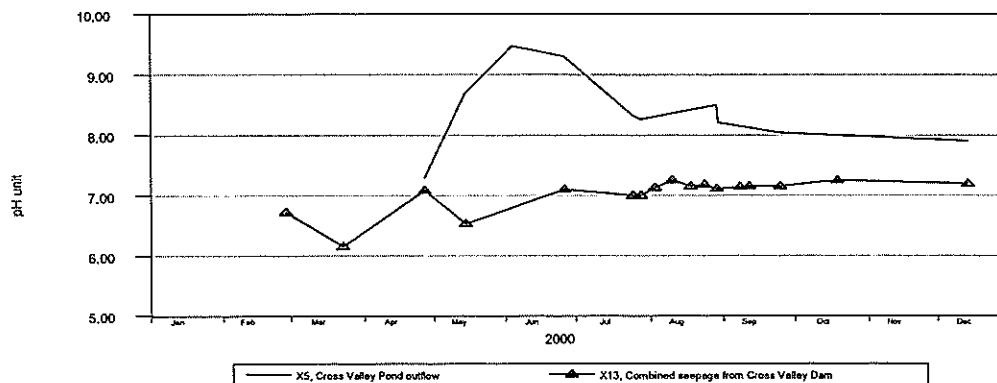
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Concepts for an upgraded water treatment system were considered in 2000. A project was initiated at year-end that consists of the conversion of certain fixed equipment in the mill for use in water treatment. In this way, water pumped from the Faro Main pit during the seasonal (summer) pumping/treatment program will be compliant (including settlement of treatment solids) upon exiting the mill. The need for treatment of large flows of contaminated water in the Intermediate dam outflow spillway will be eliminated because the plant effluent will not be discharged into the Intermediate Pond. The requirement for water treatment at the Intermediate dam outflow spillway will be minimized to only surface runoff. The system is scheduled to be operational in 2001.

All of the seven bioassay tests performed during 2000 for locations X5 and X13 were passed and all tests were non-lethal (no mortalities). There were two tests performed for location X5 during periods of effluent discharge (June and October) and one test performed for location X5 during a period of no discharge (December). Four tests were performed for location X13 (March, June, October and December). The bioassays were 96 hour LC_{50} tests using rainbow trout in which a pass is considered to be greater than 50% of the fish alive in 100% solution strength after 96 hours. All bioassay test results are included in Appendix 4.

The analytical results received for samples at locations X5 and X13 show that these discharges were within the maximum allowable discharge limits in 2000 with only rare excursions. Figures 18 and 19 show pH and total zinc, respectively, during 2000 for both location X5 and location X13.

Figure 18: 2000 Effluent (X5, X13) pH



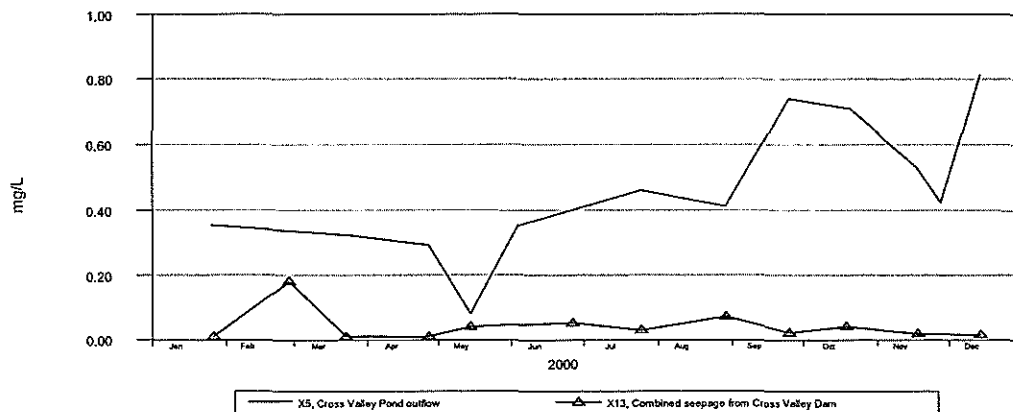
The following exceedances of the Licence discharge limits were reported for location X5 in 2000:

1. the concentration of total cyanide that was initially reported for July 25 was 0.18 mg/L, which was greater than the maximum allowable discharge limit of 0.05 mg/L; effluent discharge had ceased on July 26; follow-up samples were analysed immediately upon receipt of the initial results that returned results less than detection limit, which is typical for this location; the initial elevated concentration is thought to be related to laboratory error (as was experienced in previous years) or to sample contamination and is not considered to represent a "real" result



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Figure 19: 2000 Effluent (X5, X13) Total Zinc



NOTE: There was no effluent discharge for the following samples: Jan, Feb , Mar, Sep, Dec

- the concentration of total zinc that was initially reported for July 25 (0.59 mg/L) was greater than the maximum allowable discharge limit of 0.5 mg/L (the corresponding concentration of dissolved zinc was 0.18 mg/L); a re-check of this sample returned concentrations of total and dissolved zinc of 0.46 mg/L and 0.20 mg/L and this concentration of total zinc closely matched the in-house analysis; the re-check result was considered correct based on the correlation with the in-house analysis
- the concentration of total zinc reported for October 21 (0.71 mg/L) was greater than the maximum allowable discharge limit of 0.5 mg/L (the corresponding concentration of dissolved zinc was 0.44 mg/L); effluent discharge was suspended on that date based on the results of in-house analyses that also reported elevated concentrations
- the concentration of total zinc reported for November 18 (0.53 mg/L) was greater than the maximum allowable discharge limit of 0.5 mg/L (the corresponding concentration of dissolved zinc was 0.424 mg/L); effluent discharge was suspended on November 21 upon receipt of the laboratory results; although follow-up samples returned compliant results, effluent discharge was not resumed for the remainder of the year

The following exceedances of the Licence discharge limits were reported for location X13 in 2000:

- the pH at location X13 on March 23 was reported as 6.15, which was less than the minimum allowable discharge limit of 6.5
- the concentrations of total suspended solids at location X13 on February 28 and October 19 were 19 and 20 mg/L, respectively, which were greater than the maximum allowable discharge limit of 15 mg/L
- the concentration of total copper on February 28 was 0.666 mg/L, which was greater than the maximum allowable discharge limit of 0.2 mg/L

There are three individual seepages that report to location X13, which are locations X11, X12 and WEIR3. Location X11 is the primary seepage stream and collects seepage from the north abutment of the Cross Valley dam and is suspected to also collect some seepage from the Cross Valley dam spillway



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during periods when there is overflow from the pond. Location X12 collects seepage from the south abutment of the Cross Valley dam. Location WEIR3 collects seepage from the central area between locations X11 and X12. Flow information and the implications of the flow information as regards the geotechnical performance of the Cross Valley dam are described in Section 5 of this report.

Locations X11 and X12 are included in the Licence monitoring schedule for temporary cessation of operations and were sampled 12 times in 2000. Location WEIR3 is not included in the Licence schedule but was sampled once in 2000 to provide additional information. All analytical results are listed in Appendix 1.

Water quality at locations X11, X12 and WEIR3 was generally consistent with that at location X13 (combined seepages). Concentrations of total zinc, sulphate and ammonia are typically greatest at location X11. Water quality at location X13 most closely resembles that at contributory location X11 because of the greater proportion of flow that originates from location X11.

3.5 Rose And Anvil Creeks

3.5.1 South Fork of Rose Creek (R1)

Water quality in the South Fork of Rose Creek upstream of the pumphouse pond and downstream of the fresh water reservoir is monitored at location R1. This location is included in the Licence monitoring schedule for temporary cessation of operations only as part of the macroinvertebrate monitoring program that is conducted every second year. The macroinvertebrate program was conducted in 2000 (as described in Section 4 of this report) and two samples were collected in 2000.

A general observation made during the 2000 macroinvertebrate monitoring program was that the flow volumes in Rose Creek were extremely high in July and September as compared to previous years (described in section 4 of this report).

Water quality at location R1 is generally indicative of background water quality in the south fork area. Although there is potential for mine activities to influence water quality at the haul road crossing upstream of the fresh water reservoir, this is considered to be a small factor. The concentrations of total and dissolved zinc at location R1 ranged from 0.021 mg/L to 0.038 mg/L and from 0.017 mg/L to 0.028 mg/L, respectively, in 2000, which were similar to the ranges observed in recent years. The concentration of sulphate at location R1 ranged from 7 mg/L to 9 mg/L in 2000, which was similar to the range observed in recent years.

3.5.2 North Fork of Rose Creek (R7, FAROCR, R8, R9, R10, X2)

The potential for impacts on surface water in the North Fork of Rose Creek from the Faro Creek diversion, seepage from the Zone II Pit, and certain rock dumps is monitored at locations R7 through R10 and location X2 in the North Fork of Rose Creek. Location R7 is located upstream of the confluence with the Faro Creek diversion and is representative of background conditions in the North Fork area. Location R8 is located downstream of the confluence of the North Fork with the Faro Creek diversion (location FAROCR) and upstream of the Zone II pit area. Location R9 is located approximately adjacent to the area of the Zone II pit. Location R10 is located downstream of the Zone II pit area and upstream of the

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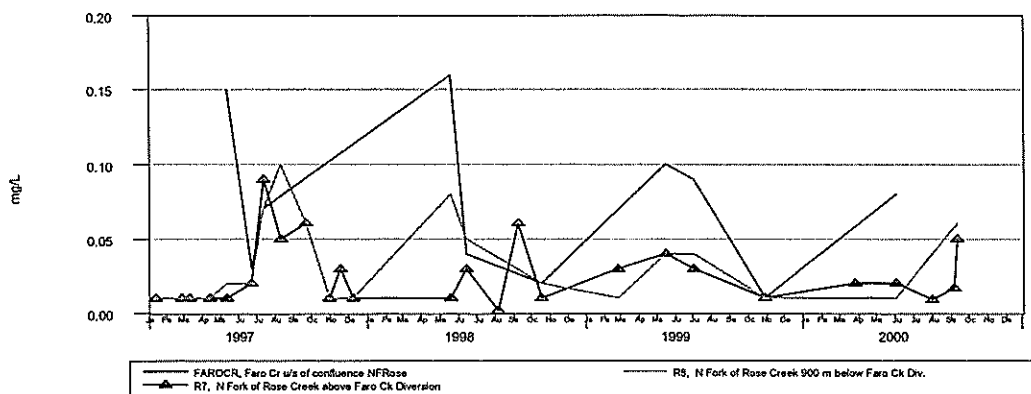
rock drain in the Vangorda ore haul road. Location X2 is located at the crossing of the mine access road downstream of the rock drain and the rock dumps. Location FAROCR is located at the mouth of the Faro Creek diversion channel where the diversion channel enters the North Fork of Rose Creek between locations R7 and R8.

Location X2 is the only one of these locations that is included in the Licence monitoring schedule for temporary cessation of operations and 12 samples were collected in 2000. Information from upstream locations R7 through R10 and FAROCR was considered important in identifying possible sources of surface water impacts and these locations were sampled from 2 to 5 times in 2000.

Water quality information for location R7 suggests that there is a natural seasonal trend in the concentration of total zinc with higher concentrations (up to approximately 0.05 mg/L) observed in the late summer/fall season. The reasons for this natural trend are not known.

A comparison of water quality at locations R7 and R8 suggests that, in 1997, 1998 and 1999, spring spikes in the concentration of total zinc in the Faro Creek diversion caused brief observable responses at location R8, as illustrated on Figure 20. Although a spring spike was also observed at location FAROCR in 2000, there was no corresponding response at location R8. This is attributed to a high dilution flow in Rose Creek. The concentrations of total zinc at locations R7, R8 and FAROCR on June 3/4, 2000 were 0.02, <0.01, and 0.08 mg/L, respectively. The concentrations of dissolved zinc at locations R7, R8 and FAROCR on June 3/4, 2000 were all <0.01 mg/L. There have been no corresponding spring peaks in the concentration of sulphate nor any corresponding spring dips in pH at location R8 as compared to location R7 from 1997 to 2000.

Figure 20: North Fork Rose Creek (R7, R8, FAROCR) Total Zinc



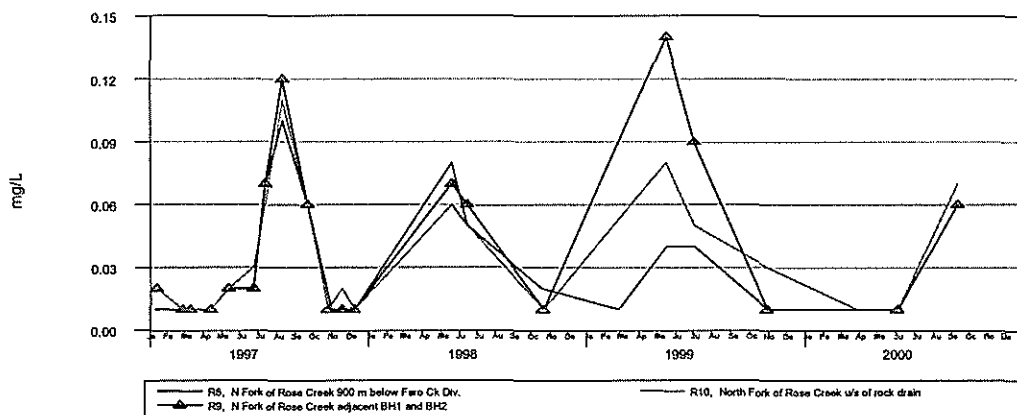
A comparison of water quality at locations R8, R9 & R10 suggests that a seasonal (spring) trend occurred in 1997 and 1999 wherein a slightly greater concentration of total zinc was observed in spring at location R9 (adjacent to Zone II area) than at upstream location R8 and at downstream location R10. This is attributed to the influence of surface run-off from the local rock dumps. This apparent trend was not repeated, however, in 1998 or 2000 for unknown reasons. Further data collection is necessary to adequately evaluate this issue.



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The concentrations of sulphate and pH at location R8, R9 and R10 were similar in 2000 although sulphate was generally slightly lower and pH was generally slightly higher at location R8 than at locations R9 or R10, as has been observed since 1997. This suggests a signature of run-off from the local rock dumps as was described above for total zinc. Recent concentrations of total zinc at locations R8, R9 and R10 are illustrated on Figure 21. The elevated concentrations of total zinc shown on Figure 21 in August 1997 and September 2000 correspond to elevated (although of slightly lower magnitude) concentrations at upstream location R7. This indicates that some portion of the cause of the elevated concentrations is due to natural events.

Figure 21: North Fork Rose Creek (R8,R9,R10) Total Zinc



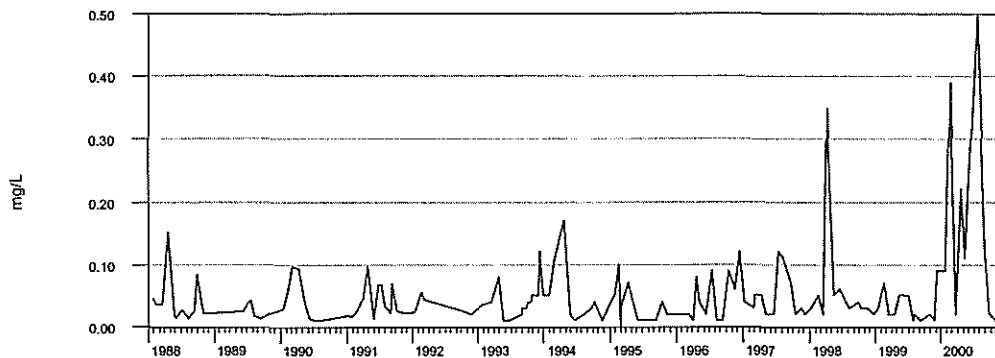
The North Fork of Rose Creek is monitored at location X2 prior to joining with the South Fork. The additional minesite influences at location X2 which may not be present at upstream location R10 are surface run off and seepage from the eastern portion of the main rock dump and the rock drain in the Vangorda ore haul road. The monitoring record for location X2 is more extensive than that for upstream locations R7 through R10.

The concentration of total zinc at location X2 has been elevated above “background” with erratic spikes since 1988 as illustrated on Figure 22. The average concentration of total zinc in 2000 (0.16 mg/L) was greater than that observed in 1999 and several high spikes in the concentration of total zinc in 2000 (up to 0.50 mg/L) were the greatest on record since 1988. The concentration of dissolved zinc in 2000, however, remained low (0.009 to 0.021 mg/L), which was similar to the range observed in 1999. The direct source(s) of total zinc to location X2 have not been clearly identified. The trend in total zinc at location X2 is generally similar to that at upstream location R10 although of typically greater magnitude at location X2. The high spikes do not appear, at this time, to be consistently seasonal in occurrence and, therefore, do not clearly indicate whether the source might be predominantly ground water or related to surface influences.



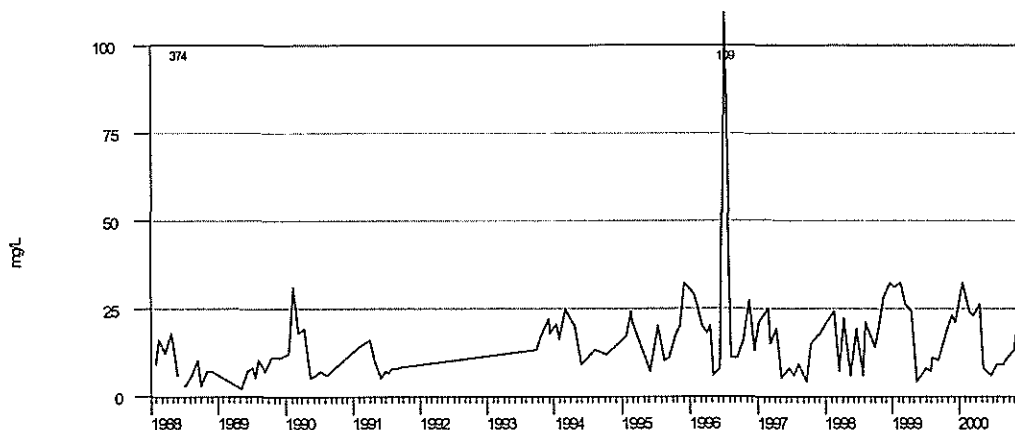
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Figure 22: North Fork Rose Creek (X2) Total Zinc



The concentration of sulphate at location X2 ranged from 6 mg/L to 32 mg/L in 2000, which was similar to the range observed in 1999. Although relatively low, the record of sulphate concentrations since 1988, as illustrated on Figure 23, displays a general seasonal trend wherein higher concentrations are observed in the winter season. This observation suggests the signature of ground water entering the creek which is masked in the summer season by higher dilution flows. One possible source for sulphate enriched ground water could be shallow ground water monitored in piezometers S1 through S3 and P96-6 (described elsewhere in this report). The trend in total zinc at location X2 is generally similar to that at upstream location R10 although of typically greater magnitude at location X2. Continued information collection is required to adequately evaluate this issue.

Figure 23: North Fork Rose Creek (X2) Sulphate



3.5.3 Rose Creek Diversion Channel (X3, X10)

Rose Creek is monitored at the upstream and downstream extents of the constructed diversion channel that passes Rose Creek around the tailings impoundments at locations X3 and X10, respectively. Although neither location X3 nor location X10 are included in the Licence monitoring schedule for temporary cessation of operations, information at these locations was considered important in assessing environmental conditions at the mine site. Therefore, 12 samples were collected at location X3 and 10 samples were collected at location X10 in 2000.

Location X3 is located at the outflow from the pumphouse pond. The water monitored at location X3 includes all flow from the South Fork of Rose Creek via the freshwater reservoir and a large portion the flow from the North Fork of Rose Creek via location X2. A small portion of the flow from the North Fork of Rose Creek (primarily during high flow events) bypasses the pumphouse pond via a secondary channel that was constructed in previous years. This "bypass" flow enters the Rose Creek diversion channel immediately downstream of the pumphouse pond.

Water chemistry at location X3 in 2000 was generally similar to that observed in recent years. The concentrations of total zinc ranged from 0.01 mg/L to 0.13 mg/L in 2000. The higher spikes observed in 2000 were greater than those observed in 1999 but within the range established since 1996. The high spikes at location X3 continued, in 2000, to correspond directly to high spikes at upstream location X2, in the North Fork of Rose Creek. The concentration of dissolved zinc at location X3 remained low in 2000 in a range from 0.008 to 0.012 mg/L. The concentration of sulphate at location X3 in 2000 ranged from 7 mg/L to 32 mg/L, which was within the range observed in recent years.

Location X10 is located near the downstream extent of the Rose Creek diversion channel adjacent to piezometer X16. Water quality at location X10 was similar to that at upstream location X3 in 2000 although the concentrations of total zinc and sulphate were slightly greater at location X10 as has been consistently observed in previous recent years. The concentrations of total and dissolved zinc at location X10 ranged from 0.011 mg/L to 0.18 mg/L and from 0.005 mg/L to 0.049 mg/L, respectively, in 2000. The peak concentration of total zinc (0.18 mg/L) is unusually high and corresponds to high spikes at upstream locations X3 and X2, although the peak at location X10 was slightly greater than at the upstream locations. The concentration of sulphate at location X10 in 2000 ranged from 10 mg/L to 47 mg/L, which was slightly greater than the range observed in 1999. The direct causes of the slight increases in the concentrations of total zinc and sulphate at location X10 have not been identified but could be related to the influences of inflows from two southern tributaries.

3.5.4 Rose Creek Immediately Downstream of Mine Discharges (X14)

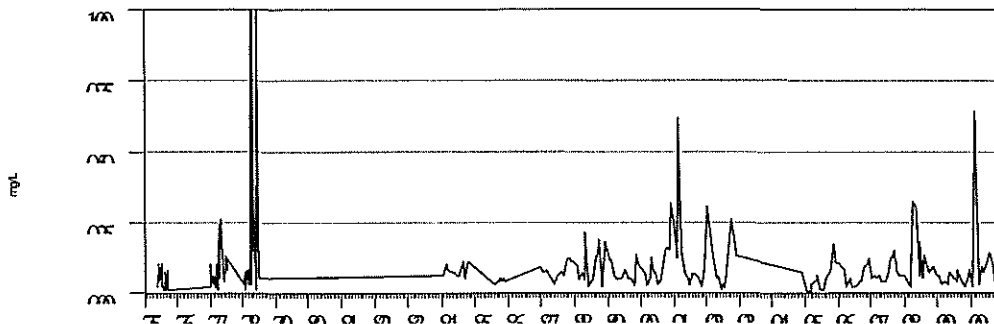
Rose Creek immediately downstream of the confluence with effluent discharges (locations X5 and X13) and downstream of the diversion channel (location X10) is monitored at location X14. Water chemistry at location X14 has typically shown the influence of effluent discharge through concentrations of sulphate, total zinc and ammonia which have been elevated in concert with periods of effluent discharge. The highest concentrations of these parameters have generally corresponded to periods of peak volume discharge from the Cross Valley Pond. Although location X14 is not included in the Licence monitoring schedule for temporary cessation of operations, information at this location was considered important for assessing the influence of effluent discharge on Rose Creek and, therefore, 12 samples were collected in 2000.

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The concentration of sulphate at location X14 ranged from 9 mg/L to 324 mg/L in 2000, which was similar to the range observed in 1999. The concentrations of total and dissolved zinc at location X14 ranged from 0.01 mg/L to 0.14 mg/L and from 0.007 mg/L to 0.081 mg/L, respectively, in 2000, which were also similar to the ranges observed in 1999. This excludes one extremely high concentration of total zinc of 0.64 mg/L that was reported for February 28, at a time when there was no effluent discharge. This high concentration is considered to be related to sample contamination and is not included in the interpretation of results. The next highest peak concentration of total zinc in 2000 (0.14 mg/L) occurred in July and corresponded to a period of effluent discharge via location X5.

The long-term trends (from 1975) for concentrations of total zinc and sulphate at location X14 are illustrated on Figures 24 and 25, respectively. The information shows a seasonal cycling prior to 1998 with higher concentrations often observed during the winter seasons. The higher winter concentrations are attributed to lower dilution flows in Rose Creek during periods of effluent discharge. Subsequent to 1998, the seasonal (summer) discharge program related to pumping from the Faro Main pit was established and there was generally no effluent discharge (via location X5) during the winter season. The long term information also illustrates several significant isolated events over the history of the mine operation including a tailings spill in the mid-1970's.

Figure 24: Rose Creek Immediately Downstream of Mine Site (X14) Total Zinc



NOTE: concentration of 0.64 mg/L at X14 shown for Feb/2001 is considered due to sample contamination and is not included in interpretation.

The concentration of ammonia at location X14 ranged from 0.05 mg/L to 0.95 mg/L in 2000. These levels of total ammonia are within the Canadian Water Quality Guidelines for the protection of Freshwater Aquatic Life as reproduced in Table 3. The Guidelines show that the lowest recommended limit for Rose Creek in the course of a typical year would be approximately 1.33 mg/L for pH about 8 and temperature about 15°C. The guidelines take into consideration the effects of temperature and pH on the toxicity and proportion of un-ionized ammonia.

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Figure 25: Rose Creek Immediately Downstream of Mine Site (X14) Sulphate

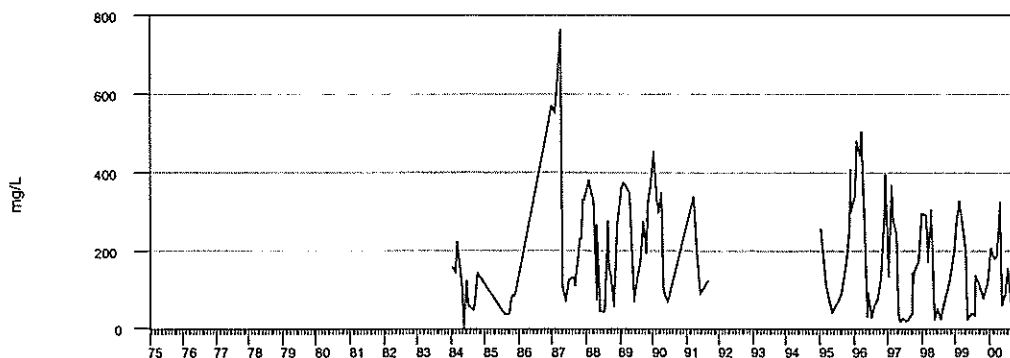


Table 3: Recommended Guidelines For Total Ammonia (NH₃) in mg/L

pH	0 °C	5 °C	10 °C	15 °C	20 °C	25 °C	30 °C
6.50	2.5	2.4	2.2	2.2	1.49	1.04	0.73
6.75	2.5	2.4	2.2	2.2	1.49	1.04	0.73
7.00	2.5	2.4	2.2	2.2	1.49	1.04	0.74
7.25	2.5	2.4	2.2	2.2	1.50	1.04	0.74
7.50	2.5	2.4	2.2	2.2	1.50	1.05	0.74
7.75	2.3	2.2	2.1	2.0	1.40	0.99	0.71
8.00	1.53	1.44	1.37	1.33	0.93	0.66	0.47
8.25	0.87	0.82	0.78	0.76	0.54	0.39	0.28
8.50	0.49	0.47	0.45	0.44	0.32	0.23	0.17
8.75	0.28	0.27	0.26	0.27	0.19	0.16	0.11
9.00	0.16	0.16	0.16	0.16	0.13	0.10	0.08

Source: Canadian Council of Ministers of the Environment, 1999, 1987

3.5.5 Rose Creek to Anvil Creek / Anvil Creek (R2, R3, R4, R5, R6)

Locations R2 through R6 are included in the Licence monitoring schedule for temporary cessation of operations only as part of the macroinvertebrate monitoring program that is conducted every second year. The macroinvertebrate program was conducted in 2000 (as described in Section 4 of this report) and two samples were collected at each of locations R2, R3, R5 and R6. Only one sample was collected at location R4 in 2000.

A general observation made during the 2000 macroinvertebrate monitoring program was that the flow volumes in Rose Creek were extremely high July and September as compared to previous years (described in section 4 of this report).

Location R2 approximately coincides with routine monitoring location X14 in Rose Creek below the effluent mixing zone. Location R2 is approximately 100 metres downstream from location X14 with no significant surface inflows in between. Location R3 is in Rose Creek approximately mid-distance from



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location R2 to the mouth of Rose Creek at the confluence with Anvil Creek. Location R4 is at the mouth of Rose Creek approximately 26 km downstream of the tailings impoundments. Location R5 is in Anvil Creek downstream of the confluence with Rose Creek. Location R6 is in Anvil Creek upstream of the confluence with Rose Creek and is representative of background conditions in the Anvil Creek area.

The concentrations of total zinc and sulphate at these locations in Rose Creek have displayed the generally anticipated trend since 1996. That is:

- concentrations are typically greatest at location R2 and typically decrease to downstream locations R3 and R4 due to dilution
- concentrations at R4 are typically greater than at R6 reflecting the signature of effluent discharge
- concentrations at R5 are typically between those at R4 and R6 reflecting the mixing of Rose and Anvil Creeks

The trends described above are illustrated by 2000 data as listed in Table 4.

Table 4: Total Zinc and Sulphate Concentrations in Rose Creek on July 31/August 1, 2000

Location	Total Zinc (mg/L)	Sulphate (mg/L)
R2 (near mine)	0.039	83
R3 (mid-Rose Ck)	0.039	76
R4 (mouth Rose Ck)	0.029	69
R6 (Anvil Ck u/s Rose Ck)	0.0035	15
R5 (Anvil Ck d/s Rose Ck)	0.007	20

3.6 Rose Creek Valley Ground Water Quality

Ground water within the tailings and in the aquifer underlying and downstream of the Down Valley tailings impoundments was monitored during 2000 at piezometers X16 through X19, X21-96, X24-96, and X25-96. The “-96” label indicates that these piezometers were installed in 1996 as replacements for previously destroyed installations. These ground water monitoring locations are illustrated on Figure 2.

Piezometers X16, X17, X18, X21, X24 and X25 are included in the Licence schedule for temporary cessation of operations, as is piezometer X20. However, piezometer X20 has not been located in the field and is assumed to be destroyed. Piezometer X19 is not included in the schedule but has been sampled in conjunction with the other piezometers in order to provide a complete data set. Two suites of samples (spring and fall) were collected in 2000.

Piezometers X21-96 (three installations) are located at the toe of the Second tailings impoundment and provide information within and immediately underlying the tailings mass. Piezometer X21A-96 is installed in the tailings mass and is used for static water level measurements and is not equipped with a sampler. Piezometers X21B-96 and X21C-96 are installed in the underlying aquifer with X21C-96 at the greatest depth.

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The concentrations of dissolved zinc were similar in piezometers X21B-96 and X21C-96 in 2000 and were low ranging from <0.01 mg/L in the spring to 0.02 mg/L and 0.03 mg/L, respectively, in the fall. The concentrations of sulphate displayed a different trend, however, wherein the concentrations were lower at depth (X21C-96). The spring/fall 2000 concentrations of sulphate were 386/158 mg/L and 11/53 mg/L in piezometers X21B-96 and X21C-96, respectively. These observations regarding dissolved zinc and sulphate in 2000 are similar to the trends observed since 1996. Concentrations of dissolved zinc and sulphate for piezometers X21B-96 and X21C-96 are illustrated on Figures 26 and 27, respectively. The causes of the isolated spikes in the concentration of dissolved zinc in piezometers X21B-96 and X21C-96 in spring 1997 and the spike in the concentration of sulphate in X21C-96 in fall 1999 are unknown.

Figure 26: Ground Water (X21B-96, X21C-96) Dissolved Zinc

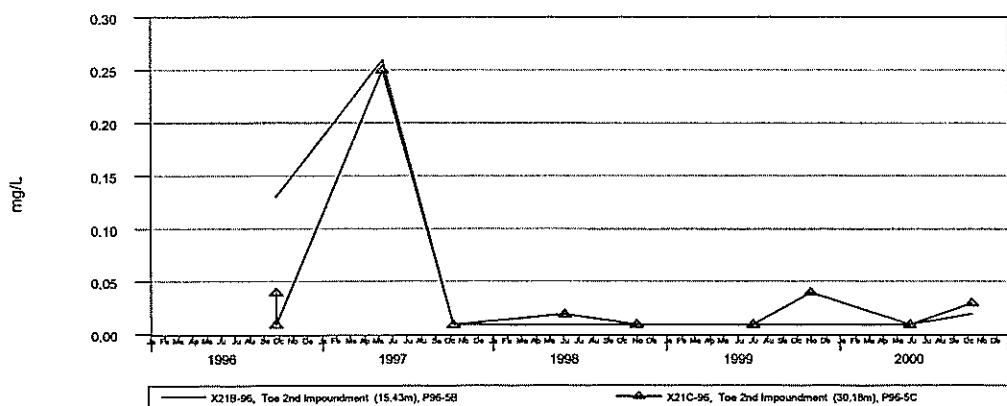
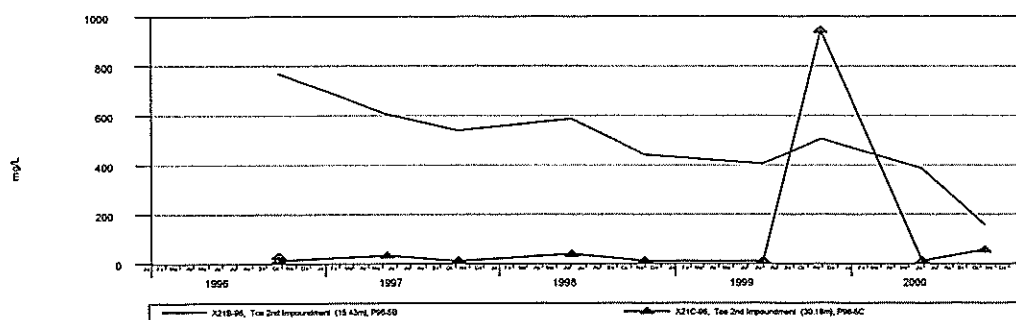


Figure 27: Ground Water (X21B-96, X21C-96) Sulphate



Piezometers X24-96 (four installations) and X25-96 (two installations) are located at the toe of the Intermediate dam and are installed at various depths up to 28 metres into the aquifer. X24 is located near the northern extent of the toe and X25 is located near the north-south centre of the dam. Piezometer X24B-96 is used to measure static water levels and is not equipped with a sampler. Ground water chemistry in these piezometers has generally been characterized by neutral pH, moderately elevated sulphate concentration and generally low dissolved zinc concentrations with occasional spikes.



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The concentrations of dissolved zinc and sulphate for locations X24-96 and X25-96 are illustrated on Figures 28 through 31. The high spikes in dissolved zinc that occurred in both piezometer nests in spring 2000 were not accompanied by corresponding spikes in the concentration of sulphate. A slight increasing trend with depth continued, in 2000, in both piezometer nests. Ground water quality in the X24 piezometers continued to be slightly poorer, in 2000, than that in the X25 piezometers. The causes of the isolated spike in the concentration of dissolved zinc in piezometers X24A-96 in January 1997 and of the atypical low concentration of sulphate in piezometer X24C-96 in fall 1999 are unknown.

Figure 28: Ground Water (X24A-96, X24C-96, X24D-96) Dissolved Zinc

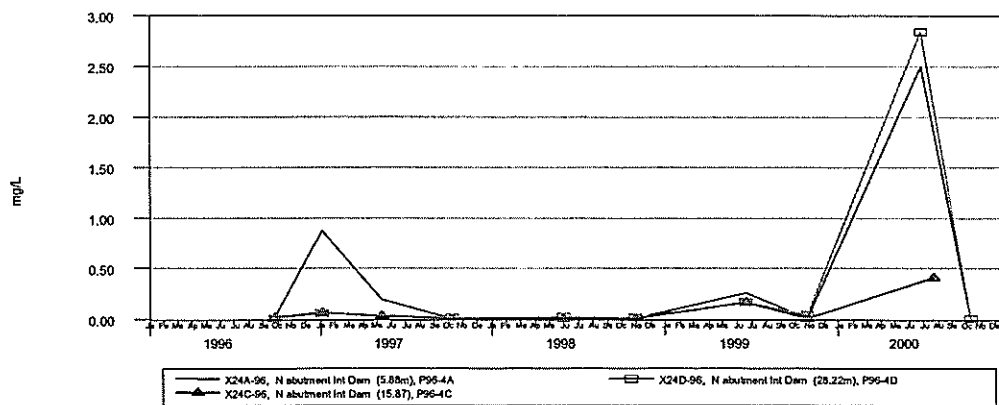
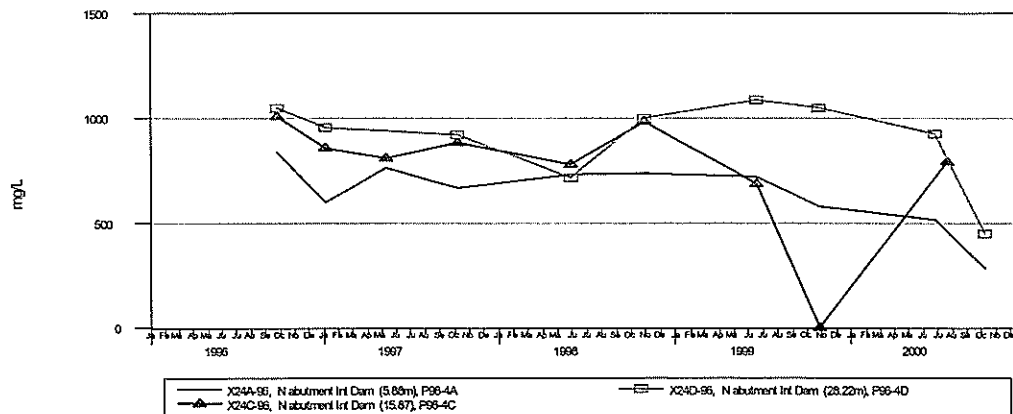


Figure 29: Ground Water (X24A-96, X24C-96, X24D-96) Sulphate



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Figure 30: Ground Water (X25A-96, X25B-96) Dissolved Zinc

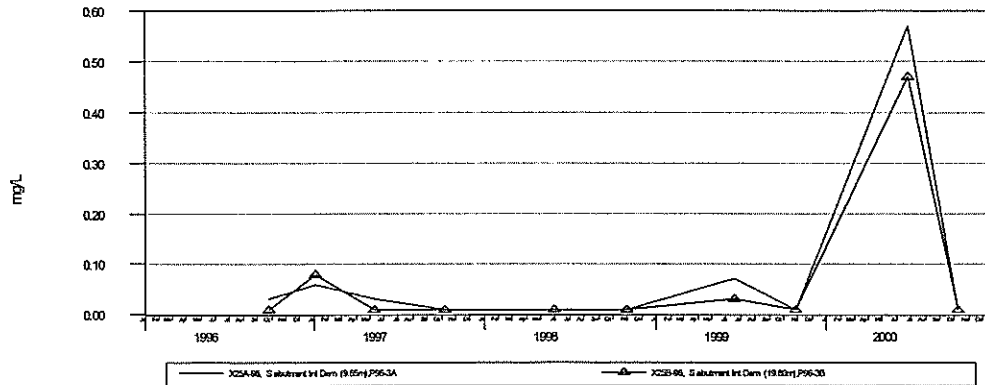
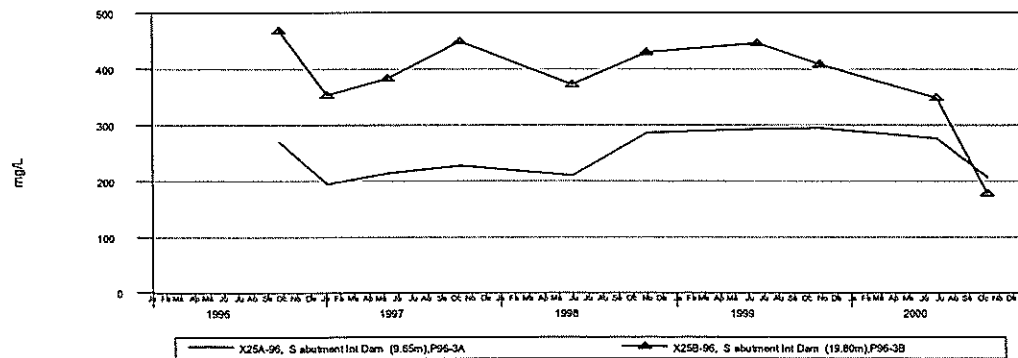


Figure 31: Ground Water (X25A-96, X25B-96) Sulphate



Piezometers X16, X17 and X19 (two installations each) are located downstream of the Cross Valley Dam. Ground water chemistry data from regular monitoring is available since 1987 and one data set is available from 1981. Piezometers X16, X17 and X19 form a crude line along the valley bottom with X19 closest to the Cross Valley dam and X16 farthest. Concentrations of dissolved zinc and sulphate are illustrated on Figures 32 to 37.

Elevated concentrations of dissolved zinc were reported in spring 1999 for the shallow and deep installations at X19 and X17 but these were not accompanied by a corresponding elevated concentration at downstream location X16. However, the elevated concentration of dissolved zinc that was reported in spring 2000 for the shallow installation at X16 may be related to the 1999 "event". Alternately, the elevated concentration of dissolved zinc in spring 2000 for the shallow installation at X16 may be related to corresponding elevated concentrations at upstream locations X19 (shallow), X24-96 and X25-96.

The trends in ground water quality are generally similar in the X16 and X17 piezometers in contrast to different trends that have been observed in X19 piezometers. Both the X16 and X17 piezometers



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displayed an increasing trend for dissolved zinc and sulphate in 2000 that was not observed at the other, upstream, location.

Figure 32: Ground Water (X16A, X16B) Dissolved Zinc

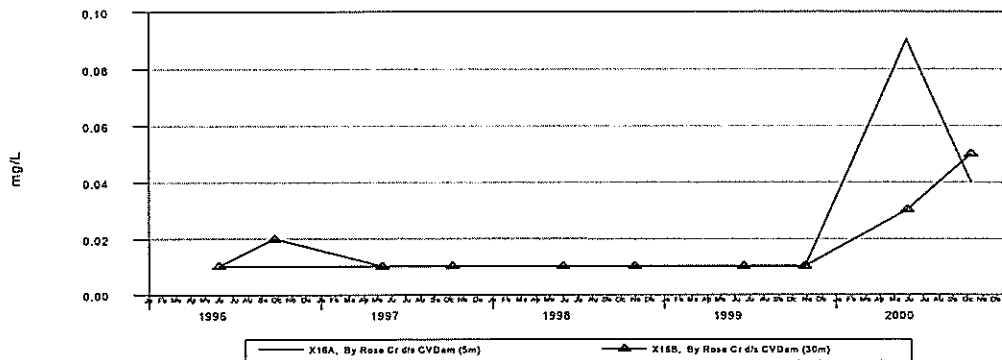


Figure 33: Ground Water (X16A, X16B) Sulphate

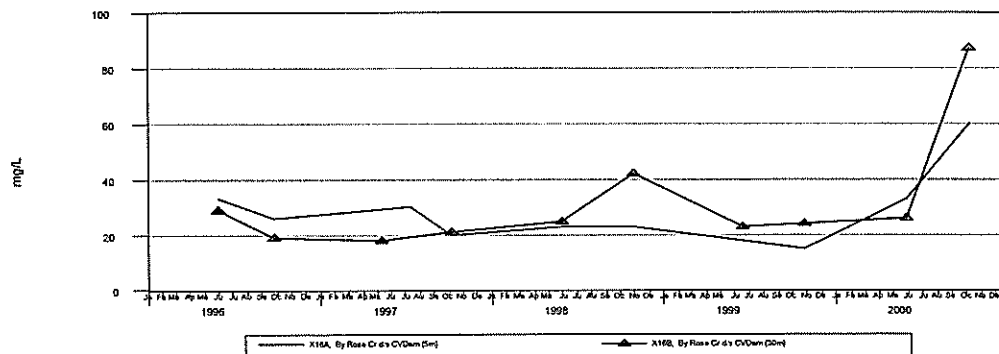
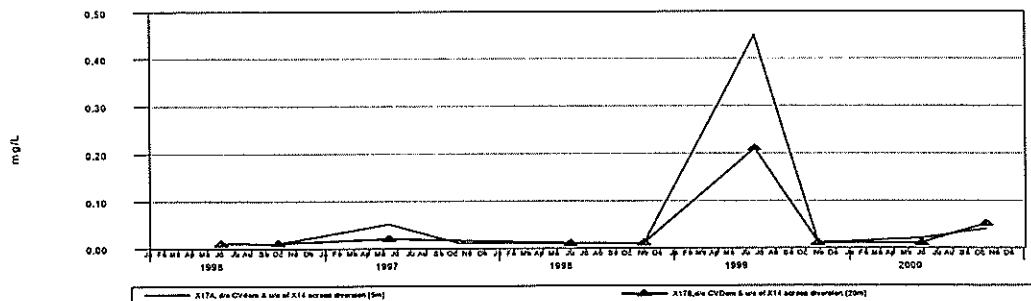


Figure 34: Ground Water (X17A, X17B) Dissolved Zinc



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Figure 35: Ground Water (X17A, X17B) Sulphate

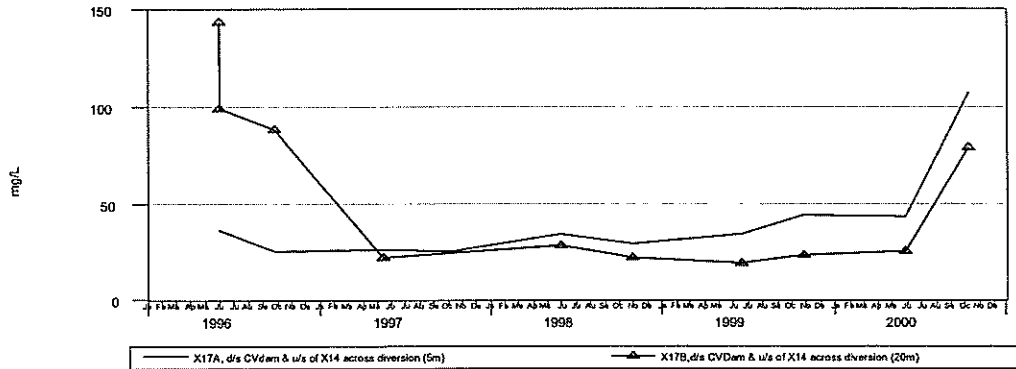


Figure 36: Ground Water (X19A, X19B) Dissolved Zinc

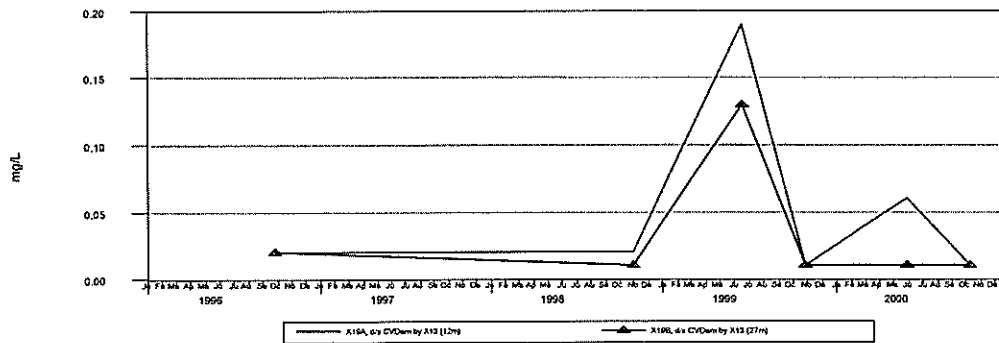
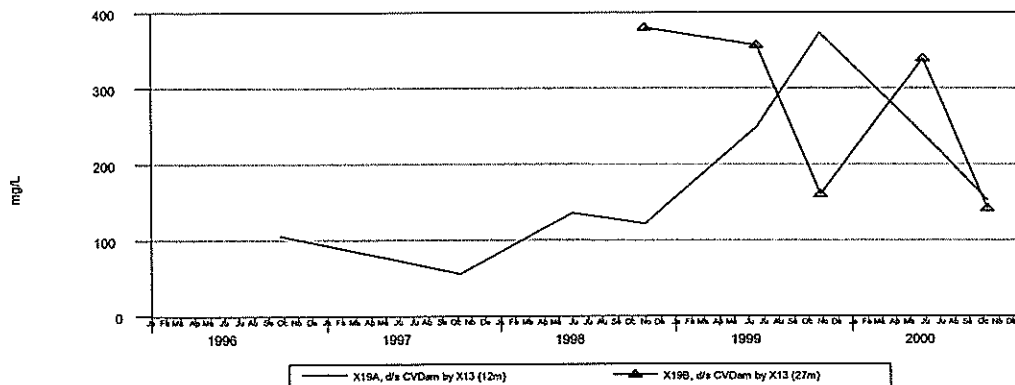


Figure 37: Ground Water (X19A, X19B) Sulphate



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Piezometer X18 is located on the north side of the Rose Creek Valley centreline roughly downstream of the Cross Valley Dam. The off-centre location of this piezometer adds some uncertainty regarding the interpretation of the ground water information. In general, the concentrations of sulphate observed in the X18 piezometers has been greater than that observed in the other downstream piezometers (X16, X17 and X19). The source of the sulphate has not been identified but may be related to either or a combination of "natural" ground water flow from the north side of the Rose Creek valley or ground water flow along the valley below the tailings impoundments. The trends for dissolved zinc and sulphate in the X18 piezometers are not similar to those in the other downstream piezometers.

4. Biological Monitoring (Schedule 'B')

The biological monitoring program described under Schedule 'B' of the Licence is required to be performed every second year and was performed in 2000 as a follow-up to the 1998 program. The program was performed by Laberge Environmental Services (LES) of Whitehorse, who have performed this task exclusively in the past. The full report as prepared by LES is included as Appendix 5. The information is summarized below.

The sampling locations used in the macroinvertebrate program coincide with surface water monitoring locations R1 through R7 as described in Section 3 of this report. Location R2, immediately downstream of the tailings impoundments is representative of the most "impacted" location with respect to the aquatic environment.

The creek flows that were experienced during the two field trips required for the 2000 macroinvertebrate program were much higher than "normal". The monthly precipitation for August and September 2000 were reported to be 255% and 276%, respectively, by LES. The high flows influenced the monitoring program by preventing retrieval of the colonization baskets at one location and by, possibly, causing the loss of some material during retrieval of the colonization baskets at another location.

The abundance and diversity of species at all of the monitoring locations was excellent in 2000 as compared to 12 years of monitoring data at these same locations. LES made the following observations from the data:

- there was good representation of pollution sensitive species at all locations in 2000 and the populations appeared to be healthy and diverse
- abundance in 2000 was greater than or close to the high levels observed in 1998 at most locations even though the growth conditions were considered to be very good in 1998 but less favourable in 2000
- the dominant order has shifted at each location over time; of particular interest was a shift, from 1992 to 2000, to shared dominance with a pollution sensitive order at the most impacted location, R2

5. Geotechnical Monitoring (Schedule 'C')

The geotechnical monitoring program described under Schedule 'C' of the Licence was performed in 2000 by BGC Engineering Inc. (BGC). The full report prepared by BGC accompanies this report under separate cover. The geotechnical instrumentation installed in and around the Rose Creek Diversion Canal, the Intermediate Dam, the Cross Valley Dam and the Freshwater Dam was monitored by Anvil Range Mining Corp. personnel. The raw data and an interpretation of the data are included in the BGC report.

A "field memo", dated September 25, 2000, was prepared by Mr. Jim Cassie, P.Eng., of BGC immediately following his September 2000 site inspection that lists the most important observations and recommendations resulting from the inspection. The field memo is included in Appendix 6 of this report and the introductory comments state "Nothing of a critical nature was noted and the following comments relate to routine maintenance requirements.". A summary of the recommendations in the field inspection memo is as follows:

- perform maintenance work on Rose Creek diversion canal dyke and backslope,
- perform maintenance work on Intermediate dam (additional rip rap near north end),
- upgrade North Wall interceptor ditch dyke in two locations,
- perform maintenance work on various trenches, weirs and culverts,
- monitor water level in the pond upstream of the rock drain,
- remove vegetation from the crest of the fresh water supply dam,
- fill cracks on the crest of the fresh water supply dam,
- inspect lower level pipe in the Freshwater dam,
- re-direct surface run off away from the south abutment of the fresh water supply dam,
- conduct regular inspections of the facilities,

Several of the recommendations presented in the 2000 field memo or in previous geotechnical inspection reports were acted on in 2000 as follows and some of these tasks are described in more detail in Section 7 of this report:

- as a follow-up to the 1999 attempted inspection of the low level outlet pipe in the fresh water supply dam, design drawings for the dam were located which showed the location and layout of the low level outlet pipe,
- the containment dyke at one corner near mid-length along the North Wall Interceptor Ditch was upgraded according to BGC recommendations,
- upgrade work at the upper section of the containment dyke for the North Wall Interceptor Ditch was initiated but discontinued due to unfavorable weather (this work is scheduled for completion in 2001),
- small soil depressions at the collars of some instrumentation pipes in dams were filled with bentonite to prevent ingress of water,
- surface run off in the vicinity of the south abutment of the fresh water supply dam was directed away from the toe area,
- regular site inspections were performed and documented including monitoring of dam seepages and the inspection logbook was reviewed by BGC during their site inspection in September 2000,
- a photo record of the water level in the pond upstream of the rock drain was collected per the requirements of the Licence and was reviewed by BGC.

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BGC presented their observations, conclusions and recommendations resulting from the field inspection and interpretation of instrumentation data in their report. Although the physical structures that were inspected appeared to be functioning acceptably well (with the exception of the Fresh Water Supply Dam described below), some maintenance work was recommended.

The condition of the Fresh Water Supply Dam (FWSD) deteriorated further in 2000. The following actions were taken in response to the observed deterioration:

- monitoring of piezometric pressures was increased to weekly from August to freeze-up with results forwarded to BGC for interpretation
- a report that presented a comparative evaluation of remediation options for the FWSD was prepared by Gartner Lee Limited and BGC in October 2000 that provided a professional assessment of the current physical stability of the dam (report is in draft form undergoing finalization)
- a schedule for lowering the water level in the reservoir over the winter 2000/2001 season was developed and initiated in consultation with BGC as a means of reducing water pressures acting on the dam
- recommendations were made by BGC that would reduce risks of further deterioration in the short term while longer term management plans are being finalized

Other key recommendations that were made by BGC are summarized as follows:

- perform maintenance on the Rose Creek Diversion Canal dyke crest, backslope and weirs
- upgrade rip rap on the north end of the Intermediate Dam
- complete upgrading to the North Wall Interceptor Ditch containment dyke per previous recommendations
- clean out the X12 weir and culvert
- fill in several old test pits on the Faro rock dumps
- consider installing new instrumentation in several important locations where old installations are inoperable
- seal old and inoperable instrumentation pipes in dams to prevent ingress of water
- fill cracks on the FWSD crest with soil/bentonite to prevent further deterioration over the short term
- remove significant vegetation from the FWSD crest
- perform a routine (monthly) inspection program
- consider installation of automatic dataloggers or other remote monitoring devices for critical instrumentation

6. Closure Monitoring (Schedule 'D')

6.1 2000 Surface Seep Survey

A surface sampling campaign was performed in 2000 as continuation of the seep surveys which were performed in previous years. The sampling locations are illustrated on Figure 2 and included Faro Creek Diversion, North Fork of Rose Creek, old Faro Creek channel above the Main pit, Upper Guardhouse Creek and seepage towards the North Fork of Rose Creek. The analytical results are included in Appendix 7.

The following general observations were made from the 2000 surface water chemistry data:

1. water quality continues to show significant deterioration upon passage through the Faro Valley rock dump (locations FCO to A30) exhibiting substantial increases in the concentrations of total zinc and sulphate accompanied by lower pH (pH<3 at location A30).
2. the concentrations of dissolved zinc and sulphate along the length of the Faro Creek diversion in June 2000 did not continue the increasing trend that was observed in May 1999; however, the concentration of total zinc did increase slightly in June 2000 from <0.01 mg/L at location FDU (above the Faro Valley rock dump) to 0.04 mg/L at location FCD (adjacent to the NE rock dumps) to 0.08 mg/L at location FAROCR (above the confluence with the North Fork of Rose Creek).
3. water quality at two small intermittent surface flows below the north east rock dumps (locations NE1, and NE2) in June 2000 did not show elevated concentrations of total or dissolved zinc as were observed in May 1999; the concentration of sulphate at location NE1 in June 2000 was 128 mg/L, which was within the range observed since 1996; the concentration of sulphate at location NE2 in June 2000 was 791 mg/L, which was slightly greater than the range observed since 1996.
4. water chemistry upstream and downstream of the Vangorda haul road rock drain (locations NF1 and NF2) showed that the rock drain was not impacting on surface water chemistry in July 2000; the concentrations of total suspended solids were very low in July 2000 at less than 2 mg/L at both locations; the concentrations of total zinc increased slightly from 0.03 mg/L on the upstream side (NF1) to 0.05 mg/L on the downstream side (NF2); the high concentration of dissolved zinc that is reported for location NF1 in July 2000 (0.35 mg/L per Appendix 7) is considered, at this time, to be due to sample contamination and is not included in the interpretation of results.
5. water chemistry at location SP5-6 (intermittent surface flow from the north east rock dumps which reports to the main pit) in June 2000 was similar to that observed since 1996 although the concentration of sulphate in June 2000 was slightly greater than the observed range; the concentrations of total zinc, dissolved zinc and sulphate in June 2000 were 7.1 mg/L, 0.5 mg/L and 973 mg/L, respectively, with pH of 7.5.
6. water chemistry for locations W10 and W8 in Upper Guardhouse Creek showed that water quality was not significantly affected by passage through a corner of the north west rock dump in June 2000; from location W10 to location W8, pH decreased slightly from 7.9 to 7.2, the concentration of total zinc increased slightly from <0.01 to 0.02 mg/L, the concentration of dissolved zinc remained at <0.01 mg/L, and the concentrations of sulphate were low at 3 mg/L and 4 mg/L.
7. water quality at the small seepage that discharges to surface below the access road and the emergency tailings discharge area (location X7) showed poor water quality in July 2000, as expected, at neutral pH; the concentration of total zinc, dissolved zinc and sulphate were 184 mg/L, 181 mg/L and 4289 mg/L, respectively, at pH of 5.8

6.2 2000 Ground Water Seep Monitoring

Selected piezometers around the Faro site were monitored during 2000 as a continuation of the ground water surveys performed in previous years. The analytical results are included in Appendix 2 and the piezometer locations are illustrated on Figure 2. The ground water chemistry in some of these piezometers which are referenced in Part B or Schedule A of the Licence is described in Section 3 of this report. Specifically, the 'X' series piezometers in the Down Valley and the 1990 'BH' series piezometers (BH1, BH2 and BH4) are described in Section 3 of this report.

Ground water seepage at the toe of the northeast rock dump above the North Fork of Rose Creek was monitored on two occasions in 2000 at piezometers BH12, BH13 and BH14 (two installations each with one installation at BH13 blocked/inaccessible). The concentrations of sulphate at these piezometers remained within or close to the range observed since 1994 with a range in 2000 from 257 to 958 mg/L. The concentrations of dissolved zinc in these piezometers in fall (October) 2000 remained within the range observed since 1994 at equal to or less than 0.07 mg/L. However, a spike in the concentration of dissolved zinc was observed in spring (June) 2000 with concentrations ranging from 0.05 to 0.71 mg/L. The spring 2000 spikes at piezometers BH12A, BH12B and BH14A (shallow) were the greatest concentrations of dissolved zinc on record since 1994. Ground water pH remained neutral in 2000 in a range from 6.5 to 7.8. The potential impact of this ground water flow on surface water was monitored at surface locations R8 and R9 as described in Section 3 of this report.

Lateral ground water seepage from the main and intermediate rock dumps towards the North Fork of Rose Creek was monitored on two occasions in 2000 at piezometer P96-6 (one installation) located immediately above the Vangorda haul road. The concentrations of sulphate were 207 mg/L and 397 mg/L in spring and fall 2000, respectively, which were within the range observed since 1996. The concentrations of dissolved zinc were 2.8 mg/L and 0.1 mg/L in spring and fall 2000, respectively. The elevated spring 2000 concentration of dissolved zinc was the greatest on record since 1996 as was described above for piezometers BH12 and BH14. Ground water pH at P96-6 remained neutral in 2000 at 6.2 and 6.0 in spring and fall, respectively. The potential impact of this ground water flow on surface water was monitored at surface locations R10 and X2 as described in Section 3 of this report.

Lateral ground water seepage from the main and intermediate rock dumps towards the North Fork of Rose Creek was also monitored immediately below the Vangorda haul road at piezometers S1 (two installations), S2 (two installations) and S3 (one installation) on two occasions in 2000. The concentrations of sulphate ranged from 351 mg/L to 2530 mg/L in 2000, which were within the ranges observed at these locations since 1996. The shallow installations generally showed greater concentrations of sulphate in 2000 than did the deeper installations. The concentrations of dissolved zinc ranged from 0.04 mg/L to 1.25 mg/L in 2000, which were within or close to the ranges observed at these locations since 1996 with the exception of piezometer S1A (shallow) which showed a spring 2000 peak concentration that was the greatest concentration on record since 1996. All of these installations except S1B (deep) showed a spring peak in 2000. A seasonal trend with a spring peak in concentration of dissolved zinc was suggested in recent years and became more apparent in 2000. Ground water pH at these locations remained neutral in 2000 with a range from 5.6 to 6.6. The potential impact of this ground water flow on surface water was monitored at surface locations R10 and X2 as described in Section 3 of this report.

Ground water seepage from the central portion of the main and intermediate rock dumps was monitored close to the toe of the dumps at piezometer P96-7 (one installation) on one occasion in 2000. The

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concentrations of sulphate and dissolved zinc at this location in October 2000 were 720 mg/L and <0.01 mg/L, respectively, which were within the ranges observed since 1996. Ground water pH at this location remained neutral in October 2000 at 7.0.

Ground water that is assumed to include seepage from the majority of the main and intermediate rock dumps and, possibly, other rock dumps, was monitored on two occasions in 2000 at piezometer P96-8 (two installations) located near the old Faro Creek channel and near surface monitoring location X23. Ground water at this location is of poorer quality than at other locations due to the concentration of seepage flow in the old Faro Creek channel. The concentrations of sulphate ranged from 1340 mg/L to 3714 mg/L in 2000. The sulphate concentrations in the shallow ("A") installation were within the range observed since 1996 but the sulphate concentrations in the deep ("B") installation have been generally increasing since 1998. The concentrations of dissolved zinc ranged from 6.3 mg/L to 36 mg/L in 2000. The concentrations of dissolved zinc in both installations in fall (October) 2000 were the greatest on record since 1996. Further information collection is required to determine whether an increasing trend is developing. Ground water pH remained neutral in 2000 in a range from 5.9 to 6.7.

7. Site Maintenance

7.1 Glaciation

Glaciation in the Rose Creek Diversion Canal was monitored on a daily basis through spring breakup in 2000. No active intervention was necessary.

Ice was cleared from the Faro Creek diversion channel in February in the vicinity of the sharp corner near the Faro Valley rock dump as a means of preventing an overflow of water during freshet.

Various culverts and ditches around the mine site and along the mine access road and some on-site roads were steamed out and/or had ice dug out in spring as is customary practice in order to ensure that spring run off water was appropriately channeled.

7.2 North Wall Interceptor Ditch

The containment dyke for the North Wall Interceptor ditch was upgraded at one location in 2000. The location was at a turn in the diversion near the Intermediate Dam access road. The work involved: scarifying the existing dyke and ground surface in preparation for upgrading and placement of locally available soil including compaction with a mobile compactor such that the height and width of the dyke were restored to design configuration. This work was a recommendation of the 1999 annual geotechnical engineering inspection. The work was performed and supervised by Anvil Range Mining Corp. (Interim Receivership) personnel with assistance from Gartner Lee Limited and BGC Engineering Inc. staff. The work was inspected by Mr. Jim Cassie, P. Eng., of BGC in September 2000 during his annual site inspection (as described in Section 5 of this report).

Similar upgrading work was also recommended for the upper section of the containment dyke near the heavy equipment maintenance shops and this work was initiated in 2000. However, unfavorable (wet) weather conditions and unusually heavy rainfall during the summer months prevented the successful completion of the work because the soil was too wet to be adequately compacted. This work is scheduled for completion in 2001.

7.3 Removal of PCB's

The comprehensive site inventory of PCB's that was initiated in 1999 was completed in 2000. Access Mining Consultants Ltd. of Whitehorse completed a ground survey of PCB's and a local electrical contractor completed sampling of pole-mounted transformers. Only one pole-mounted transformer was found to contain greater than 50 ppb PCB (the regulatory threshold) and this transformer was removed from service.

All PCB containing equipment that was contained in the on-site storage container, plus the one PCB-containing electrical transformer were shipped off-site in September 2000. This service was provided by Northcan Environmental, a local contractor who is experienced with this work and who was in possession

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of the appropriate Licences and permits. The work was communicated to Environment Canada, Environmental Protection Branch in Whitehorse, as appropriate.

7.4 Management of Used Oil

Work was performed in 2000 to reduce the risks associated with the significant accumulation of used oil on-site and to prepare the used oil for handling for disposal. Used oil in individual 45-gallon drums was pumped into one large tank. It was found that approximately 500 older drums could not be lifted because the bottoms were no longer secure and, therefore, the contents were pumped. The empty drums were crushed and landfilled on-site following cleaning/burning.

Several used oil storage tanks that remained at various locations around the mine sites (Faro and Vangorda Plateau) were consolidated at the mill in 2000. There were no known quantities of used oil on the mine property that had not been consolidated to the mill area during 2000.

7.5 Removal of Fresh Water Supply Dam (FWSD) Stop Logs

The stop log guides that had previously been used to increase the water level in the fresh water reservoir were fully removed in June 2000. This work eliminated the possibility of future surcharging of the reservoir water level above the existing spillway sill and will reduce the risks associated with the FWSD.

7.6 Lightning Strikes

Damage from lightning strikes to electrical equipment was experienced on two occasions in June 2000. In each instance, the damage was repaired with minimal disruption to site activities.

On June 12th, the transformer that supplied power to the Faro gatehouse was destroyed and a replacement was installed. On June 27th, the ground fault protection system at the Faro pit barge was damaged and a new system was ordered and installed in July.

7.7 Damage to Datalogger Station

Bear damage to the datalogger station located in the North Fork of Rose Creek (monitoring location R7) occurred during the summer. The physical damage to the shack was repaired with no apparent damage to the instrumentation.

7.8 Fuel Spill at Fresh Water Supply Dam (FWSD)

A spill of diesel fuel occurred in June at the valve house at the downstream toe of the FWSD. The spill occurred during the draining of a small fuel tank that was located on the roof of the valve house. The residual fuel was being drained from the tank prior to the tank's removal so that a spill of the entire contents of the tank would not occur if the tank were damaged during removal.

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The spill was reported to the Yukon spill response centre and to DIAND Water Resources immediately and flow from the low level outlet pipe was stopped. The spill was cleaned with absorbent pads and booms. Subsequent to analysis of follow-up water samples that confirmed that the risk of further contamination had passed and subsequent to consultation with DIAND Water Resources, flow from the low level outlet pipe was resumed. The volume spilled was estimated at 50 litres.

7.9 Mill Conversion Project

The treatment of the large volumes of water pumped from the Faro Main pit at the Intermediate dam spillway has presented challenges that have, from 1998 through 2000, been successfully dealt with. One aspect of these challenges is illustrated in the fact that, in both 1999 and 2000, treatment at the spillway was required throughout the entire pumping program. This was in contrast to the previous experience in 1997 and 1998 when treatment at the spillway was discontinued several weeks into the pumping program. The risks of non-compliance and the resources required to ensure compliance given the 1999 and 2000 experiences were considered to be significant and, therefore, alternative treatment concepts were evaluated.

In order to reduce the risks associated with treatment of the Faro pit water at the Intermediate dam outflow spillway, the concept of converting certain fixed equipment in the mill for use as a water treatment plant was considered. The concept would ensure that effluent exiting the mill would be compliant and could be discharged into Rose Reek without need for treatment at the Intermediate dam outflow spillway.

The mill conversion project had advanced, at year-end 2000, to the distribution of a Request for Proposals for the engineering design of the concept. The engineering contract was awarded to Hatch Engineering of Vancouver in January 2001 and work on the conversion project commenced in February 2001. At the time of this report (February 2001), the construction schedule showed the "new" treatment system was scheduled for testing by March 31, 2001.

8. Summary Of Other Regulatory Issues

8.1 Surveys/Questionnaires

The following surveys or questionnaires were completed during 2000:

- National Pollutants Release Inventory, Environment Canada (1999 reporting year)
- Survey of Mineral Exploration, Deposit Appraisal and Mine Complex Development Expenditures, Natural Resources Canada

8.2 PCB Inventory

An updated inventory for PCB materials on the minesite was developed in fall 1999 in response to comments and recommendations made by Environment Canada personnel during their PCB inspection in summer 1999. The updated inventory was compiled by Access Mining Consultants Ltd. of Whitehorse and was subsequently submitted to and accepted by Environment Canada in April 2000. That inventory did not include a survey of pole-mounted electrical transformers.

A sampling survey of all pole-mounted transformers was conducted by a local electrical contractor in June 2000. The sampling indicated that only one of the transformers contained in excess of the regulatory threshold of 50 ppb PCB and this transformer was removed from service.

Northcan Environmental, a local contractor who is experienced in the handling and transport of PCB's, was contracted in September 2000 to remove all out-of-service PCB-containing equipment from the site. This included the contents of the storage container plus one electrical transformer. This work was communicated to Environment Canada, Environmental Protection Branch appropriately.

8.3 Registration Of Storage Tanks

A total of 16 above ground and one partially buried storage tanks were registered in April 1999 per the requirements of the "Regulation of Storage Tank Systems for Petroleum Products and Allied Petroleum Products on Federal Lands Regulations". The tanks were on both the Faro and Vangorda Plateau minesites.

In 2000, the DIAND file numbers for each tank were painted onto the tanks in large, highly visible numerals according to DIAND's instructions.

8.4 DIAND Scrap Steel Reclamation Project

A DIAND funded scrap steel reclamation project was carried out at the Faro minesite from August to October 2000 as a follow-up to the 1999 program. The 2000 work focussed on preparation and removal of the boxes and frames from decommissioned rock trucks.

Appendices

Appendix 1

2000 Surface Water Quality Listing

FARO SURFACE WATER QUALITY LISTING FOR 2000

STATION: X2, N Fork of Rose Creek u/s of mine access road

Date	PH-F pH unit	TEMP-C deg C	FLOW RATE L/s	NH3-N mg/L	SO4-T mg/L	TSS mg/L	HARD mg/L	CN-T mg/L	SPECIFIC COND µS/cm	ALK-T mg/L	TOTAL ACIDITY mg/L
27/01/00				<0.05	32	1		<0.01			
28/02/00	6.85	0		<0.05	24	1		<0.01			
23/03/00	6.67	0		<0.05	23	<1		<0.01			
27/04/00	6.96	2		<0.05	26	2		<0.01			
15/05/00	6.74	3		<0.05	8	2		<0.01			
26/06/00	7.41	9		0.07	6	6		<0.01			
25/07/00	7.63	8.1		<0.05	9	<1		<0.01			
29/08/00	7.42	5		<0.05	9	1		<0.01			
25/09/00	7.69	3.4		0.02	11	3.6		<0.01			
28/10/00		2.3									
29/10/00				<0.05	13	1		<0.01			pH probe broken
18/11/00				<0.02	19	1.6		<0.01			
14/12/00	7.22			0.03	21	0.8		<0.01			
JAN 2000 - DEC 2000											
Mean	7.18	3.6		0.05	16.75	1.83		0.01			
Std. Deviation	0.38	3.2		0.01	8.49	1.53		0			
Minimum Value	6.67	0		0.02	6	0.8		0.01			
Maximum Value	7.69	9		0.07	32	6		0.01			
Num. Values	9	9		12	12	12		12			

STATION: X3, S Fork Rose Creek at the pumphouse reservoir

Date	PH-F pH unit	TEMP-C deg C	FLOW RATE L/s	NH3-N mg/L	SO4-T mg/L	TSS mg/L	HARD mg/L	CN-T mg/L	SPECIFIC COND µS/cm	ALK-T mg/L	TOTAL ACIDITY mg/L
27/01/00				<0.05	24	<1					
28/02/00		0		<0.05	22	<1					
23/03/00	7.29	1		<0.05	21	1	137				
27/04/00	6.42	2		<0.05	23	1					
15/05/00	7.54	2		<0.05	10	<1					
26/06/00	7.39	13		<0.05	7	4					
25/07/00	7.81	10.3			10	1					
29/08/00	7.61	6.8			12	2					
25/09/00	7.7	4.3			15	1.6					
28/10/00		1.8									
29/10/00					32	3					pH probe broken
18/11/00					23	2.6					
14/12/00	7.21				23	0.6					
JAN 2000 - DEC 2000											
Mean	7.41	4.6		0.05	18.5	1.65	137				
Std. Deviation	0.42	4.5		0	7.53	1.04	0				
Minimum Value	6.42	0		0.05	7	0.6	137				
Maximum Value	7.81	13		0.05	32	4	137				
Num. Values	9	9		6	12	12	1				

STATION: X4, Intermediate Dam decant

Date	PH-F pH unit	TEMP-C deg C	FLOW RATE L/s	NH3-N mg/L	SO4-T mg/L	TSS mg/L	HARD mg/L	CN-T mg/L	SPECIFIC COND µS/cm	ALK-T mg/L	TOTAL ACIDITY mg/L
26/01/00				1.39	677	2		<0.01			
25/03/00			0	0.93	575	8					no disch, 3m dpth
15/05/00	7.09	1	100	0.08	100	2		<0.01			
26/06/00	7.98	16		0.92	499	5		0.01			
25/07/00	7.55	14.7		0.94	596	3					CN-t=0.35 mg/L anomalous; follow-up <MDL
15/08/00								<0.01			
29/08/00	7.38	10.9		1.02	614	3		0.01			
25/09/00	7.81	8.5		0.71	611	0.8		0.01			CN-t=0.02 after rechecking
28/10/00		2.8									
29/10/00				0.83	635	7		<0.01			pH probe broken
18/11/00				0.86	653	0.4		0.02			CN-t check = 0.02 mg/L
14/12/00	6.97			0.72	668	0.4		0.01			
JAN 2000 - DEC 2000											
Mean	7.46	9	50	0.84	562.8	3.16		0.01			
Std. Deviation	0.4	6.1	71	0.33	170.59	2.69		0			
Minimum Value	6.97	1	0	0.08	100	0.4		0.01			
Maximum Value	7.98	16	100	1.39	677	8		0.02			
Num. Values	6	6	2	10	10	10		9			

FARO SURFACE WATER QUALITY LISTING FOR 2000

STATION: X5, Cross Valley Pond outflow

**** BOLDDED AND ASTERIXED RESULTS REPRESENT PERIODS OF EFFLUENT DISCHARGE****
****NON-BOLDED AND NON-ASTERIXED RESULTS INDICATE PERIODS OF NO EFFLUENT DISCHARGE****

Date	PH-F pH unit	TEMP-C deg C	FLOW RATE L/s	NH3-N mg/L	SO4-T mg/L	TSS mg/L	HARD mg/L	CN-T mg/L	SPECIFIC COND µS/cm	ALK-T mg/L	TOTAL ACIDITY mg/L
26/01/00				1.18	566	2		<0.01			no disch
25/03/00			0	1.06	580	1					no disch, 3m dph
27/04/00	7.28	2	200	1	551	3		<0.01			no disch
15/05/00*	8.69	2		0.07	152	1		<0.01			
22/05/00*			249								
4/6/2000*	9.47	9	265		380	8					
26/06/00*	9.3	15		0.85	442	7		<0.01			
25/07/00*	8.32	13.7	265	0.88	557	5					CN-t=0.18 mg/L anomalous; follow-up <MDL
28/07/00	8.25	14.2	849								no disch
15/08/00*								<0.01			
29/08/00*	8.5	11		0.97	581	5		0.01			
30/08/00*	8.2	9	1000								
25/09/00	8.03	11.5		0.66	675	0.6		0.02			no disch
21/10/00*			312	0.67	507	7		<0.01			
28/10/00		2.8									no disch
18/11/00*				0.71	561	0.2		0.01			CN-t check = 0.01 mg/L
14/12/00	7.9			0.69	579	0.8		<0.01			no disch
JAN 2000 - DEC 2000 (ALL RESULTS)											
Mean	8.39	9	392	0.79	510.92	3.38		0.01			
Std. Deviation	0.65	5.1	344	0.3	135.26	2.87		0			
Minimum Value	7.28	2	0	0.07	152	0.2		0.01			
Maximum Value	9.47	15	1000	1.18	675	8		0.02			
Num. Values	10	10	8	11	12	12		10			

STATION: X10, Rose Creek Diversion Channel below weirs

Date	PH-F pH unit	TEMP-C deg C	FLOW RATE L/s	NH3-N mg/L	SO4-T mg/L	TSS mg/L	HARD mg/L	CN-T mg/L	SPECIFIC COND µS/cm	ALK-T mg/L	TOTAL ACIDITY mg/L
23/03/00	6.81	0		<0.05	23	2	145				
27/04/00	6.43	1		0.83	25	2					
15/05/00	7.5	1		<0.05	12	<1					
26/06/00	7.8	13		<0.05	10	3	51				
25/07/00	7.74	10.6			13	<1					
29/08/00	7.8	6.2			12	2					
25/09/00	7.95	5			16	2.4					
28/10/00		2									
29/10/00					47	3					pH probe broken
18/11/00					26	2.6					
14/12/00	7.54				26	0.4					
JAN 2000 - DEC 2000											
Mean	7.45	4.9		0.24	21	1.94	98				
Std. Deviation	0.54	4.8		0.39	11.15	0.88	66				
Minimum Value	6.43	0		0.05	10	0.4	51				
Maximum Value	7.95	13		0.83	47	3	145				
Num. Values	8	8		4	10	10	2				

FARO SURFACE WATER QUALITY LISTING FOR 2000

STATION: X11, Seepage from north toe of Cross Valley Dam

Date	PH-F pH unit	TEMP-C deg C	FLOW RATE L/s	NH3-N mg/L	SO4-T mg/L	TSS mg/L	HARD mg/L	CN-T mg/L	SPECIFIC COND µS/cm	ALK-T mg/L	TOTAL ACIDITY mg/L
27/01/00			19.5	0.88	750	7		<0.01			
28/02/00	6.42	2	19	0.89	749	10		<0.01			
23/03/00	6.42	2	21	0.8	702	11		<0.01			
27/04/00	7.05	3	21	0.13	771	13		<0.01			
15/05/00	6.96	4		0.85	718	7		<0.01			
26/06/00	6.84	8	26	0.9	591	13		<0.01			
25/07/00	7.07	5.8	24	0.88	713	9		<0.01			
18/08/00	7.06	4.9	27								
24/08/00	7.09	5.4	30								
29/08/00	7.15	5	27	0.87	719	5		<0.01			
08/09/00	7.12	5	27								
12/09/00	7.11	5.4	27								
25/09/00	7.05	5.4	27	0.8	815	2.4		<0.01			
19/10/00	7.18	4.5	30	0.67	661	12		<0.01			
28/10/00		4.4	27								
18/11/00			27	0.75	729	4.8		<0.01			
14/12/00	7.11		27	0.63	727	7.2		<0.01			
JAN 2000 - DEC 2000											
Mean	6.97	4.6	25.4	0.75	720.42	8.45		0.01			
Std. Deviation	0.25	1.6	3.5	0.22	55.59	3.45		0			
Minimum Value	6.42	2	19	0.13	591	2.4		0.01			
Maximum Value	7.18	8	30	0.9	815	13		0.01			
Num. Values	14	14	16	12	12	12		12			

STATION: X12, Seepage from south toe of Cross Valley Dam

Date	PH-F pH unit	TEMP-C deg C	FLOW RATE L/s	NH3-N mg/L	SO4-T mg/L	TSS mg/L	HARD mg/L	CN-T mg/L	SPECIFIC COND µS/cm	ALK-T mg/L	TOTAL ACIDITY mg/L
27/01/00			1	0.05	324	20		<0.01			
28/02/00	7.43	0	1	<0.05	320	93		<0.01			
23/03/00	6.68	1	1	<0.05	305	16		<0.01			
27/04/00	6.57	3	1	0.79	361	7		<0.01			
15/05/00	5.81	4	1	<0.05	335	<1		<0.01			
26/06/00	6.84	8	0.5	0.15	292	6		<0.01			
25/07/00	6.77	7.2	1	<0.05	317	2		<0.01			
18/08/00	7.15	6.7									
24/08/00	7.12	6									
29/08/00	7.15	6.2		<0.05	279	1		<0.01			
08/09/00	7.2	6	1								
12/09/00	7.23	5.5	1								
25/09/00	7.18	5	1	0.03	340	0.6		<0.01			
19/10/00	7.36	4.2	1	<0.05	308	8		<0.01			
28/10/00		4.4									
18/11/00				0.08	275	<0.2		<0.01			
14/12/00	7.38			0.06	279	0.2		<0.01			
JAN 2000 - DEC 2000											
Mean	6.99	4.8	1	0.12	311.25	12.92		0.01			
Std. Deviation	0.43	2.3	0.2	0.21	26.89	26.04		0			
Minimum Value	5.81	0	0.5	0.03	275	0.2		0.01			
Maximum Value	7.43	8	1	0.79	361	93		0.01			
Num. Values	14	14	11	12	12	12		12			

SWL below gauge, culvert cleaned out
SWL below gauge, culvert cleaned out
below gauge

STATION: WEIR3, seepage from central area of X-Valley Dam

Date	PH-F pH unit	TEMP-C deg C	FLOW RATE L/s	NH3-N mg/L	SO4-T mg/L	TSS mg/L	HARD mg/L	CN-T mg/L	SPECIFIC COND µS/cm	ALK-T mg/L	TOTAL ACIDITY mg/L
18/08/00	7.08	4.7	12								
24/08/00	7.08	5.1	12								
19/10/00	7.23	3.4	12	0.49	422	7					
18/11/00			12								
14/12/00			27								
JAN 2000 - DEC 2000											
Mean	7.13	4.4	15	0.49	422	7					
Std. Deviation	0.09	0.9	7	0	0	0					
Minimum Value	7.08	3.4	12	0.49	422	7					
Maximum Value	7.23	5.1	27	0.49	422	7					
Num. Values	3	3	5	1	1	1					

FARO SURFACE WATER QUALITY LISTING FOR 2000

STATION: X13, Combined seepage from Cross Valley Dam

	PH-F	TEMP-C	FLOW RATE	NH3-N	SO4-T	TSS	HARD	CN-T	SPECIFIC COND	ALK-T	TOTAL ACIDITY
Date	pH unit	deg C	L/s	mg/L	mg/L	mg/L	mg/L	mg/L	µS/cm	mg/L	mg/L
27/01/00			47	0.7	569	7		<0.01			
28/02/00	6.72	0	47	0.79	594	19		<0.01			
23/03/00	6.15	2	49	0.72	587	11		<0.01			
27/04/00	7.08	3	47	0.45	694	11		<0.01			
15/05/00	6.52	5		0.8	623	5		<0.01			
26/06/00	7.09	8	45	0.81	52	9		<0.01			
19/07/00			45								
25/07/00	6.99	6.4	49	0.85	656	8		<0.01			
28/07/00	6.99	6.4	54								
03/08/00	7.12	5.6	47								
10/08/00	7.25	5.1	51								
18/08/00	7.14	4.9	49								
24/08/00	7.18	4.9	55								
29/08/00	7.1	5.3	55	0.67	694	11		<0.01			
08/09/00	7.13	5	49								
12/09/00	7.15	5.5	55								
25/09/00	7.15	5.3	49	0.66	459	6.4		<0.01			
19/10/00	7.24	4.3	55	0.73	534	20		<0.01			
28/10/00		3.9	49								
18/11/00			35	0.7	620	5.2		<0.01			
14/12/00	7.19		35	0.61	585	5.8		<0.01			
JAN 2000 - DEC 2000											
Mean	7.01	4.7	48	0.71	553.58	9.87		0.01			
Std. Deviation	0.29	1.8	5.7	0.11	171.62	5.01		0			
Minimum Value	6.15	0	35	0.45	52	5		0.01			
Maximum Value	7.25	8	55	0.85	694	20		0.01			
Num. Values	17	17	20	12	12	12		12			

STATION: X14, Rose Cr downstream of the diversion channel

	PH-F	TEMP-C	FLOW RATE	NH3-N	SO4-T	TSS	HARD	CN-T	SPECIFIC COND	ALK-T	TOTAL ACIDITY
Date	pH unit	deg C	L/s	mg/L	mg/L	mg/L	mg/L	mg/L	µS/cm	mg/L	mg/L
27/01/00				0.13	206	2	298				
28/02/00	7.56	0		0.15	179	6	302				
23/03/00	6.88	1		<0.05	185	2	324				
27/04/00	7.43	2		0.95	324	8	367				
15/05/00	6.48	1		<0.05	60	1	101				
26/06/00	8.63	12		0.17	83	1	135				
25/07/00	8.02	10.9			153	2	183				
29/08/00	7.85	7			63	1	130				
25/09/00	7.76	4.8			9	2.2	99				
28/10/00		3.2									
29/10/00					70	6	141				pH probe broken
18/11/00					11	1.6	99				
14/12/00	7.48				96	1.2	246				
JAN 2000 - DEC 2000											
Mean	7.57	4.7		0.25	119.92	2.83	202.08				
Std. Deviation	0.63	4.4		0.35	92.1	2.4	99.29				
Minimum Value	6.48	0		0.05	9	1	99				
Maximum Value	8.63	12		0.95	324	8	367				
Num. Values	9	9		6	12	12	12				

STATION: X22B, Faro Pit water while filling with tailings

	PH-F	TEMP-C	FLOW RATE	NH3-N	SO4-T	TSS	HARD	CN-T	SPECIFIC COND	ALK-T	TOTAL ACIDITY
Date	pH unit	deg C	L/s	mg/L	mg/L	mg/L	mg/L	mg/L	µS/cm	mg/L	mg/L
23/03/00		2		1.09	548	2		<0.01	1150	105	74
15/05/00	7.29	5		1.28	620	6					5m depth at relief valve
26/06/00	7.58	16		1.1	457	5					
25/07/00	6.93	13.4			536	2					
15/08/00								<0.01			
29/08/00	7.37	9.8			545	3					
25/09/00	7.47	10.8			597	2.8					
28/10/00		1.9									
29/10/00					779	5					pH probe broken
18/11/00				2.52	1735	1.2					
14/12/00	7.02				572	1.8					
JAN 2000 - DEC 2000											
Mean	7.28	8.4		1.5	709.89	3.2		0.01	1150	105	74
Std. Deviation	0.25	5.6		0.69	394.18	1.71		0	0	0	0
Minimum Value	6.93	1.9		1.09	457	1.2		0.01	1150	105	74
Maximum Value	7.58	16		2.52	1735	6		0.01	1150	105	74
Num. Values	6	7		4	9	9		2	1	1	1

FARO SURFACE WATER QUALITY LISTING FOR 2000

STATION: X23, Old Faro Creek channel at toe of waste dumps

Date	PH-F pH unit	TEMP-C deg C	FLOW RATE L/s	NH3-N mg/L	SO4-T mg/L	TSS mg/L	HARD mg/L	CN-T mg/L	SPECIFIC COND µS/cm	ALK-T mg/L	TOTAL ACIDITY mg/L
26/01/00				0.55	3204	6					
28/02/00	6.49	0	1.7	0.61	3165	17					
27/04/00	6.26	5	1.4	<0.05	3159	40					
15/05/00	6.46	8		0.55	3594	21					
26/06/00	6.59	14		0.7	2735	6					
25/07/00	6.93	6.5	2.5	0.73	3067	42					1.75 L/s stop watch
29/08/00	6.79	6.5	2.25	0.5	3329	22					
25/09/00	6.44	5.9	1.25	0.25	5184	115					
28/10/00		3.6	6								
29/10/00				0.5	10571	258					pH probe broken
18/11/00			6		6053	183					
14/12/00	6.28		6	0.43	5786	149					
JAN 2000 - DEC 2000											
Mean	6.53	6.2	3.39	0.49	4531.55	78.09					
Std. Deviation	0.23	4	2.2	0.2	2323.8	85.47					
Minimum Value	6.26	0	1.25	0.05	2735	6					
Maximum Value	6.93	14	6	0.73	10571	258					
Num. Values	8	8	8	10	11	11					

STATION: X26, Zone II Pit water (from well)

Date	PH-F pH unit	TEMP-C deg C	FLOW RATE L/s	NH3-N mg/L	SO4-T mg/L	TSS mg/L	HARD mg/L	CN-T mg/L	SPECIFIC COND µS/cm	ALK-T mg/L	TOTAL ACIDITY mg/L
26/06/00	5.77	5		1.96	1928	46					
25/07/00	6.3	5.6			1703	45					
29/08/00	6.05	2.9			2220	60					
25/09/00	6.18	3.1			2236	56					
JAN 2000 - DEC 2000											
Mean	6.08	4.1		1.96	2022	52					
Std. Deviation	0.23	1.4		0	255	7					
Minimum Value	5.77	2.9		1.96	1703	45					
Maximum Value	6.3	5.6		1.96	2236	60					
Num. Values	4	4		1	4	4					

STATION: R1, Rose Creek upstream of Pumphouse Pond

Date	PH-F pH unit	TEMP-C deg C	FLOW RATE L/s	NH3-N mg/L	SO4-T mg/L	TSS mg/L	HARD mg/L	CN-T mg/L	SPECIFIC COND µS/cm	ALK-T mg/L	TOTAL ACIDITY mg/L
01/08/00	7.96	9.1	2480	<0.05	7	1	51		132.9	177	
06/09/00	8.1	3.9	3678	<0.05	9	1	59		147.3	72	
JAN 2000 - DEC 2000											
Mean	8.03	6.5	3079	0.05	8	1	55		140.1	124	
Std. Deviation	0.1	3.7	847	0	1	0	6		10.2	74	
Minimum Value	7.96	3.9	2480	0.05	7	1	51		132.9	72	
Maximum Value	8.1	9.1	3678	0.05	9	1	59		147.3	177	
Num. Values	2	2	2	2	2	2	2		2	2	

STATION: R2, Rose Creek near X14

Date	PH-F pH unit	TEMP-C deg C	FLOW RATE L/s	NH3-N mg/L	SO4-T mg/L	TSS mg/L	HARD mg/L	CN-T mg/L	SPECIFIC COND µS/cm	ALK-T mg/L	TOTAL ACIDITY mg/L
31/07/00	8.17	11.6	4670	<0.05	83	<1	124	<0.01	340	82	
05/09/00	8.07	5.4	6125	<0.05	21	<1	78	<0.01	206	85	
JAN 2000 - DEC 2000											
Mean	8.12	8.5	5398	0.05	52	1	101	0.01	273	84	
Std. Deviation	0.07	4.4	1029	0	44	0	33	0	95	2	
Minimum Value	8.07	5.4	4670	0.05	21	1	78	0.01	206	82	
Maximum Value	8.17	11.6	6125	0.05	83	1	124	0.01	340	85	
Num. Values	2	2	2	2	2	2	2	2	2	2	

FARO SURFACE WATER QUALITY LISTING FOR 2000

STATION: R3, Rose Creek between X14 and R4

	PH-F	TEMP-C	FLOW RATE	NH3-N	SO4-T	TSS	HARD	CN-T	SPECIFIC COND	ALK-T	TOTAL ACIDITY
Date	pH unit	deg C	L/s	mg/L	mg/L	mg/L	mg/L	mg/L	µS/cm	mg/L	mg/L
01/08/00	8.12	10.7	5130	<0.05	76	1	122	<0.01	330	84	
06/09/00	8.04	4		<0.05	20	1	78	<0.01	217	87	
JAN 2000 - DEC 2000											
Mean	8.08	7.3	5130	0.05	48	1	100	0.01	274	86	
Std. Deviation	0.06	4.7	0	0	40	0	31	0	80	2	
Minimum Value	8.04	4	5130	0.05	20	1	78	0.01	217	84	
Maximum Value	8.12	10.7	5130	0.05	76	1	122	0.01	330	87	
Num. Values	2	2	1	2	2	2	2	2	2	2	

STATION: R4, Rose Creek upstream of Anvil Creek

	PH-F	TEMP-C	FLOW RATE	NH3-N	SO4-T	TSS	HARD	CN-T	SPECIFIC COND	ALK-T	TOTAL ACIDITY
Date	pH unit	deg C	L/s	mg/L	mg/L	mg/L	mg/L	mg/L	µS/cm	mg/L	mg/L
01/08/00		9.1	6290	<0.05	69	1	118	<0.01	315	83	
JAN 2000 - DEC 2000											
Mean		9.1	6290	0.05	69	1	118	0.01	315	83	
Std. Deviation		0	0	0	0	0	0	0	0	0	
Minimum Value		9.1	6290	0.05	69	1	118	0.01	315	83	
Maximum Value		9.1	6290	0.05	69	1	118	0.01	315	83	
Num. Values		1	1	1	1	1	1	1	1	1	

STATION: R5, Anvil Creek downstream of Rose Creek

	PH-F	TEMP-C	FLOW RATE	NH3-N	SO4-T	TSS	HARD	CN-T	SPECIFIC COND	ALK-T	TOTAL ACIDITY	
Date	pH unit	deg C	L/s	mg/L	mg/L	mg/L	mg/L	mg/L	µS/cm	mg/L	mg/L	
01/08/00	8.35	7.5	11090	<0.05	20	2	101		250	105		flow calc R4+R6
06/09/00	8.4	3.2		<0.05	18	3	107		257	115		
JAN 2000 - DEC 2000												
Mean	8.38	5.4	11090	0.05	19	2	104		254	110		
Std. Deviation	0.04	3	0	0	1	1	4		5	7		
Minimum Value	8.35	3.2	11090	0.05	18	2	101		250	105		
Maximum Value	8.4	7.5	11090	0.05	20	3	107		257	115		
Num. Values	2	2	1	2	2	2	2		2	2		

STATION: R6, Anvil Creek upstream of Rose Creek

	PH-F	TEMP-C	FLOW RATE	NH3-N	SO4-T	TSS	HARD	CN-T	SPECIFIC COND	ALK-T	TOTAL ACIDITY
Date	pH unit	deg C	L/s	mg/L	mg/L	mg/L	mg/L	mg/L	µS/cm	mg/L	mg/L
01/08/00	8.4	7.2	4800	<0.05	15	1	99		244	118	
06/09/00	7.4	3.2		<0.05	18	2	111		261	114	
JAN 2000 - DEC 2000											
Mean	7.9	5.2	4800	0.05	16	2	105		252	116	
Std. Deviation	0.7	2.8	0	0	2	1	8		12	3	
Minimum Value	7.4	3.2	4800	0.05	15	1	99		244	114	
Maximum Value	8.4	7.2	4800	0.05	18	2	111		261	118	
Num. Values	2	2	1	2	2	2	2		2	2	

STATION: R7, N Fork of Rose Creek above Faro Ck Diversion

	PH-F	TEMP-C	FLOW RATE	NH3-N	SO4-T	TSS	HARD	CN-T	SPECIFIC COND	ALK-T	TOTAL ACIDITY
Date	pH unit	deg C	L/s	mg/L	mg/L	mg/L	mg/L	mg/L	µS/cm	mg/L	mg/L
26/03/00				<.05	11	2					
03/06/00	8.79	8			3	4					
01/08/00	7.97	7.4	1610	<0.05	5	1	47		126.8	66	
06/09/00	8.06	3.2	2625	<0.05	7	3	61		144.8	66	
12/09/00	7.43	2.7			22	<1					
JAN 2000 - DEC 2000											
Mean	8.06	5.3	2118	0.05	10	2	54		135.8	66	
Std. Deviation	0.56	2.8	718	0	8	1	10		12.7	0	
Minimum Value	7.43	2.7	1610	0.05	3	1	47		126.8	66	
Maximum Value	8.79	8	2625	0.05	22	4	61		144.8	66	
Num. Values	4	4	2	3	5	5	2		2	2	

FARO SURFACE WATER QUALITY LISTING FOR 2000

STATION: R8, N Fork of Rose Creek 900 m below Faro Ck Div.

Date	PH-F pH unit	TEMP-C deg C	FLOW RATE L/s	NH3-N mg/L	SO4-T mg/L	TSS mg/L	HARD mg/L	CN-T mg/L	SPECIFIC COND µS/cm	ALK-T mg/L	TOTAL ACIDITY mg/L
26/03/00				<.05	10	1					
04/06/00	7.88	7			3	3					
12/09/00	7.48	2.6			9	2					
JAN 2000 - DEC 2000											
Mean	7.68	4.8		0.05	7	2					
Std. Deviation	0.28	3.1		0	4	1					
Minimum Value	7.48	2.6		0.05	3	1					
Maximum Value	7.88	7		0.05	10	3					
Num. Values	2	2		1	3	3					

STATION: R9, N Fork of Rose Creek adjacent BH1 and BH2

Date	PH-F pH unit	TEMP-C deg C	FLOW RATE L/s	NH3-N mg/L	SO4-T mg/L	TSS mg/L	HARD mg/L	CN-T mg/L	SPECIFIC COND µS/cm	ALK-T mg/L	TOTAL ACIDITY mg/L
04/06/00	6.15	5			3	6					
12/09/00	7.52	2.8			10	6					
JAN 2000 - DEC 2000											
Mean	6.84	3.9			6	6					
Std. Deviation	0.97	1.6			5	0					
Minimum Value	6.15	2.8			3	6					
Maximum Value	7.52	5			10	6					
Num. Values	2	2			2	2					

STATION: R10, North Fork of Rose Creek u/s of rock drain

Date	PH-F pH unit	TEMP-C deg C	FLOW RATE L/s	NH3-N mg/L	SO4-T mg/L	TSS mg/L	HARD mg/L	CN-T mg/L	SPECIFIC COND µS/cm	ALK-T mg/L	TOTAL ACIDITY mg/L
26/03/00				<.05	15	2					
03/06/00	7.88	5			3	9					
12/09/00	7.21	2.9			10	4					
JAN 2000 - DEC 2000											
Mean	7.55	4		0.05	9	5					
Std. Deviation	0.47	1.5		0	6	4					
Minimum Value	7.21	2.9		0.05	3	2					
Maximum Value	7.88	5		0.05	15	9					
Num. Values	2	2		1	3	3					

STATION: FAROCR, Faro Cr u/s of confluence NFRose

Date	PH-F pH unit	TEMP-C deg C	FLOW RATE L/s	NH3-N mg/L	SO4-T mg/L	TSS mg/L	HARD mg/L	CN-T mg/L	SPECIFIC COND µS/cm	ALK-T mg/L	TOTAL ACIDITY mg/L
03/06/00	7.45	6			1	16					
12/09/00	7.02	2.6			5	3					
JAN 2000 - DEC 2000											
Mean	7.23	4.3			3	10					
Std. Deviation	0.3	2.4			3	9					
Minimum Value	7.02	2.6			1	3					
Maximum Value	7.45	6			5	16					
Num. Values	2	2			2	2					

FARO SURFACE WATER QUALITY LISTING FOR 2000

STATION: XL N Fork of Bear Creek wk of mine access road

Date	AG-T	AL-T	AS-T	B-T	BA-T	BE-T	BI-T	CA-T	CD-T	CO-T	CR-T	CU-T	FE-T	K-T	LI-T	MG-T	MN-T	MO-T	NA-T	NI-T	P-T	PB-T	S-T	SB-T	SE-T	SH-T	SK-T	TI-T	TL-T	V-T	ZN-T	
27/01/00	<0.03	0.11	<0.05	<0.5	0.162	<0.01	<0.5	46.1	0.002	<0.05	<0.05	0.021	0.12	3	<0.01	8.8	0.03	<0.02	5	0.009	<1	0.02	<0.3	<0.3	<0.05	5.1	<0.1	0.176	0.017	0.011	0.09	
28/02/00	<0.03	0.51	<0.05	<0.5	0.179	<0.01	<0.5	42.2	<0.01	<0.05	0.053	0.235	1.62	3	<0.01	9.7	0.12	<0.02	4	0.006	<1	0.05	7	<0.3	<0.05	6.3	<0.1	0.218	0.119	0.018	0.39	
23/03/00	<0.03	0.11	<0.05	<0.5	0.196	<0.01	<0.5	47.4	0.004	0.035	<0.05	0.007	0.11	2	<0.01	9.9	0.07	<0.02	<1	<0.05	<1	<0.1	8	<0.3	<0.05	5.9	<0.1	0.238	<0.05	<0.05	0.02	
27/04/00	<0.03	0.09	<0.05	<0.5	0.199	0.003	<0.5	40.3	<0.01	<0.05	<0.05	0.027	1.06	1	<0.01	9.3	0.1	<0.02	4	<0.05	<1	<0.1	<0.3	<0.3	<0.05	5.3	<0.1	0.167	0.143	0.043	0.22	
15/05/00	<0.03	0.28	0.028	0.06	0.139	<0.01	<0.5	16.6	<0.01	<0.05	0.171	0.012	1.04	1	<0.01	3.6	0.04	0.015	<1	<0.05	<1	<0.1	<0.3	<0.3	<0.05	3.7	<0.1	0.143	0.06	0.066	0.11	
25/06/00	<0.03	0.17	<0.05	<0.5	0.15	<0.01	<0.5	21.5	<0.01	<0.05	<0.05	0.02	1.9	2	<0.01	4.8	0.07	<0.02	3	0.018	5	<0.1	<0.3	<0.3	<0.05	3.7	<0.1	0.143	0.06	0.066	0.11	
25/07/00	<0.03	0.17	<0.05	<0.5	0.15	<0.01	<0.5	21.5	<0.01	<0.05	<0.05	0.02	1.9	2	<0.01	4.8	0.07	<0.02	3	0.018	5	<0.1	<0.3	<0.3	<0.05	3.7	<0.1	0.143	0.06	0.066	0.11	
29/08/00	<0.03	0.31	<0.05	<0.5	0.134	<0.01	<0.5	19.3	<0.01	<0.05	<0.05	0.006	3.18	<1	<0.01	3.7	0.05	<0.02	3	0.007	4	<0.1	<0.3	<0.3	<0.05	5.7	<0.1	0.086	0.066	<0.05	0.13	
25/09/00	<0.01	0.17	<0.2	<0.1	0.24	<0.005	<0.1	18.8	<0.001	<0.01	<0.01	0.22	<2	<2	<0.01	3.8	0.05	<0.01	<2	<0.05	<0.3	<0.1	9	<0.3	<0.05	5.9	<0.1	0.132	0.074	<0.05	0.022	
29/10/00	<0.03	0.32	<0.05	0.05	0.269	0.001	<0.5	30.1	<0.01	<0.05	<0.05	0.03	3.14	2	<0.01	6.6	0.11	<0.02	5	<0.05	2	<0.1	<0.3	<0.3	<0.05	5.9	<0.1	0.132	0.074	<0.05	0.022	
18/11/00	<0.01	<0.05	<0.2	<0.1	0.06	<0.005	<0.1	38	<0.001	<0.01	<0.01	<0.01	0.22	<2	<0.01	7.2	0.033	<0.01	3	<0.05	<0.3	<0.1	<0.3	<0.3	<0.05	5.9	<0.1	0.151	<0.05	<0.05	0.02	
14/12/2000	<0.01	<0.05	<0.2	<0.1	0.07	<0.005	<0.1	36.4	<0.001	<0.01	<0.01	<0.01	0.17	<2	<0.01	7.6	0.032	<0.01	3	<0.05	<0.3	<0.1	<0.3	<0.3	<0.05	5.33	<0.01	0.163	<0.05	<0.05	0.022	
JAN 2000 - DEC 2000																																
Mean	0.005	0.19	0.056	0.06	0.149	0.002	0.06	30.9	0.001	0.009	0.024	0.035	1.5	2	0.01	6.5	0.059	0.005	3	0.018	1.6	0.03	8	0.07	0.054	5.02	0.01	0.151	0.104	0.2	0.172	0.156
Std. Deviation	0.003	0.14	0.047	0.02	0.057	0.002	0.02	12.3	0.001	0.009	0.048	0.009	1.58	1	0	2.6	0.048	0.005	1	0.02	1.5	0.02	1	0.04	0.048	1.09	0.01	0.057	0.122	0	0.277	0.167
Minimum Value	0.003	0.05	0.005	0.05	0.04	0.001	0.05	14.3	0.001	0.005	0.005	0.006	0.11	1	0.01	3.4	0.01	0.002	1	0.005	0.3	0.01	7	0.03	0.005	2.7	0.01	0.056	0.003	0.2	0.005	0.01
Maximum Value	0.01	0.51	0.2	0.1	0.269	0.003	0.1	47.4	0.004	0.035	0.171	0.233	5	3	0.01	9.9	0.17	0.015	5	0.05	5	0.05	9	0.2	0.2	6.3	0.03	0.238	0.408	0.2	0.663	0.5
Num. Values	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
Date	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	K-D	LI-D	MG-D	MN-D	MO-D	NA-D	NI-D	P-D	PB-D	S-D	SB-D	SE-D	SH-D	SK-D	TI-D	TL-D	V-D	ZN-D	
27/01/00	<0.05	<0.5	<0.05	<0.5	0.024	<0.01	<0.5	34.8	<0.01	<0.05	<0.05	0.01	<0.1	2	<0.01	9	0.01	0.005	5	<0.05	<1	<0.1	<0.3	<0.3	<0.05	4.8	<0.1	0.146	<0.05	0.006	0.02	
28/02/00	<0.05	0.06	<0.05	<0.5	0.024	<0.01	<0.5	34.8	<0.01	<0.05	<0.05	0.01	<0.1	2	<0.01	9	0.01	0.005	5	<0.05	<1	<0.1	<0.3	<0.3	<0.05	4.8	<0.1	0.146	<0.05	0.006	0.02	
23/03/00	<0.05	<0.5	<0.05	<0.5	0.158	<0.01	<0.5	44.9	<0.01	0.021	<0.05	<0.05	0.08	<1	<0.01	9.6	0.08	<0.02	<1	<0.05	<1	<0.1	<0.3	<0.3	<0.05	4.8	<0.1	0.159	0.04	<0.05	<0.1	
27/04/00	<0.05	<0.5	<0.05	<0.5	0.158	<0.01	<0.5	44.9	<0.01	0.021	<0.05	<0.05	0.08	<1	<0.01	9.6	0.08	<0.02	<1	<0.05	<1	<0.1	<0.3	<0.3	<0.05	4.8	<0.1	0.159	0.04	<0.05	<0.1	
15/05/00	<0.05	<0.5	<0.05	<0.5	0.119	<0.01	<0.5	11.9	<0.01	<0.05	<0.05	<0.02	0.27	<1	<0.01	5.2	<0.1	<0.02	<1	<0.05	2	<0.1	<0.3	<0.3	<0.05	4.1	<0.1	0.039	<0.05	<0.05	<0.1	
26/06/00	<0.05	<0.5	<0.05	<0.5	0.011	<0.01	<0.5	7.6	<0.01	<0.05	<0.05	<0.02	0.01	<1	<0.01	2.2	<0.1	<0.02	<1	<0.05	2	<0.1	<0.3	<0.3	<0.05	3.1	<0.1	0.006	<0.05	<0.05	<0.1	
29/07/00	<0.05	0.14	<0.05	<0.5	0.016	<0.01	<0.5	13.6	<0.01	0.028	<0.05	<0.02	0.15	<1	<0.01	3.9	<0.1	<0.02	3	0.006	2	<0.1	<0.3	<0.3	<0.05	3.7	<0.1	0.115	<0.05	0.022	<0.1	
29/08/00	<0.05	0.14	<0.05	<0.5	0.016	<0.01	<0.5	13.6	<0.01	0.028	<0.05	<0.02	0.15	<1	<0.01	3.9	<0.1	<0.02	3	0.006	2	<0.1	<0.3	<0.3	<0.05	3.7	<0.1	0.115	<0.05	0.022	<0.1	
29/09/00	<0.05	0.14	<0.05	<0.5	0.016	<0.01	<0.5	13.6	<0.01	0.028	<0.05	<0.02	0.15	<1	<0.01	3.9	<0.1	<0.02	3	0.006	2	<0.1	<0.3	<0.3	<0.05	3.7	<0.1	0.115	<0.05	0.022	<0.1	
29/10/00	<0.05	0.14	<0.05	<0.5	0.016	<0.01	<0.5	13.6	<0.01	0.028	<0.05	<0.02	0.15	<1	<0.01	3.9	<0.1	<0.02	3	0.006	2	<0.1	<0.3	<0.3	<0.05	3.7	<0.1	0.115	<0.05	0.022	<0.1	
18/11/00	<0.05	0.07	0.015	<0.1	0.06	<0.005	<0.1	18.3	<0.01	<0.05	<0.05	0.002	0.15	<1	<0.01	4.8	0.04	<0.02	5	<0.05	2	<0.1	<0.3	<0.3	<0.05	5.3	<0.1	0.061	<0.05	<0.05	<0.1	
14/12/00	<0.01	<0.05	<0.2	<0.1	0.06	<0.005	<0.1	36.5	<0.001	<0.01	<0.01	<0.01	0.04	<2	<0.01	7.6	0.047	<0.01	2	<0.05	<0.3	<0.1	<0.3	<0.3	<0.05	5.3	<0.1	0.164	<0.05	<0.05	0.015	
JAN 2000 - DEC 2000																																
Mean	0.005	0.19	0.056	0.06	0.149	0.002	0.06	30.9	0.001	0.009	0.024	0.035	1.5	2	0.01	6.5	0.059	0.005	3	0.018	1.6	0.03	8	0.07	0.054	5.02	0.01	0.151	0.104	0.2	0.172	0.156
Std. Deviation	0.003	0.14	0.047	0.02	0.057	0.002	0.02	12.3	0.001	0.009	0.048	0.009	1.58	1	0	2.6	0.048	0.005	1	0.02	1.5	0.02	1	0.04	0.048	1.09	0.01	0.057	0.122	0	0.277	0.167
Minimum Value	0.003	0.05	0.005	0.05	0.04	0.001	0.05	14.3	0.001	0.005	0.005	0.006	0.11	1	0.01	3.4	0.01	0.002	1	0.005	0.3	0.01	7	0.03	0.005	2.7	0.01	0.056	0.003	0.2	0.005	0.01
Maximum Value	0.01	0.51	0.2	0.1	0.269	0.003	0.1	47.4	0.004	0.035	0.171	0.233	5	3	0.01	9.9	0.17	0.015	5	0.05	5	0.05	9	0.2	0.2	6.3	0.03	0.238	0.408	0.2	0.663	0.5
Num. Values	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	

FARO SURFACE WATER QUALITY LISTING FOR 2000

STATION: X3, S Fork Roan Creek at the pumphouse reservoir

Date	AG-T	AL-T	AS-T	B-T	BA-T	BE-T	BI-T	CA-T	CD-T	CO-T	CR-T	CU-T	FE-T	K-T	LI-T	MG-T	MS-T	MO-T	NA-T	NI-T	P-T	PB-T	S-T	SB-T	SE-T	SI-T	SN-T	SR-T	TL-T	V-T	ZN-T	
2/10/00	<0.03	0.13	<0.05	<0.5	0.145	<0.01	<0.5	41.6	0.001	<0.05	<0.05	0.019	0.1	2	<0.01	9	0.01	0.003	4	0.01	<1	0.01	<0.1	<0.3	<0.05	5.2	<0.1	0.176	0.018	<0.05	<0.1	
2/15/00	<0.03	0.18	<0.05	<0.5	0.119	<0.01	<0.5	39.6	0.001	<0.05	0.038	0.15	3	3	8.8	0.04	0.004	<0.02	4	0.011	<1	0.02	7	0.04	<0.05	5.2	<0.1	0.196	0.074	0.015	0.11	
2/16/00	<0.03	0.11	<0.05	<0.5	0.198	<0.01	<0.5	43.7	0.004	0.029	<0.05	0.006	0.12	4	6.9	0.04	<0.02	<1	<0.05	<1	<0.1	7	<0.3	<0.05	5.5	<0.1	0.127	<0.05	<0.05	0.01		
2/17/00	<0.03	0.14	<0.05	<0.5	0.16	<0.01	<0.5	30.5	<0.01	<0.05	<0.05	0.015	0.33	<1	8.7	0.05	<0.02	3	<0.05	<1	<0.1	<0.3	<0.3	<0.05	4	<0.1	0.138	0.061	0.029	0.06		
2/18/00	<0.03	0.2	<0.05	<0.5	0.122	<0.01	<0.5	19.3	<0.01	<0.05	0.134	0.006	0.1	<1	4	0.03	0.004	<1	<0.05	2	<0.1	<0.3	<0.3	<0.05	3.7	<0.1	0.188	0.035	0.007	0.05		
2/19/00	<0.03	0.05	<0.05	<0.5	0.179	<0.01	<0.5	18.6	0.001	<0.05	<0.05	0.006	0.12	<1	4.8	0.03	0.004	<1	<0.05	2	<0.1	<0.3	<0.3	<0.05	3.7	<0.1	0.188	0.035	0.007	0.05		
2/20/00	<0.03	<0.5	<0.05	<0.5	0.14	<0.01	<0.5	18.6	0.001	0.017	<0.05	0.01	1.32	<1	4.2	0.03	0.004	<1	0.017	2	<0.1	<0.3	<0.3	<0.05	3.7	<0.1	0.188	0.035	0.007	0.05		
2/21/00	<0.03	0.31	<0.05	<0.5	0.166	<0.01	<0.5	23.7	<0.01	0.011	<0.05	0.011	0.63	1	<0.01	4.8	0.03	<0.02	3	0.017	<1	<0.1	<0.3	<0.05	4.7	<0.1	0.191	0.031	<0.05	0.11		
2/22/00	<0.03	0.11	<0.2	<0.1	0.64	<0.005	<0.1	23.6	<0.001	<0.05	<0.05	<0.01	0.15	<2	<0.01	4.9	0.03	<0.01	<2	<0.05	<0.3	<0.2	<0.3	<0.05	4.2	<0.1	0.112	<0.01	<0.2	0.014		
2/23/00	<0.03	0.36	<0.05	<0.5	0.229	0.001	<0.5	31.8	<0.01	<0.05	<0.05	0.024	1.19	2	<0.01	7.1	0.06	<0.02	5	<0.05	1	<0.1	<0.3	<0.05	5.4	<0.1	0.147	0.192	0.096	0.01		
2/24/00	<0.03	0.1	<0.2	<0.1	0.66	<0.005	<0.1	39.2	<0.001	<0.01	<0.01	0.01	0.22	<2	<0.01	7.8	0.044	<0.01	2	<0.05	<0.3	<0.2	<0.3	<0.05	5.3	<0.3	0.166	<0.01	<0.2	0.028		
2/25/00	<0.01	<0.05	<0.2	<0.1	0.07	<0.005	<0.1	38.4	<0.001	<0.01	<0.01	<0.01	0.14	<2	<0.01	8	0.049	<0.01	3	<0.05	<0.3	<0.2	<0.3	<0.05	5.26	<0.3	0.174	<0.01	<0.2	0.024		
JAN 2000 - DEC 2000																																
Mean	0.005	0.15	0.034	0.06	0.124	0.002	0.06	30.4	0.001	0.01	0.022	0.014	0.46	2	0.01	6.4	0.035	0.004	3	0.019	1.2	0.02	8	0.07	0.044	4.36	0.01	0.153	0.03	0.2	0.035	0.03
Std. Deviation	0.003	0.1	0.088	0.02	0.055	0.002	0.02	10.2	0.001	0.007	0.039	0.009	0.42	1	0	2.1	0.014	0.004	1	0.019	1.0	0.02	7	0.08	0.088	1.01	0.01	0.051	0.034	0	0.035	0.044
Minimum Value	0.003	0.05	0.005	0.05	0.04	0.001	0.05	14.3	0.001	0.005	0.005	0.006	0.1	1	0.01	3	0.013	0.002	1	0.005	0.3	0.01	7	0.03	0.005	2.4	0.01	0.042	0.005	0.2	0.005	0.01
Maximum Value	0.01	0.36	0.2	0.1	0.229	0.005	0.1	43.7	0.004	0.029	0.134	0.038	1.32	4	0.01	9	0.06	0.01	5	0.05	4.0	0.05	11	0.2	0.2	5.5	0.03	0.23	0.192	0.2	0.1	0.13
Num. Values	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
Date	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	K-D	LI-D	MG-D	MS-D	MO-D	NA-D	NI-D	P-D	PB-D	S-D	SB-D	SE-D	SI-D	SN-D	SR-D	TL-D	V-D	ZN-D	
2/16/00	<0.03	<0.5	<0.05	<0.5	0.031	<0.01	<0.5	26.2	<0.01	<0.05	<0.05	0.004	<0.1	1	<0.01	8.2	0.01	<0.02	4	<0.05	<1	<0.1	8	<0.3	<0.05	3.8	<0.1	0.153	<0.05	<0.05	<0.1	
2/18/00	<0.03	<0.5	<0.05	<0.5	0.036	<0.01	<0.5	36.8	<0.01	<0.05	0.056	0.004	<0.1	2	<0.01	8.6	<0.01	0.003	4	<0.05	<1	<0.1	7	<0.3	<0.05	3.8	<0.1	0.153	<0.05	<0.05	<0.1	
2/19/00	<0.03	<0.5	<0.05	<0.5	0.036	<0.01	<0.5	40.9	0.002	0.027	<0.05	0.004	<0.1	2	<0.01	8.4	0.04	<0.02	<1	<0.05	<1	<0.1	7	<0.3	<0.05	3.9	<0.1	0.153	<0.05	<0.05	<0.1	
2/20/00	<0.03	<0.5	<0.05	<0.5	0.031	<0.01	<0.5	30	<0.01	<0.05	<0.05	0.003	0.03	<1	<0.01	6.9	0.01	<0.02	3	<0.05	<1	<0.1	8	<0.3	<0.05	3.9	<0.1	0.153	<0.05	<0.05	<0.1	
2/21/00	<0.03	<0.5	<0.05	<0.5	0.034	<0.01	<0.5	15.3	<0.01	<0.05	<0.05	<0.02	0.2	<1	<0.01	3.9	<0.01	<0.02	<1	<0.05	<1	<0.1	2	<0.3	<0.05	3	<0.1	0.096	<0.05	<0.05	<0.1	
2/22/00	<0.03	<0.5	<0.05	<0.5	0.009	<0.01	<0.5	11.7	<0.01	0.008	<0.05	<0.02	<0.1	1	<0.01	3.7	<0.01	<0.02	<1	<0.05	<1	<0.1	2	<0.3	<0.05	3.3	<0.1	0.096	<0.05	<0.05	<0.1	
2/23/00	<0.03	<0.5	<0.05	<0.5	0.021	<0.01	<0.5	14.9	<0.01	0.017	<0.05	<0.02	0.14	<1	<0.01	3.7	<0.01	<0.02	3	0.007	<1	<0.1	3	<0.3	<0.05	2.9	<0.1	0.128	<0.05	<0.05	<0.1	
2/24/00	<0.03	0.11	<0.05	<0.5	0.016	<0.01	<0.5	18.6	<0.01	<0.05	<0.05	<0.02	<0.1	<1	<0.01	3.9	<0.01	<0.02	3	0.007	<1	<0.1	4	<0.3	<0.05	4.2	<0.1	0.096	<0.05	<0.05	<0.1	
2/25/00	<0.03	0.08	<0.05	<0.5	0.038	<0.01	<0.5	29.7	<0.01	<0.05	<0.05	<0.02	0.17	2	<0.01	7.1	0.038	<0.02	5	<0.05	<0.3	<0.2	11	<0.3	<0.05	4.4	<0.1	0.116	<0.05	<0.05	<0.1	
2/26/00	<0.03	0.08	<0.05	<0.5	0.038	<0.01	<0.5	29.7	<0.01	<0.05	<0.05	<0.02	0.17	2	<0.01	7.1	0.038	<0.02	5	<0.05	<0.3	<0.2	11	<0.3	<0.05	4.4	<0.1	0.116	<0.05	<0.05	<0.1	
2/27/00	<0.03	0.08	<0.05	<0.5	0.038	<0.01	<0.5	29.7	<0.01	<0.05	<0.05	<0.02	0.17	2	<0.01	7.1	0.038	<0.02	5	<0.05	<0.3	<0.2	11	<0.3	<0.05	4.4	<0.1	0.116	<0.05	<0.05	<0.1	
2/28/00	<0.03	0.08	<0.05	<0.5	0.038	<0.01	<0.5	29.7	<0.01	<0.05	<0.05	<0.02	0.17	2	<0.01	7.1	0.038	<0.02	5	<0.05	<0.3	<0.2	11	<0.3	<0.05	4.4	<0.1	0.116	<0.05	<0.05	<0.1	
2/29/00	<0.03	0.08	<0.05	<0.5	0.038	<0.01	<0.5	29.7	<0.01	<0.05	<0.05	<0.02	0.17	2	<0.01	7.1	0.038	<0.02	5	<0.05	<0.3	<0.2	11	<0.3	<0.05	4.4	<0.1	0.116	<0.05	<0.05	<0.1	
2/30/00	<0.03	0.08	<0.05	<0.5	0.038	<0.01	<0.5	29.7	<0.01	<0.05	<0.05	<0.02	0.17	2	<0.01	7.1	0.038	<0.02	5	<0.05	<0.3	<0.2	11	<0.3	<0.05	4.4	<0.1	0.116	<0.05	<0.05	<0.1	
2/31/00	<0.03	0.08	<0.05	<0.5	0.038	<0.01	<0.5	29.7	<0.01	<0.05	<0.05	<0.02	0.17	2	<0.01	7.1	0.038	<0.02	5	<0.05	<0.3	<0.2	11	<0.3	<0.05	4.4	<0.1	0.116	<0.05	<0.05	<0.1	
2/32/00	<0.03	0.08	<0.05	<0.5	0.038	<0.01	<0.5	29.7	<0.01	<0.05	<0.05	<0.02	0.17	2	<0.01	7.1	0.038	<0.02	5	<0.05	<0.3	<0.2	11	<0.3	<0.05	4.4	<0.1	0.116	<0.05	<0.05	<0.1	
2/33/00	<0.03	0.08	<0.05	<0.5	0.038	<0.01	<0.5	29.7	<0.01	<0.05	<0.05	<0.02	0.17	2	<0.01	7.1	0.038	<0.02	5	<0.05	<0.3	<0.2	11	<0.3	<0.05	4.4	<0.1	0.116	<0.05	<0.05	<0.1	
2/34/00	<0.03	0.08	<0.05	<0.5	0.038	<0.01	<0.5	29.7	<0.01	<0.05	<0.05	<0.02	0.17	2	<0.01	7.1	0.038	<0.02	5	<0.05	<0.3	<0.2	11	<0.3	<0.05	4.4	<0.1	0.116	<0.05	<0.05	<0.1	
2/35/00	<0.03	0.08	<0.05	<0.5	0.038	<0.01	<0.5	29.7	<0.01	<0.05	<0.05	<0.02	0.17	2	<0.01	7.1	0.038	<0.02	5	<0.05	<0.3	<0.2	11	<0.3	<0.05	4.4	<0.1	0.116	<0.05	<0.05	<0.1	
2/36/00	<0.03	0.08	<0.05	<0.5	0.038	<0.01	<0.5	29.7	<0.01	<0.05	<0.05	<0.02	0.17	2	<0.01	7.1	0.038	<0.02	5	<0.05	<0.3	<0.2	11	<0.3	<0.05	4.4	<0.1	0.116	<0.05	<0.05	<0.1	
2/37/00	<0.03	0.08	<0.05	<0.5	0.038																											

FAO SURFACE WATER QUALITY LISTING FOR 2000

STATION: N4, Intermediate Dam decant

Date	AO-T	AL-T	AS-T	B-T	BA-T	BE-T	BI-T	CA-T	CD-T	CO-T	CR-T	CU-T	FE-T	K-T	LI-T	MG-T	MIN-T	MO-T	NA-T	NI-T	P-T	PB-T	S-T	SB-T	SE-T	SH-T	SN-T	SR-T	TI-T	TL-T	V-T	ZN-T
26/01/00	<0.03	0.53	<0.05	<0.5	0.137	<0.01	<0.5	176.6	<0.01	0.03	<0.05	<0.02	3.14	15	0.03	38.1	5.79	<0.02	26	<0.05	<1	<0.1	195	<0.3	<0.05	3.4	<0.1	0.492	0.007	<0.05	2.32	
26/03/00	<0.03	0.23	0.011	<0.5	0.168	<0.01	<0.5	28.7	0.002	0.013	0.098	0.007	0.84	<1	0.03	5.4	1.15	<0.02	<1	0.006	<1	0.03	<0.3	<0.3	<0.03	0.8	<0.1	0.17	0.038	0.006	2.48	
15/05/00	<0.03	0.16	<0.05	<0.5	0.099	0.002	<0.5	159.3	0.004	0.016	<0.05	0.025	0.3	9	0.03	34.3	3.86	<0.02	17	0.029	4	<0.1	<0.3	<0.3	<0.03	0.9	<0.1	0.429	0.084	0.025	1.49	
26/06/00	<0.03	0.1	<0.05	<0.5	0.106	0.002	<0.5	158	0.008	0.034	<0.05	0.029	0.95	10	0.03	38	3.07	0.01	23	0.034	5	<0.1	<0.3	<0.3	<0.03	1	<0.1	0.554	0.062	0.047	2.03	
24/07/00	<0.03	0.37	<0.05	<0.5	0.084	0.002	<0.5	180.2	0.018	0.018	<0.05	0.02	0.16	9	0.03	47.2	4.12	<0.02	24	0.032	5	<0.1	<0.3	<0.3	<0.03	2.6	<0.1	0.48	0.044	<0.05	2.34	
24/08/00	<0.01	0.1	<0.1	<0.1	0.250500	<0.005	<0.1	166.6	0.003	0.02	<0.05	<0.01	0.46	8	0.03	47.5	4.37	<0.01	21	<0.05	<0.3	<0.05	<0.2	<0.2	<0.2	1.84	<0.1	0.503	0.147	<0.03	4.06	
29/10/00	<0.03	0.43	0.266	0.06	0.18	0.002	<0.5	158.6	0.01	0.019	<0.05	0.049	1.48	9	0.03	45.4	5.77	0.009	25	0.024	2	0.02	210	<0.3	<0.03	2.4	<0.1	0.547	0.147	0.029	5.75	
18/11/00	<0.01	0.03	<0.2	<0.1	0.02	<0.005	<0.1	199	0.004	0.02	<0.01	<0.01	0.12	8	0.03	47.6	5.89	0.01	23	<0.05	<0.3	<0.05	<0.2	<0.2	<0.2	2.33	<0.1	0.559	0.147	<0.03	5.87	
14/12/00	<0.01	<0.05	<0.2	<0.1	0.02	<0.005	<0.1	205	0.001	0.02	<0.01	<0.01	0.29	9	0.04	56.1	6.74	0.01	23	<0.05	<0.3	<0.05	<0.2	<0.2	<0.2	2.51	<0.1	0.602	<0.01	<0.03	6.01	
JAN 2000 - DEC 2000																																
Stat. Mean	0.005	0.22	0.071	0.07	0.093	0.003	0.07	118	0.004	0.021	0.017	0.019	0.9	9	0.03	40	4.42	0.006	20	0.031	2.1	0.03	202	0.09	0.07	2.02	0.02	0.492	0.046	0.2	0.023	3.38
Stat. Deviation	0.003	0.14	0.097	0.25	0.063	0.002	0.03	51.1	0.004	0.007	0.01	0.015	0.94	4	0.01	14.5	1.79	0.004	9	0.017	2.0	0.02	195	0.09	0.098	0.8	0.1	0.152	0.012	0.047	0.9	
Minimum Value	0.003	0.05	0.005	0.03	0.02	0.001	0.03	28.7	0.001	0.013	0.005	0.002	0.12	1	0.03	5.4	1.15	0.002	1	0.003	0.3	0.01	195	0.03	0.005	0.4	0.01	0.17	0.007	0.2	0.005	1.73
Maximum Value	0.01	0.53	0.2	0.1	0.18	0.005	0.1	205	0.01	0.034	0.098	0.049	3.14	15	0.04	56.1	6.74	0.01	26	0.05	5.0	0.05	210	0.2	0.2	2.4	0.03	0.602	0.147	0.2	0.047	6.01
Num. Values	9	9	9	9	9	9	9	9	9	9	9	9	9	9	3	9	9	9	9	9	9	9	2	9	9	9	9	9	9	3	9	10
Date	AO-D	AL-D	AS-D	BA-D	BE-D	BI-D	CA-D	CD-D	CO-D	CR-D	CU-D	FE-D	K-D	LI-D	MG-D	MIN-D	MO-D	NA-D	NI-D	P-D	PB-D	S-D	SB-D	SE-D	SH-D	SN-D	SR-D	TI-D	TL-D	V-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	

Date	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	K-D	LI-D	MG-D	MIN-D	MO-D	NA-D	NI-D	P-D	PB-D	S-D	SB-D	SE-D	SH-D	SN-D	SR-D	TI-D	TL-D	V-D	ZN-D
26/01/00	<0.03	0.39	<0.05	<0.5	0.069	<0.01	<0.5	170.3	<0.01	<0.05	<0.05	<0.02	0.14	15	0.03	47.6	5.48	<0.02	25	<0.05	<1	<0.1	192	<0.3	<0.05	3.4	<0.1	0.576	0.006	<0.05	1.95	
15/05/00	<0.03	<0.05	<0.05	<0.5	0.061	<0.01	<0.5	170.3	<0.01	<0.05	<0.05	<0.02	0.04	<1	0.03	34.6	0.61	<0.02	<1	<0.05	<1	<0.1	166	<0.3	<0.05	0.8	<0.1	0.136	<0.05	<0.05	1.14	
24/07/00	<0.03	<0.05	<0.05	<0.5	0.061	<0.01	<0.5	154.4	0.005	0.015	<0.05	0.016	0.17	9	0.03	39.6	2.49	<0.02	26	0.018	<1	<0.1	199	<0.3	<0.05	1.1	<0.1	0.547	0.014	<0.05	0.82	
24/08/00	<0.03	0.29	<0.05	<0.5	0.039	<0.01	<0.5	158.8	<0.01	<0.05	<0.05	0.016	0.11	9	0.03	42.4	2.48	<0.02	23	0.023	4	<0.1	211	<0.3	<0.05	2	<0.1	0.437	0.021	<0.05	1.09	
29/10/00	<0.03	<0.05	<0.2	<0.1	0.01	<0.005	<0.1	160	0.003	0.02	<0.01	<0.01	0.21	8	0.03	47.2	4.31	<0.01	21	<0.05	<0.3	<0.05	<0.2	<0.2	<0.2	1.84	<0.03	0.501	<0.01	<0.03	3.94	
29/10/00	<0.03	0.23	<0.05	<0.5	0.083	0.002	<0.5	161.3	0.002	0.011	<0.05	0.028	0.27	9	0.03	45.8	4.78	0.007	23	<0.05	<1	<0.1	212	<0.3	<0.05	2.5	<0.1	0.55	0.013	<0.05	2.63	
18/11/00	<0.01	<0.05	<0.2	<0.1	0.01	<0.005	<0.1	191	0.004	0.02	<0.01	<0.01	<0.01	8	0.03	48.3	5.94	<0.01	23	<0.05	<0.3	<0.05	<0.2	<0.2	<0.2	2.35	<0.03	0.562	<0.01	<0.03	5.92	
14/12/00	<0.01	<0.05	<0.2	<0.1	0.01	<0.005	<0.1	199	0.004	0.02	<0.01	<0.01	0.05	8	0.04	54.3	6.52	<0.01	22	<0.05	<0.3	<0.05	<0.2	<0.2	<0.2	2.39	<0.03	0.581	<0.01	<0.03	5.83	
JAN 2000 - DEC 2000																																
Stat. Mean	0.005	0.13	0.07	0.07	0.041	0.003	0.07	153	0.002	0.012	0.007	0.012	0.11	8	0.03	39.4	3.97	0.005	20	0.023	1.1	0.02	196	0.09	0.07	1.91	0.02	0.484	0.011	0.2	0.014	2.56
Stat. Deviation	0.003	0.13	0.098	0.23	0.026	0.002	0.03	49.2	0.002	0.007	0.002	0.008	0.29	4	0.01	14.1	1.93	0.004	8	0.021	1.1	0.02	19	0.09	0.098	0.85	0.01	0.144	0.005	0	0.012	1.99
Minimum Value	0.003	0.05	0.005	0.03	0.01	0.001	0.03	29	0.001	0.005	0.003	0.002	0.01	1	0.03	5.6	0.61	0.002	1	0.005	0.3	0.01	166	0.03	0.005	0.8	0.01	0.136	0.005	0.2	0.005	0.72
Maximum Value	0.01	0.39	0.2	0.1	0.083	0.005	0.1	199	0.005	0.02	0.01	0.028	0.27	15	0.04	54.3	6.52	0.01	26	0.05	4.0	0.05	212	0.2	0.2	3.4	0.03	0.587	0.021	0.2	0.03	5.92
Num. Values	9	9	9	9	9	9	9	9	9	9	9	9	9	9	3	9	9	9	9	9	9	2	9	9	9	9	9	9	2	9	10	

EARSURFACE WATER QUALITY LISTING FOR 2000

STATION: XS Cross Valley Pond outflow

** BOLDED AND ASTERISKED RESULTS REPRESENT PERIODS OF EFFLUENT DISCHARGE**
 *NON-BOLDED AND NON-ASTERISKED RESULTS INDICATE PERIODS OF NO EFFLUENT DISCHARGE**

Date	AL-D	AS-D	B-D	BA-D	BE-D	BI-D	CA-D	CD-D	CO-D	CR-D	CU-D	FE-D	K-D	LI-D	MG-D	NN-D	NA-D	NH-D	PH-D	S-D	SB-D	SD-D	SH-D	SN-D	SR-D	TL-D	TL-D	V-D	ZN-D
26/01/00	<0.03	0.49	<0.05	0.08	0.14	<0.01	<0.05	0.027	<0.05	0.007	0.19	12		42.1	6.3	<0.02	27	<0.05	<0.1	199	<0.3	<0.05	5.7	<0.1	0.635	0.024		<0.05	0.35
25/03/00	<0.03	0.15	<0.05	0.06	0.08	<0.01	<0.01	0.007	<0.05	0.007	0.17	5		71.9	6.47	<0.02	15	<0.05	<0.1	184	<0.3	<0.05	5.6	<0.1	0.493	0.044		<0.05	0.32
15/05/00**	<0.03	0.15	<0.05	0.06	0.08	<0.01	<0.01	0.007	<0.05	0.007	0.17	5		71.9	6.47	<0.02	15	<0.05	<0.1	184	<0.3	<0.05	5.6	<0.1	0.493	0.044		<0.05	0.32
4/07/2000*	<0.03	0.15	<0.05	0.06	0.08	<0.01	<0.01	0.007	<0.05	0.007	0.17	5		71.9	6.47	<0.02	15	<0.05	<0.1	184	<0.3	<0.05	5.6	<0.1	0.493	0.044		<0.05	0.32
26/06/00*	<0.03	0.2	<0.05	0.08	0.14	<0.01	<0.01	0.007	<0.05	0.007	0.17	5		71.9	6.47	<0.02	15	<0.05	<0.1	184	<0.3	<0.05	5.6	<0.1	0.493	0.044		<0.05	0.32
26/07/00*	<0.03	0.2	<0.05	0.08	0.14	<0.01	<0.01	0.007	<0.05	0.007	0.17	5		71.9	6.47	<0.02	15	<0.05	<0.1	184	<0.3	<0.05	5.6	<0.1	0.493	0.044		<0.05	0.32
29/07/00*	<0.03	0.11	<0.05	0.06	0.112	<0.01	<0.01	0.007	<0.05	0.007	0.17	5		71.9	6.47	<0.02	15	<0.05	<0.1	184	<0.3	<0.05	5.6	<0.1	0.493	0.044		<0.05	0.32
25/09/00	<0.03	0.11	<0.05	0.06	0.112	<0.01	<0.01	0.007	<0.05	0.007	0.17	5		71.9	6.47	<0.02	15	<0.05	<0.1	184	<0.3	<0.05	5.6	<0.1	0.493	0.044		<0.05	0.32
25/09/00	<0.03	0.11	<0.05	0.06	0.112	<0.01	<0.01	0.007	<0.05	0.007	0.17	5		71.9	6.47	<0.02	15	<0.05	<0.1	184	<0.3	<0.05	5.6	<0.1	0.493	0.044		<0.05	0.32
18/11/00*	<0.03	0.11	<0.05	0.06	0.112	<0.01	<0.01	0.007	<0.05	0.007	0.17	5		71.9	6.47	<0.02	15	<0.05	<0.1	184	<0.3	<0.05	5.6	<0.1	0.493	0.044		<0.05	0.32
14/12/00	<0.03	0.11	<0.05	0.06	0.112	<0.01	<0.01	0.007	<0.05	0.007	0.17	5		71.9	6.47	<0.02	15	<0.05	<0.1	184	<0.3	<0.05	5.6	<0.1	0.493	0.044		<0.05	0.32
JAN 2000 - DEC 2000 (ALL RESULTS)	Mean	0.065	0.29	0.059	0.105	0.003	0.002	0.011	0.017	0.02	0.49	7	0.02	33.2	3.72	0.008	0.023	0.21	0.03	186	0.08	0.058	3.52	0.02	0.494	0.052	0.2	0.009	0.452
Std. Deviation	0.003	0.05	0.005	0.05	0.02	0.001	0.001	0.005	0.005	0.007	0.08	1	0.01	7.3	0.47	0.002	0.005	0.12	0.01	8	0.03	0.001	1.39	0.01	0.116	0.047	0	0.159	0.203
Minimum Value	0.003	0.05	0.005	0.05	0.02	0.001	0.001	0.005	0.005	0.007	0.08	1	0.01	7.3	0.47	0.002	0.005	0.12	0.01	8	0.03	0.001	1.39	0.01	0.116	0.047	0	0.159	0.203
Maximum Value	0.01	0.9	0.2	0.1	0.203	0.005	0.1	0.027	0.094	0.039	2.44	12	0.03	45.6	6.4	0.02	0.05	0.29	0.11	199	0.2	0.2	5.7	0.03	0.635	0.141	0.2	0.555	0.813
Num. Values	11	11	11	11	11	11	11	11	11	11	11	11	3	11	11	11	11	11	11	2	11	11	11	11	11	11	3	11	13

Date	AL-D	AS-D	B-D	BA-D	BE-D	BI-D	CA-D	CD-D	CO-D	CR-D	CU-D	FE-D	K-D	LI-D	MG-D	NN-D	NA-D	NH-D	PH-D	S-D	SB-D	SD-D	SH-D	SN-D	SR-D	TL-D	TL-D	V-D	ZN-D
26/01/00	<0.03	0.41	<0.05	0.06	0.09	<0.01	<0.05	0.027	<0.05	0.005	0.06	12		48.9	5.53	<0.02	36	<0.05	<0.1	193	<0.3	<0.05	5.4	<0.1	0.616	<0.05		<0.05	0.05
25/03/00	<0.03	0.19	<0.05	0.06	0.09	<0.01	<0.01	0.005	<0.05	0.005	0.06	4		71.8	5.6	<0.02	15	<0.05	<0.1	184	<0.3	<0.05	5.4	<0.1	0.494	<0.05		<0.05	<0.01
15/05/00**	<0.03	0.19	<0.05	0.06	0.09	<0.01	<0.01	0.005	<0.05	0.005	0.06	4		71.8	5.6	<0.02	15	<0.05	<0.1	184	<0.3	<0.05	5.4	<0.1	0.494	<0.05		<0.05	<0.01
4/07/2000*	<0.03	0.19	<0.05	0.06	0.09	<0.01	<0.01	0.005	<0.05	0.005	0.06	4		71.8	5.6	<0.02	15	<0.05	<0.1	184	<0.3	<0.05	5.4	<0.1	0.494	<0.05		<0.05	<0.01
26/06/00*	<0.03	0.19	<0.05	0.06	0.09	<0.01	<0.01	0.005	<0.05	0.005	0.06	4		71.8	5.6	<0.02	15	<0.05	<0.1	184	<0.3	<0.05	5.4	<0.1	0.494	<0.05		<0.05	<0.01
26/07/00*	<0.03	0.19	<0.05	0.06	0.09	<0.01	<0.01	0.005	<0.05	0.005	0.06	4		71.8	5.6	<0.02	15	<0.05	<0.1	184	<0.3	<0.05	5.4	<0.1	0.494	<0.05		<0.05	<0.01
29/07/00*	<0.03	0.19	<0.05	0.06	0.09	<0.01	<0.01	0.005	<0.05	0.005	0.06	4		71.8	5.6	<0.02	15	<0.05	<0.1	184	<0.3	<0.05	5.4	<0.1	0.494	<0.05		<0.05	<0.01
25/09/00	<0.03	0.19	<0.05	0.06	0.09	<0.01	<0.01	0.005	<0.05	0.005	0.06	4		71.8	5.6	<0.02	15	<0.05	<0.1	184	<0.3	<0.05	5.4	<0.1	0.494	<0.05		<0.05	<0.01
25/09/00	<0.03	0.19	<0.05	0.06	0.09	<0.01	<0.01	0.005	<0.05	0.005	0.06	4		71.8	5.6	<0.02	15	<0.05	<0.1	184	<0.3	<0.05	5.4	<0.1	0.494	<0.05		<0.05	<0.01
18/11/00*	<0.03	0.19	<0.05	0.06	0.09	<0.01	<0.01	0.005	<0.05	0.005	0.06	4		71.8	5.6	<0.02	15	<0.05	<0.1	184	<0.3	<0.05	5.4	<0.1	0.494	<0.05		<0.05	<0.01
14/12/00	<0.03	0.19	<0.05	0.06	0.09	<0.01	<0.01	0.005	<0.05	0.005	0.06	4		71.8	5.6	<0.02	15	<0.05	<0.1	184	<0.3	<0.05	5.4	<0.1	0.494	<0.05		<0.05	<0.01
JAN 2000 - DEC 2000 (ALL RESULTS)	Mean	0.065	0.29	0.059	0.105	0.003	0.002	0.011	0.017	0.02	0.49	7	0.02	33.2	3.72	0.008	0.023	0.21	0.03	186	0.08	0.058	3.52	0.02	0.494	0.052	0.2	0.009	0.452
Std. Deviation	0.003	0.05	0.005	0.05	0.02	0.001	0.001	0.005	0.005	0.007	0.08	1	0.01	7.3	0.47	0.002	0.005	0.12	0.01	8	0.03	0.001	1.39	0.01	0.116	0.047	0	0.159	0.203
Minimum Value	0.003	0.05	0.005	0.05	0.02	0.001	0.001	0.005	0.005	0.007	0.08	1	0.01	7.3	0.47	0.002	0.005	0.12	0.01	8	0.03	0.001	1.39	0.01	0.116	0.047	0	0.159	0.203
Maximum Value	0.01	0.9	0.2	0.1	0.203	0.005	0.1	0.027	0.094	0.039	2.44	12	0.03	45.6	6.4	0.02	0.05	0.29	0.11	199	0.2	0.2	5.7	0.03	0.635	0.141	0.2	0.555	0.813
Num. Values	11	11	11	11	11	11	11	11	11	11	11	11	3	11	11	11	11	11	11	2	11	11	11	11	11	11	3	11	13

Date	AL-D	AS-D	B-D	BA-D	BE-D	BI-D	CA-D	CD-D	CO-D	CR-D	CU-D	FE-D	K-D	LI-D	MG-D	NN-D	NA-D	NH-D	PH-D	S-D	SB-D	SD-D	SH-D	SN-D	SR-D	TL-D	TL-D	V-D	ZN-D
26/01/00	<0.03	0.41	<0.05	0.06	0.09	<0.01	<0.05	0.027	<0.05	0.005	0.06	12		48.9	5.53	<0.02	36	<0.05	<0.1	193	<0.3	<0.05	5.4	<0.1	0.616	<0.05		<0.05	0.05
25/03/00	<0.03	0.19	<0.05	0.06	0.09	<0.01	<0.01	0.005	<0.05	0.005	0.06	4		71.8	5.6	<0.02	15	<0.05	<0.1	184	<0.3	<0.05	5.4	<0.1	0.494	<0.05		<0.05	<0.01
15/05/00**	<0.03	0.19	<0.05	0.06	0.09	<0.01	<0.01	0.005	<0.05	0.005	0.06	4		71.8	5.6	<0.02	15	<0.05	<0.1	184	<0.3	<0.05	5.4	<0.1	0.494	<0.05		<0.05	<0.01
4/07/2000*	<0.03	0.19	<0.05	0.06	0.09	<0.01	<0.01	0.005	<0.05	0.005	0.06	4		71.8	5.6	<0.02	15	<0.05	<0.1	184	<0.3	<0.05	5.4	<0.1	0.494	<0.05		<0.05	<0.01
26/06/00*	<0.03	0.19	<0.05	0.06	0.09	<0.01	<0.01	0.005	<0.05	0.005	0.06	4		71.8	5.6	<0.02	15	<0.05	<0.1	184	<0.3	<0.05	5.4	<0.1	0.494	<0.05		<0.05	<0.01
26/07/00*	<0.03	0.19	<0.05	0.06	0.09	<0.01	<0.01	0.005	<0.05	0.005	0.06	4		71.8	5.6	<0.02	15	<0.05	<0.1	184	<0.3	<0.05	5.4	<0.1	0.494	<0.05		<0.05	<0.01
29/07/00*	<0.03	0.19	<0.05	0.06	0.09	<0.01	<0.01	0.005	<0.05	0.005	0.06	4		71.8	5.6	<0.02	15	<0.05	<0.1	184	<0.3	<0.05	5.4	<0.1	0.494	<0.05		<0.05	<0.01
25/09/00	<0.03	0.19	<0.05	0.06	0.09	<0.01	<0.01	0.005	<0.05	0.005	0.06	4		71.8	5.6	<0.02	15	<0.05	<0.1	184	<0.3	<0.05	5.4	<0.1	0.494	<0.05		<0.05	<0.01
25/09/00	<0.03	0.19	<0.05	0.06	0.09	<0.01	<0.01	0.005	<0.05	0.005	0.06	4		71.8	5.6	<0.02	15	<0.05	<0.1	184	<0.3	<0.05	5.4	<0.1	0.494	<0.05		<0.05	<0.01
18/11/00*	<0.03	0.19	<0.05	0.06	0.09	<0.01	<0.01	0.005	<0.05	0.005	0.06	4		71.8	5.6	<0.02	15	<0.05	&										

JAN 2000 - DEC 2000 (ALL RESULTS)

0.003	0.14	0.058	0.06	0.042	0.002	0.06	0.002	0.007	0.006	0.013	0.07	7	0.03	32.4	3.22	0.004	24	0.019	1.4	0.02	172	0.08	0.058	3.31	0.02	0.476	0.012	0.2	0.013	0.252
Std. Deviation	0.003	0.14	0.02	0.022	0.002	0.02	0.002	0.003	0.002	0.009	0.07	3	0.01	19.8	1.95	0.004	9	0.02	1.7	0.02	26	0.08	0.091	1.22	0.01	0.129	0.007	0	0.012	0.165
Minimum Value	0.003	0.05	0.005	0.01	0.001	0.01	0.001	0.002	0.005	0.002	0.01	1	0.02	7.1	0.36	0.002	2	0.01	0.3	0.01	127	0.03	0.005	1.6	0.01	0.19	0.005	0.2	0.005	0.01
Maximum Value	0.01	0.43	0.2	0.1	0.089	0.027	0.01	0.094	0.091	0.039	2.44	12	0.03	45.6	6.4	0.02	33	0.05	0.29	0.11	199	0.2	0.2	5.4	0.03	0.616	0.027	0.2	0.555	0.767
Num. Values	11	11	11	11	11	11	11	11	11	11	11	11	3	11	11	11	11	11	11	7	11	11	11	11	11	11	11	2	11	12

FARO SURFACE WATER QUALITY LISTING FOR 2000

STATION: X10, Rose Creek Diversion Channel below weirs

	AG-T	AL-T	AS-T	B-T	BA-T	BE-T	BI-T	CA-T	CD-T	CO-T	CR-T	CU-T	FE-T	K-T	LI-T	MG-T	MN-T	MO-T	NA-T	NI-T	P-T	PB-T	S-T	SB-T	SE-T	SI-T	SN-T	SR-T	TI-T	TL-T	V-T	ZN-T
Date	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	mg/L
23/03/00	<0.03	0.1	<0.05	<0.5	0.191	<0.001	<0.5	44	0.003	0.038	<0.005	0.005	0.17	2		9.4	0.02	<0.02	<1	<0.05	<1	<0.1	8	<0.3	<0.05	5.4	<0.1	0.222	<0.05		<0.05	0.05
27/04/00	<0.03	0.14	<0.05	<0.5	0.19	<0.001	<0.5	35	0.002	<0.005	<0.005	0.01	0.3	<1		8.1	0.04	<0.02	3	<0.05	<1	<0.1		<0.3	<0.05	4.2	<0.1	0.147	0.046		0.018	0.07
15/05/00	<0.03	0.21	0.01	<0.5	0.108	<0.001	<0.5	20	<0.001	0.009	0.172	0.008	0.62	<1		4.5	0.04	<0.02	<1	0.006	<1	<0.1		<0.3	<0.05	3.5	<0.1	0.168	0.02		<0.05	0.07
26/06/00	<0.03	<0.5	<0.05	<0.5	0.109	0.001	<0.5	16	<0.001	<0.005	0.063	0.007	0.27	3		3.8	0.02	<0.02	<1	<0.05	2	<0.1		<0.3	<0.05	2.6	<0.1	0.065	0.042		0.017	0.06
25/07/00	<0.03	<0.5	<0.05	<0.5	0.14	0.001	<0.5	21.4	<0.001	0.006	<0.005	0.009	0.65	2		5.4	0.01	0.02	3	0.016	6	<0.1		<0.3	<0.05	3.1	<0.1	0.208	0.024		0.03	0.08
29/08/00	<0.03	0.25	<0.05	<0.5	0.097	<0.001	<0.5	20.3	<0.001	<0.005	<0.005	<0.02	0.29	<1		4.8	<0.1	<0.02	2	0.014	3	<0.1		<0.3	<0.05	4.4	<0.1	0.096	0.009		<0.05	0.18
25/09/00	<0.01	0.15	<0.2	<0.1	0.04	<0.003	<0.1	24.6	<0.001	<0.01	<0.01	<0.01	0.22	<2	<0.01	5.7	0.019	<0.01	<2	<0.05	<0.3	<0.05		<0.2	<0.2	4.45	<0.03	0.108	<0.01	<0.03	0.011	
29/10/00	<0.03	0.26	0.025	0.05	0.238	0.001	<0.5	34.5	<0.001	<0.005	0.008	0.025	0.75	3		8.4	0.07	<0.02	5	<0.05	5	<0.1	18	<0.3	<0.05	5.3	<0.1	0.172	0.094		<0.05	0.09
18/11/00	<0.01	0.06	<0.2	<0.1	0.06	<0.005	<0.1	42	<0.001	<0.01	<0.01	<0.01	0.29	<2	<0.01	8.8	0.034	<0.01	2	<0.05	<0.3	<0.05		<0.2	<0.2	5.02	<0.03	0.176	<0.01	<0.2	<0.03	0.039
14/12/00	<0.01	<0.05	<0.2	<0.1	0.08	<0.005	<0.1	47.9	<0.001	<0.01	<0.01	<0.01	0.16	<2	<0.01	10.9	0.062	<0.01	3	<0.05	<0.3	<0.05		<0.2	<0.2	5.94	<0.03	0.216	<0.01	<0.2	<0.03	0.062
JAN 2000 - DEC 2000																																
Mean	0.005	0.13	0.066	0.07	0.125	0.002	0.07	30.6	0.001	0.01	0.029	0.01	0.37	2	0.01	7	0.034	0.006	2	0.021	2.0	0.02	13	0.08	0.064	4.39	0.02	0.158	0.027	0.2	0.017	0.071
Std. Deviation	0.003	0.08	0.093	0.02	0.064	0.002	0.02	11.5	0.001	0.01	0.053	0.006	0.22	1	0	2.4	0.022	0.006	1	0.021	2.0	0.02	7	0.08	0.094	1.07	0.01	0.053	0.028	0	0.012	0.044
Minimum Value	0.003	0.05	0.005	0.05	0.04	0.001	0.05	16	0.001	0.005	0.005	0.002	0.16	1	0.01	3.8	0.01	0.002	1	0.005	0.3	0.01	8	0.03	0.005	3.6	0.01	0.065	0.005	0.2	0.005	0.011
Maximum Value	0.01	0.26	0.2	0.1	0.238	0.005	0.1	47.9	0.003	0.038	0.172	0.025	0.75	3	0.01	10.9	0.07	0.02	5	0.05	6.0	0.05	18	0.2	0.2	5.94	0.03	0.222	0.094	0.2	0.03	0.18
Num. Values	10	10	10	10	10	10	10	10	10	10	10	10	10	10	3	10	10	10	10	10	10	10	2	10	10	10	10	10	10	3	10	10
	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	K-D	LI-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	TL-D	V-D	ZN-D
Date	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	mg/L
23/03/00	<0.03	<0.5	<0.05	<0.5	0.162	<0.001	<0.5	42.8	0.003	0.019	<0.005	<0.02	0.04	3		9.3	0.02	<0.02	<1	<0.05	<1	<0.1	8	<0.3	<0.05	5.6	<0.1	0.218	<0.05		<0.05	0.02
27/04/00	<0.03	<0.5	<0.05	<0.5	0.027	<0.001	<0.5	32.2	<0.001	<0.005	<0.005	0.004	0.08	<1		7.5	0.04	<0.02	3	<0.05	<1	<0.1	8	<0.3	<0.05	3.8	<0.1	0.058	0.006		0.006	<0.1
15/05/00	<0.03	<0.5	<0.05	<0.5	0.024	<0.001	<0.5	19	<0.001	<0.005	<0.005	<0.02	0.22	<1		4.1	<0.1	<0.02	<1	<0.05	<1	<0.1		<0.3	<0.05	3.2	<0.1	0.112	<0.05		<0.05	0.03
26/06/00	<0.03	<0.5	<0.05	<0.5	0.011	<0.001	<0.5	14.9	<0.001	<0.005	<0.005	<0.02	<0.1	2		3.4	0.08	<0.02	<1	<0.05	<1	<0.1	3	<0.3	<0.05	2.3	<0.1	0.038	<0.05		<0.05	0.03
25/07/00	<0.03	<0.5	<0.05	<0.5	0.014	<0.001	<0.5	19.6	<0.001	0.009	0.012	<0.02	0.19	1		5	0.15	<0.02	3	0.01	<1	<0.1	4	<0.3	<0.05	3.2	<0.1	0.12	<0.05		0.027	<0.1
29/08/00	<0.03	0.09	<0.05	<0.5	0.013	<0.001	<0.5	18.9	<0.001	<0.005	<0.005	<0.02	0.01	<1		4.5	<0.1	<0.02	3	<0.05	<1	<0.1	4	<0.3	<0.05	4.4	<0.1	0.079	<0.05		<0.05	<0.1
25/09/00	<0.01	<0.05	<0.2	<0.1	0.04	<0.005	<0.1	25.2	<0.001	<0.01	<0.01	<0.01	0.1	<2	<0.01	5.9	0.014	<0.01	<2	<0.05	<0.3	<0.05		<0.2	<0.2	4.48	<0.03	0.112	<0.01	<0.2	<0.03	<0.005
29/10/00	<0.03	0.1	<0.05	<0.5	0.029	<0.001	<0.5	32.7	<0.001	<0.005	<0.005	0.014	0.32	2		8	0.05	<0.02	5	<0.05	<1	<0.1	16	<0.3	<0.05	5.3	<0.1	0.129	<0.05		<0.05	0.02
18/11/00	<0.01	<0.05	<0.2	<0.1	0.06	<0.005	<0.1	42.8	<0.001	<0.01	<0.01	<0.01	0.13	<2	<0.01	9.3	0.052	<0.01	2	<0.05	<0.3	<0.05		<0.2	<0.2	4.99	<0.03	0.179	<0.01	<0.2	<0.03	0.029
14/12/00	<0.01	<0.05	<0.2	<0.1	0.07	<0.005	<0.1	45.4	<0.001	<0.01	<0.01	<0.01	0.04	<2	<0.01	10.3	0.051	<0.01	3	<0.05	<0.3	<0.05		<0.2	<0.2	5.66	<0.03	0.218	<0.01	<0.2	<0.03	0.049
JAN 2000 - DEC 2000																																
Mean	0.005	0.06	0.064	0.07	0.045	0.002	0.07	29.4	0.001	0.008	0.007	0.006	0.11	2	0.01	6.7	0.048	0.004	2	0.019	0.8	0.02	7	0.08	0.064	4.29	0.02	0.126	0.007	0.2	0.015	0.021
Std. Deviation	0.003	0.02	0.094	0.02	0.046	0.002	0.02	11.4	0.001	0.004	0.003	0.005	0.1	1	0	2.5	0.043	0.004	1	0.021	0.3	0.02	5	0.08	0.094	1.14	0.01	0.062	0.002	0	0.012	0.013
Minimum Value	0.003	0.05	0.005	0.05	0.011	0.001	0.05	14.9	0.001	0.005	0.005	0.002	0.01	1	0.01	3.4	0.01	0.002	1	0.005	0.3	0.01	3	0.03	0.005	2.3	0.01	0.038	0.005	0.2	0.005	0.005
Maximum Value	0.01	0.1	0.2	0.1	0.162	0.005	0.1	45.4	0.003	0.019	0.012	0.014	0.32	3	0.01	10.3	0.15	0.01	5	0.05	1.0	0.05	16	0.2	0.2	5.66	0.03	0.218	0.01	0.2	0.03	0.049
Num. Values	10	10	10	10	10	10	10	10	10	10	10	10	10	10	3	10	10	10	10	10	10	10	6	10	10	10	10	10	10	2	10	10

STATION: X11, Seepage from north toe of Cross Valley Dam

[illegible]

FAO SURFACE WATER QUALITY LISTING FOR 2000

STATION: X12, Srapane from south use of Cross Valley Dam

Date	AG-T	AL-T	AS-T	B-T	BA-T	BE-T	BI-T	CA-T	CD-T	CO-T	CR-T	CU-T	FE-T	K-T	LI-T	MG-T	MN-T	MO-T	NA-T	NI-T	P-T	PB-T	S-T	SB-T	SE-T	SI-T	SN-T	SR-T	TI-T	TL-T	V-T	ZN-T
2701000	<0.03	0.23	<0.05	<0.5	0.115	0.001	<0.5	119.3	0.007	<0.05	<0.05	0.029	0.16	6	<0.01	26.4	0.64	<0.02	21	<0.05	<1	<0.1	<0.3	<0.03	<0.03	3.9	<0.1	0.357	0.025	0.006	<0.1	
2702000	<0.03	1.62	<0.05	<0.5	0.157	<0.01	<0.5	124.3	<0.01	<0.05	0.13	0.063	3.02	7	<0.01	32.2	2.44	<0.02	27	<0.05	<1	<0.1	<0.3	<0.03	<0.03	8	<0.1	0.461	0.118	0.008	0.2	
2703000	<0.03	0.49	<0.05	0.06	0.17	<0.01	<0.5	136.9	0.001	0.017	<0.05	0.003	0.19	5	<0.01	30.8	0.35	<0.02	12	<0.05	<1	<0.1	<0.3	<0.03	<0.03	<0.1	<0.1	0.497	0.009	<0.05	<0.1	
2704000	<0.03	0.33	<0.05	<0.5	0.171	<0.01	0.08	123.4	<0.01	<0.05	0.157	0.026	0.21	5	<0.01	39.1	0.44	<0.02	21	<0.05	<1	<0.1	<0.3	<0.03	<0.03	5.1	<0.1	0.413	0.06	<0.05	0.02	
1905000	<0.03	0.23	0.014	0.07	0.112	<0.01	<0.5	129.5	<0.01	0.013	0.157	0.015	0.21	5	<0.01	39.1	0.44	<0.02	20	<0.05	<1	<0.1	<0.3	<0.03	<0.03	4.6	<0.1	0.361	0.027	<0.05	0.03	
2706000	<0.03	0.15	<0.05	<0.5	0.103	<0.02	<0.5	134.5	<0.01	0.009	<0.05	0.023	0.15	7	<0.01	39.1	0.64	<0.02	24	<0.09	4	<0.1	0.08	<0.03	<0.03	<0.1	<0.1	0.404	0.052	0.013	0.06	
2707000	<0.03	0.09	<0.05	<0.5	0.112	<0.02	<0.5	133.2	0.004	<0.05	<0.05	0.023	0.07	6	<0.01	37.2	0.58	0.013	25	<0.17	3	<0.1	<0.3	<0.03	<0.03	4.6	<0.1	0.523	0.031	0.027	0.03	
2708000	<0.03	0.24	<0.05	<0.5	0.203000	<0.05	<0.5	120.5	0.004	<0.05	<0.05	0.012	0.07	5	<0.01	27	0.71	<0.02	21	0.023	4	<0.1	<0.3	<0.03	<0.03	5.5	<0.1	0.377	0.033	0.018	0.08	
2709000	<0.01	<0.05	<0.2	<0.1	0.04	<0.005	<0.1	126	<0.001	<0.01	<0.01	<0.01	<0.01	4	<0.01	27.2	0.236	<0.01	21	<0.05	<0.3	<0.05	<0.2	<0.2	4.93	<0.03	0.388	<0.01	<0.2	<0.05	<0.05	
1910000	<0.03	0.41	<0.05	<0.5	0.224	0.002	<0.5	117.2	0.002	<0.05	<0.05	0.033	0.59	7	<0.01	26.2	0.44	<0.02	26	<0.05	3	<0.1	<0.3	<0.03	<0.03	5.4	<0.1	0.405	0.094	<0.05	0.04	
1811000	<0.01	0.06	<0.2	<0.1	<0.005	<0.1	<0.5	138	<0.001	<0.01	<0.01	<0.01	0.02	4	<0.01	27	0.314	<0.01	23	<0.05	<0.3	<0.05	<0.2	<0.2	5.35	<0.03	0.408	<0.01	<0.2	0.008	<0.05	
1812000	<0.01	<0.05	<0.2	<0.1	0.04	<0.005	<0.1	128	<0.001	<0.01	<0.01	<0.01	0.04	5	<0.01	27.2	0.371	<0.01	20	<0.05	<0.3	<0.05	<0.2	<0.2	4.83	<0.03	0.388	<0.01	<0.3	<0.03	0.006	

JAN 2000 - DEC 2000

Mean	Std. Deviation	Minimum Value	Maximum Value	Num. Values
0.005	0.33	0.055	0.07	118
0.003	0.43	0.088	0.02	63
0.003	0.05	0.005	0.05	1172
0.001	1.62	0.1	0.234	0.001
0.001	1.62	0.1	0.234	0.001

Date	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	K-D	LI-D	MG-D	MN-D	MO-D	NA-D	NI-D	P-D	PB-D	S-D	SB-D	SE-D	SH-D	SN-D	SR-D	TI-D	TL-D	V-D	ZN-D
2701000	<0.03	0.09	<0.05	<0.5	0.045	<0.01	<0.5	124.4	0.004	<0.05	<0.05	0.017	<0.1	5	<0.01	27.7	0.65	<0.02	24	<0.05	<1	<0.1	108	<0.3	<0.03	4.4	<0.1	0.369	0.016	<0.05	<0.1	
2702000	<0.03	0.003	<0.05	<0.5	0.126	<0.01	<0.5	131.2	<0.01	<0.05	<0.05	<0.02	<0.1	4	<0.01	30.1	0.37	<0.02	15	<0.05	<1	<0.1	102	<0.3	<0.03	6.1	<0.1	0.379	0.005	<0.05	<0.1	
2703000	<0.03	0.16	<0.05	<0.5	0.126	<0.01	<0.5	131.2	<0.01	<0.05	<0.05	<0.02	<0.1	4	<0.01	30.1	0.37	<0.02	15	<0.05	<1	<0.1	102	<0.3	<0.03	6.1	<0.1	0.379	0.005	<0.05	<0.1	
2704000	<0.03	0.03	<0.05	<0.5	0.024	<0.01	<0.5	113.6	<0.01	<0.05	<0.05	0.009	0.04	3	<0.01	28.9	1.25	<0.02	20	<0.05	<1	<0.1	120	<0.3	<0.03	4.4	<0.1	0.318	0.014	<0.05	<0.1	
1905000	<0.03	0.11	<0.05	<0.5	0.103	<0.01	<0.5	126.0	<0.01	<0.05	<0.05	0.009	0.04	3	<0.01	28.9	1.25	<0.02	21	<0.05	<1	<0.1	97	<0.3	<0.03	5.6	<0.1	0.399	0.008	<0.05	<0.1	
2706000	<0.03	<0.05	<0.05	<0.5	0.036	<0.01	<0.5	129.7	<0.01	<0.05	<0.05	0.016	0.02	6	<0.01	28.9	1.37	<0.02	26	<0.05	<1	<0.1	106	<0.3	<0.03	4.7	<0.1	0.347	0.011	0.005	<0.1	
2707000	<0.03	<0.05	<0.05	<0.5	0.027	<0.02	<0.5	111.2	0.002	0.016	<0.05	0.014	0.13	5	<0.01	26.7	1.12	<0.02	27	<0.05	<1	<0.1	106	<0.3	<0.03	4.7	<0.1	0.347	0.011	0.007	<0.1	
2708000	<0.03	0.2	<0.05	<0.5	0.029	<0.01	<0.5	119.5	<0.01	<0.05	<0.05	0.008	<0.1	5	<0.01	26.7	1.12	<0.02	27	<0.05	<1	<0.1	96	<0.3	<0.03	5.4	<0.1	0.349	0.007	<0.05	<0.1	
2709000	<0.03	<0.05	<0.05	<0.5	0.029	<0.01	<0.5	119.5	<0.01	<0.05	<0.05	0.008	<0.1	5	<0.01	26.7	1.12	<0.02	27	<0.05	<1	<0.1	96	<0.3	<0.03	5.4	<0.1	0.349	0.007	<0.05	<0.1	
1910000	<0.03	0.15	<0.05	<0.5	0.052	<0.01	<0.5	108	<0.001	<0.05	<0.05	0.002	0.12	5	<0.01	24.7	0.4	<0.02	23	<0.05	<0.3	<0.05	103	<0.3	<0.03	4.2	<0.1	0.35	0.006	<0.05	<0.1	
1911000	<0.01	<0.05	<0.2	<0.1	0.04	<0.005	<0.1	138	<0.001	<0.01	<0.01	<0.01	<0.01	4	<0.01	27.1	0.301	<0.01	23	<0.05	<0.3	<0.05	103	<0.3	<0.03	5.3	<0.1	0.407	<0.01	<0.3	<0.05	
1412000	<0.01	<0.05	<0.2	<0.1	0.04	<0.005	<0.1	131	<0.001	<0.01	<0.01	<0.01	<0.01	5	<0.01	27.4	0.31	<0.01	20	<0.05	<0.3	<0.05	109	<0.3	<0.03	4.2	<0.1	0.396	<0.01	<0.3	<0.05	

JAN 2000 - DEC 2000

Mean	Std. Deviation	Minimum Value	Maximum Value	Num. Values
0.005	0.11	0.034	0.06	121.1
0.003	0.05	0.005	0.05	1172
0.003	0.05	0.005	0.05	1172
0.001	0.22	0.1	0.256	0.001
0.001	0.22	0.1	0.256	0.001

STATION: WEIR, Srapane from central area of X-Valley Dam

Date	AG-T	AL-T	AS-T	B-T	BA-T	BE-T	BI-T	CA-T	CD-T	CO-T	CR-T	CU-T	FE-T	K-T	LI-T	MG-T	MN-T	MO-T	NA-T	NI-T	P-T	PB-T	S-T	SB-T	SE-T	SI-T	SN-T	SR-T	TI-T	TL-T	V-T	ZN-T
1910000	0.003	0.39	<0.05	0.06	0.248	0.003	<0.5	172.8	<0.01	<0.05	<0.05	0.045	0.82	7	<0.01	32.7	6.51	0.01	39	<0.05	<1	<0.1	144	<0.3	<0.05	6.8	<0.1	0.491	0.062	<0.05	0.04	
JAN 2000 - DEC 2000																																
Mean	0.003	0.39	0.005	0.06	0.248	0.003	0.05	172.8	0.001	0.005	0.005	0.045	0.82	7	<0.01	32.7	6.51	0.01	39	0.005	1	0.01	144	0.03	0.005	6.8	0.01	0.491	0.062	0.005	0.04	
Std. Deviation	0.003	0.39	0.005	0.06	0.248	0.003	0.05	172.8	0.001	0.005	0.005	0.045	0.82	7	<0.01	32.7	6.51	0.01	39	0.005	1	0.01	144	0.03	0.005	6.8	0.01	0.491	0.062	0.005	0.04	
Minimum Value	0.003	0.39	0.005	0.06	0.248	0.003	0.05	172.8	0.001	0.005	0.005	0.045	0.82	7	<0.01	32.7	6.51	0.01	39	0.005	1	0.01	144	0.03	0.005	6.8	0.01	0.491	0.062	0.005	0.04	
Maximum Value	0.003	0.39	0.005	0.06	0.248	0.003	0.05	172.8	0.001	0.005	0.005	0.045	0.82	7	<0.01	32.7	6.51	0.01	39	0.005	1	0.01	144	0.03	0.005	6.8	0.01	0.491	0.062	0.005	0.04	
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

Date	AO-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	K-D	LI-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	TL-D	V-D	ZN-D
1910000	<0.03	0.26	<0.05	<0.5	0.062	0.002	<0.5	162.6	<0.01	<0.05	<0.05	0.03	0.3	6	<0.01	32.1	3.75	0.01	38	<0.05	<1	<0.1	141	<0.3	<0.05	6.7	<0.1	0.531	0.014	<0.05	0.03	
JAN 2000 - DEC 2000																																
Mean	0.003	0.26	0.005	0.05	0.062	0.002	0.05	162.6	0.001	0.005	0.005	0.03	0.3	6	<0.01	32.1	3.75	0.01	38	0.005	1	0.01	141	0.03	0.005	6.7	0.01	0.531	0.014	0.005	0.03	
Std. Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Minimum Value	0.003	0.26	0.005	0.05	0.062	0.002	0.05	162.6	0.001	0.005	0.005	0.03	0.3	6	<0.01	32.1	3.75	0.01	38	0.005	1	0.01	141	0.03	0.005	6.7	0.01	0.531	0.014	0.005	0.03	
Maximum Value	0.003	0.26	0.005	0.05	0.062	0.002	0.05	162.6	0.001	0.005	0.005	0.03	0.3	6	<0.01	32.1	3.75	0.01	38	0.005	1	0.01	141	0.03	0.005	6.7	0.01	0.531	0.014	0.005	0.03	
Numer. Values	0.003	0.26	0.005	0.05	0.062	0.002	0.05	162.6	0.001	0.005	0.005	0.03	0.3	6	<0.01	32.1	3.75	0.01	38	0.005	1	0.01	141	0.03	0.005	6.7	0.01	0.531	0.014	0.005	0.03	

FARO SURFACE WATER QUALITY LISTING FOR 2000

STATION: X1A Combined average from Cross Valley Dam

Date	AG-T	AL-T	AS-T	B-T	BA-T	BE-T	BI-T	CA-T	CD-T	CO-T	CR-T	CU-T	FE-T	K-T	LI-T	MG-T	MR-T	MO-T	NA-T	NI-T	P-T	PD-T	S-D	SB-T	SE-T	SI-T	SN-T	SR-T	TI-T	TL-T	V-T	ZN-T
27/01/00	<0.03	0.31	<0.05	<0.5	0.167	0.002	<0.5	214.1	0.004	0.018	<0.05	0.041	1.97	7	39.6	8.39	8.56	<0.02	34	0.011	<1	0.02	192	<0.3	<0.05	5.9	<0.1	0.569	0.032	0.022	<0.1	
28/02/00	<0.03	0.37	<0.05	<0.5	0.151	<0.01	<0.5	221.4	0.001	<0.05	0.118	0.666	2.39	8	43.6	8.56	10.67	<0.02	40	0.021	<1	0.25	191	<0.3	<0.05	7.7	<0.1	0.658	0.052	0.011	0.18	
23/03/00	<0.03	0.53	<0.05	0.13	0.231	<0.01	<0.5	224.7	<0.01	0.047	<0.05	0.007	1.71	11	42.3	10.67	10.88	<0.02	27	<0.05	<1	<0.1	191	<0.3	<0.05	7.3	<0.1	0.678	0.066	<0.05	<0.1	
27/04/00	<0.03	0.37	<0.05	<0.5	0.206	0.002	<0.5	212.9	<0.01	0.014	<0.05	0.034	2.01	6	42.3	10.88	10.32	<0.02	31	0.015	<1	0.05	191	<0.3	<0.05	8.2	<0.1	0.637	0.063	<0.05	<0.1	
15/05/00	<0.03	0.23	<0.05	<0.5	0.175	<0.01	<0.5	245	<0.01	0.039	0.135	0.025	1.86	8	44.4	10.32	10.44	<0.02	38	0.014	<1	<0.1	191	<0.3	<0.05	8.2	<0.1	0.792	0.033	<0.05	0.04	
26/06/00	<0.03	0.24	<0.05	0.06	0.168	0.003	<0.5	227	0.002	<0.05	<0.05	0.031	1.36	8	41.9	10.44	10.14	<0.02	27	0.025	<1	0.01	191	<0.3	<0.05	6.2	<0.1	0.59	0.045	0.025	0.05	
27/07/00	<0.03	0.38	<0.05	<0.5	0.128	0.003	<0.5	228.8	<0.01	<0.05	<0.05	0.028	1.52	8	47.2	10.14	10.58	<0.02	39	0.026	<1	<0.1	191	<0.3	<0.05	7.2	<0.1	0.643	0.032	<0.05	0.07	
21/08/00	<0.01	<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	<0.01	39	<0.05	<0.3	<0.05	174	<0.3	<0.05	7.2	<0.1	0.643	<0.01	<0.05	0.023	
19/10/00	<0.03	0.44	<0.05	<0.5	0.23	0.003	<0.5	208.7	<0.01	0.069	<0.05	0.048	4.5	8	0.01	38.6	8.59	<0.02	40	0.01	<1	<0.1	174	<0.3	<0.05	6.9	<0.1	0.617	0.096	<0.05	0.04	
18/11/00	<0.01	0.66	<0.2	<0.1	0.07	<0.005	<0.1	269	<0.001	0.01	<0.01	<0.01	2.51	6	0.01	45.3	11.4	<0.01	43	<0.05	<0.3	<0.05	174	<0.3	<0.05	7.42	<0.03	0.709	<0.01	<0.05	0.019	
14/12/00	<0.01	<0.05	<0.2	<0.1	0.09	<0.005	<0.1	257	<0.001	0.01	<0.01	<0.01	2.42	6	0.02	45.3	10.1	<0.01	37	<0.05	<0.3	<0.05	174	<0.3	<0.05	7	<0.03	0.653	<0.01	<0.05	0.014	
JAN 2000 - DEC 2000																																
Mean	0.005	0.28	0.055	0.07	0.146	0.003	0.06	234.3	0.002	0.016	0.036	0.078	2.26	7	0.01	43.7	10.08	0.004	37	0.025	0.9	0.03	186	0.08	0.034	6.99	0.01	0.661	0.037	0.2	0.017	0.041
Std. Deviation	0.003	0.16	0.037	0.03	0.059	0.002	0.02	21.3	0.002	0.013	0.038	0.186	0.8	2	0.01	2.9	1.03	0.004	5	0.016	0.5	0.02	10	0.04	0.088	0.63	0.01	0.667	0.027	0.1	0.013	0.048
Minimum Value	0.003	0.05	0.005	0.05	0.06	0.001	0.05	208.7	0.001	0.003	0.005	0.007	1.36	5	0.01	38.6	8.39	0.002	27	0.005	0.3	0.01	174	0.03	0.003	5.9	0.01	0.569	0.006	0.2	0.005	0.01
Maximum Value	0.01	0.55	0.2	0.13	0.231	0.005	0.1	269	0.009	0.047	0.145	0.666	4.5	11	0.02	48.4	11.4	0.01	43	0.05	2	0.05	192	0.2	0.2	8.2	0.03	0.792	0.096	0.3	0.037	0.18
Num. Values																																
Date	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	K-D	LI-D	MG-D	MR-D	MO-D	NA-D	NI-D	P-D	PD-D	S-D	SB-D	SE-D	SI-D	SN-D	SR-D	TI-D	TL-D	V-D	ZN-D
27/01/00	<0.03	0.18	<0.05	<0.5	0.074	0.002	<0.5	214.1	<0.01	<0.05	<0.05	0.023	<0.1	6	41.1	6.91	6.91	<0.02	36	<0.05	3	<0.1	199	<0.3	<0.05	6	<0.1	0.599	0.074	<0.05	<0.1	
28/02/00	<0.03	0.24	<0.05	<0.5	0.166	<0.01	<0.5	214.7	<0.01	<0.05	<0.05	0.029	0.98	7	42.8	6.12	6.12	<0.02	40	<0.05	<1	<0.1	199	<0.3	<0.05	6.4	<0.1	0.601	0.014	<0.05	<0.1	
23/03/00	<0.03	0.43	<0.05	0.06	0.125	<0.01	<0.5	216	<0.01	0.033	<0.05	0.027	0.91	7	43.4	8.7	8.7	<0.02	25	<0.05	<1	<0.1	196	<0.3	<0.05	7.4	<0.1	0.676	0.026	<0.05	<0.1	
27/04/00	<0.03	0.26	<0.05	<0.5	0.057	0.001	<0.5	206.4	<0.01	<0.05	<0.05	0.018	0.28	6	41.5	8.92	8.92	<0.02	31	<0.05	<1	<0.1	211	<0.3	<0.05	6.2	<0.1	0.578	0.026	<0.05	<0.1	
15/05/00	<0.03	0.24	<0.05	<0.5	0.038	0.002	<0.5	232.7	<0.01	<0.05	<0.05	0.022	0.07	7	40.7	7.02	7.02	<0.02	37	0.006	<1	<0.1	17	<0.3	<0.05	7.9	<0.1	0.732	0.038	<0.05	0.01	
26/06/00	<0.03	0.09	<0.05	<0.5	0.052	0.002	<0.5	213.2	<0.01	0.03	<0.05	0.021	0.21	7	44.8	5.84	5.84	<0.02	45	0.02	<1	<0.1	219	<0.3	<0.05	6.3	<0.1	0.569	0.019	<0.05	<0.1	
25/07/00	<0.03	0.23	<0.05	<0.5	0.037	0.001	<0.5	207.8	<0.01	<0.05	<0.05	0.018	0.11	7	43.4	6.12	6.12	<0.02	29	0.017	<1	<0.1	219	<0.3	<0.05	6.3	<0.1	0.734	0.018	0.017	<0.1	
27/08/00	<0.03	0.23	<0.05	<0.5	0.052	0.001	<0.5	211.1	<0.01	<0.05	<0.05	0.018	0.11	7	43.4	6.12	6.12	<0.02	29	0.017	<1	<0.1	219	<0.3	<0.05	6.6	<0.1	0.736	0.011	<0.05	<0.1	
27/09/00	<0.03	0.23	<0.05	<0.5	0.052	0.001	<0.5	211.1	<0.01	<0.05	<0.05	0.018	0.11	7	43.4	6.12	6.12	<0.02	29	0.017	<1	<0.1	219	<0.3	<0.05	6.6	<0.1	0.736	0.011	<0.05	<0.1	
19/10/00	<0.03	0.23	<0.05	<0.5	0.052	0.002	<0.5	211.1	<0.01	<0.05	<0.05	0.018	0.11	7	43.4	6.12	6.12	<0.02	32	<0.05	<0.3	<0.05	178	<0.3	<0.05	6.7	<0.1	0.734	0.014	<0.05	<0.1	
18/11/00	<0.01	0.65	<0.2	<0.1	0.07	<0.005	<0.1	269	<0.001	0.01	<0.01	<0.01	2.51	6	0.01	43.9	5.17	<0.02	41	<0.05	<0.3	<0.05	178	<0.3	<0.05	6.7	<0.1	0.734	0.014	<0.05	<0.1	
14/12/00	<0.01	<0.05	<0.2	<0.1	0.09	<0.005	<0.1	258	<0.001	0.01	<0.01	<0.01	2.42	6	0.02	43.8	10.1	<0.01	37	<0.05	<0.3	<0.05	178	<0.3	<0.05	6.84	<0.03	0.665	<0.01	<0.05	0.006	
JAN 2000 - DEC 2000																																
Mean	0.005	0.18	0.054	0.06	0.166	0.002	0.06	216.5	0.001	0.01	0.037	0.018	0.2	6	0.01	42.3	7.45	0.004	37	0.019	1.0	0.02	183	0.07	0.054	6.03	0.01	0.624	0.017	0.3	0.012	0.059
Std. Deviation	0.003	0.12	0.025	0.02	0.052	0.001	0.02	21.6	0.001	0.003	0.008	0.226	0.26	2	0.01	3.1	1.24	0.004	5	0.012	0.7	0.02	70	0.04	0.088	5.7	0.01	0.654	0.011	0.1	0.011	0.059
Minimum Value	0.003	0.05	0.005	0.05	0.06	0.001	0.05	208.7	0.001	0.003	0.005	0.007	0.91	4	0.01	33.7	5.58	0.002	25	0.005	0.3	0.01	17	0.03	0.003	5.7	0.01	0.483	0.005	0.2	0.005	0.006
Maximum Value	0.01	0.43	0.2	0.1	0.125	0.005	0.1	258	0.003	0.03	0.145	0.666	0.93	7	0.02	46	11	0.01	45	0.05	3	0.05	238	0.2	0.2	7.9	0.03	0.734	0.038	0.3	0.03	0.01
Num. Values																																

FARO SURFACE WATER QUALITY LISTING FOR 2000

STATION: N14, Base Cr downstream of the diversion channel

Date	AG-T	AL-T	AS-T	B-T	BA-T	BE-T	BI-T	CA-T	CD-T	CO-T	CR-T	CU-T	FE-T	K-T	LI-T	MG-T	MN-T	MO-T	NA-T	NI-T	P-T	PD-T	S-T	SB-T	SE-T	SF-T	SN-T	SK-T	TI-T	TL-T	V-T	ZN-T	
2761000	<0.03	0.2	<0.05	<0.5	0.166	0.001	<0.1	97.7	0.007	<0.05	<0.05	0.027	0.48	4	<0.01	19.7	2.02	<0.02	14	0.011	1	0.02	<0.3	<0.05	4.4	<0.1	0.307	0.022	<0.05	<0.05	0.02		
2761200	<0.03	0.24	<0.05	<0.5	0.143	<0.01	<0.1	91.5	<0.01	0.003	0.016	0.032	0.55	4	<0.01	21.4	1.81	<0.02	13	0.027	<1	0.02	62	<0.3	<0.05	5.3	<0.1	0.346	0.027	<0.05	<0.05	0.64	
2761400	<0.03	0.27	<0.05	<0.5	0.201	<0.01	<0.1	99.3	0.003	0.003	0.006	0.009	0.26	7	<0.01	20.8	2.38	<0.02	9	0.009	<1	<0.1	63	<0.3	<0.05	5.9	<0.1	0.376	<0.05	<0.05	0.63		
2761600	<0.03	0.25	<0.05	<0.5	0.193	<0.01	<0.1	113.3	0.003	0.003	0.006	0.026	0.42	7	<0.01	23.8	3.52	<0.02	16	<0.05	<1	<0.1	63	<0.3	<0.05	5.1	<0.1	0.376	0.047	<0.05	0.69		
2761800	<0.03	0.25	0.022	<0.5	0.109	<0.01	<0.1	37.3	<0.01	0.014	0.148	0.008	0.75	4	<0.01	7.8	0.51	<0.02	<1	<0.05	<1	<0.1	<0.3	<0.05	4	<0.1	0.24	0.023	<0.05	0.67			
2762000	<0.03	0.11	<0.05	<0.5	0.125	<0.01	<0.1	10.7	<0.01	0.003	0.006	0.008	0.58	4	<0.01	12.2	0.69	<0.02	9	0.014	<1	<0.1	<0.3	<0.05	3.1	<0.1	0.265	0.025	0.022	0.14			
2762200	<0.03	0.27	<0.05	<0.5	0.116	<0.01	<0.1	39	<0.01	<0.05	<0.05	0.004	0.35	2	<0.01	8.5	0.37	<0.02	5	0.019	<1	<0.1	<0.3	<0.05	4.9	<0.1	0.139	0.019	<0.05	0.1			
2762400	<0.01	0.06	<0.2	<0.1	0.04	<0.005	<0.1	28.6	<0.01	<0.01	<0.01	<0.01	0.22	<2	<0.01	6.5	0.14	<0.01	2	<0.05	<0.3	<0.2	<0.3	<0.05	4.9	<0.1	0.12	<0.3	<0.05	0.01			
2762600	<0.03	0.24	<0.05	<0.5	0.231	0.002	<0.5	44.7	<0.01	<0.05	<0.05	0.024	0.75	3	<0.01	10.4	0.43	<0.02	7	<0.05	3	<0.1	28	<0.3	<0.05	5.2	<0.1	0.195	0.062	0.014	0.67		
2762800	<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	<0.01	13.5	0.866	<0.01	7	<0.05	<0.3	<0.3	<0.3	<0.05	5.23	<0.03	0.244	<0.01	<0.2	<0.03	0.688		
2763000	<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	<0.01	7	<0.05	<0.3	<0.3	<0.2	<0.2	<0.2	5.47	<0.03	0.263	<0.01	<0.3	0.691		
JAN 2000 - DEC 2000																																	
Mean	0.005	0.17	0.055	0.07	0.13	0.002	0.06	66	0.002	0.011	0.019	0.015	0.43	3	0.01	14	1.04	0.004	8	0.019	1.5	0.02	51	0.07	0.084	4.64	0.01	0.255	0.024	0.2	0.013	0.117	
Std. Deviation	0.003	0.09	0.087	0.03	0.059	0.002	0.02	28.8	0.002	0.011	0.041	0.009	0.19	1	0	6	1.03	0.004	5	0.019	1.9	0.02	20	0.08	0.088	0.99	0.01	0.093	0.016	0	0.011	0.109	
Minimum Value	0.003	0.05	0.005	0.05	0.04	0.001	0.03	28.6	0.001	0.003	0.005	0.004	0.21	2	0.01	6.3	0.14	0.002	1	0.005	0.3	0.01	28	0.03	0.005	2.6	0.01	0.12	0.005	0.2	0.003	0.01	
Maximum Value	0.01	0.27	0.2	0.14	0.231	0.005	0.1	113.3	0.007	0.043	0.148	0.032	0.75	7	0.01	23.8	3.52	0.01	16	0.05	7	0.05	63	0.2	0.2	5.9	0.03	0.387	0.062	0.2	0.03	0.64	
Num. Values	12	12	12	12	12	12	12	12	12	12	12	12	12	12	3	12	12	12	12	12	12	12	3	12	12	12	12	12	12	3	12	12	
Date	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	K-D	LI-D	MG-D	MN-D	MO-D	NA-D	NI-D	P-D	PD-D	S-D	SB-D	SE-D	SF-D	SN-D	SK-D	TI-D	TL-D	V-D	ZN-D	
2761000	<0.03	<0.5	<0.05	<0.5	0.048	<0.01	<0.1	39.6	0.001	<0.05	<0.05	0.009	0.05	3	<0.01	18	2.13	<0.02	13	<0.05	<1	<0.1	<0.3	<0.3	<0.05	4.1	<0.1	0.278	0.099	<0.05	<0.1		
2761200	<0.03	0.14	<0.05	<0.5	0.033	<0.01	<0.1	89.3	<0.01	<0.05	<0.05	0.015	0.16	4	<0.01	19.1	1.72	<0.02	14	<0.05	<1	<0.1	60	<0.3	<0.05	5.4	<0.1	0.232	<0.05	<0.05	<0.1		
2761400	<0.03	0.13	<0.05	<0.5	0.146	<0.01	<0.1	96.9	<0.01	<0.05	<0.05	0.016	0.19	2	<0.01	20	2.18	<0.02	6	<0.05	<1	<0.1	62	<0.3	<0.05	6	<0.1	0.368	<0.05	<0.05	<0.1		
2761600	<0.03	0.15	<0.05	<0.5	0.042	0.001	<0.1	107.4	<0.01	<0.05	<0.05	0.016	0.19	2	<0.01	22.9	2.49	<0.02	15	<0.05	<1	<0.1	108	<0.3	<0.05	4.5	<0.1	0.289	0.016	<0.05	<0.1		
2761800	<0.03	<0.5	0.009	<0.5	0.008	<0.01	<0.1	29	<0.01	<0.05	<0.05	0.002	0.26	<1	<0.01	6.9	0.26	<0.02	<1	<0.05	<1	<0.1	28	<0.3	<0.05	3.4	<0.1	0.145	<0.05	<0.05	<0.1		
2762000	<0.03	<0.5	<0.05	<0.5	0.023	<0.01	<0.1	44.2	<0.01	0.025	<0.05	0.003	<0.01	3	<0.01	8.1	0.86	<0.02	5	<0.05	3	<0.1	28	<0.3	<0.05	2.5	<0.1	0.112	<0.05	<0.05	0.03		
2762200	<0.03	0.11	<0.05	<0.5	0.016	<0.01	<0.1	34.2	<0.01	0.025	<0.05	0.007	0.17	3	<0.01	11.5	1	<0.02	9	0.011	<1	<0.1	51	<0.3	<0.05	2.8	<0.1	0.251	0.005	0.027	<0.1		
2762400	<0.03	0.11	<0.05	<0.5	0.016	<0.01	<0.1	34.2	<0.01	0.025	<0.05	0.007	0.17	3	<0.01	11.5	1	<0.02	9	0.011	<1	<0.1	51	<0.3	<0.05	2.8	<0.1	0.251	0.005	0.027	<0.1		
2762600	<0.03	0.11	<0.05	<0.5	0.016	<0.01	<0.1	34.2	<0.01	0.025	<0.05	0.007	0.17	3	<0.01	11.5	1	<0.02	9	0.011	<1	<0.1	51	<0.3	<0.05	2.8	<0.1	0.251	0.005	0.027	<0.1		
2762800	<0.03	0.11	<0.05	<0.5	0.016	<0.01	<0.1	34.2	<0.01	0.025	<0.05	0.007	0.17	3	<0.01	11.5	1	<0.02	9	0.011	<1	<0.1	51	<0.3	<0.05	2.8	<0.1	0.251	0.005	0.027	<0.1		
2763000	<0.01	<0.05	<0.2	<0.1	0.04	<0.005	<0.1	40.5	<0.01	<0.05	<0.05	<0.05	0.32	2	<0.01	6.5	0.108	<0.01	2	<0.05	<0.3	<0.3	<0.3	<0.05	4.52	<0.03	0.155	<0.01	<0.3	0.007	<0.1		
2763200	<0.03	0.13	<0.05	<0.5	0.029	<0.01	<0.1	46.5	<0.01	<0.05	<0.05	0.011	0.32	2	<0.01	9.4	0.41	<0.02	7	<0.05	<1	<0.1	23	<0.3	<0.05	5	<0.1	0.142	<0.05	<0.05	<0.1		
2763400	<0.01	<0.05	<0.2	<0.1	0.07	<0.005	<0.1	67.1	<0.001	<0.01	<0.01	<0.01	0.05	<2	<0.01	13.7	0.885	<0.01	6	<0.05	<0.3	<0.3	<0.2	<0.2	<0.2	5.46	<0.03	0.265	<0.01	<0.3	0.039		
2763600	<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	<0.01	8	<0.05	<0.3	<0.3	<0.2	<0.2	<0.2	5.46	<0.03	0.265	<0.01	<0.3	0.039		
JAN 2000 - DEC 2000																																	
Mean	0.005	0.09	0.054	0.06	0.044	0.002	0.06	62.4	0.001	0.01	0.019	0.006	0.12	2	0.01	13.2	1.27	0.004	8	0.017	1.0	0.02	53	0.07	0.084	4.4	0.01	0.219	0.007	0.2	0.013	0.03	
Std. Deviation	0.003	0.04	0.037	0.03	0.037	0.001	0.02	28.6	0	0.009	0.002	0.005	0.11	1	0	5.8	0.42	0.004	5	0.02	0.2	0.02	29	0.08	0.088	1.09	0.01	0.047	0.004	0	0.012	0.022	
Minimum Value	0.003	0.05	0.005	0.05	0.004	0.001	0.05	28.9	0.001	0.003	0.005	0.003	0.01	1	0.01	6.5	0.08	0.002	1	0.005	0.3	0.01	22	0.03	0.005	2.5	0.01	0.112	0.005	0.2	0.003	0.007	
Maximum Value	0.01	0.15	0.2	0.1	0.146	0.005	0.1	107.4	0.001	0.031	0.01	0.016	0.32	4	0.01	22.9	2.49	0.01	15	0.05	3	0.03	108	0.2	0.2	6	0.03	0.368	0.016	0.2	0.03	0.041	
Num. Values	12	12	12	12	12	12	12	12	12	12	12	12	12	12	3	12	12	12	12	12	12	12	8	12	12	12	12	12	12	3	12	12	

FARO SURFACE WATER QUALITY LISTING FOR 2000

STATION: N21R, Faro Pit water while filling with fillings

Date	AG-T	AL-T	AS-T	B-T	BA-T	BE-T	BI-T	CA-T	CD-T	CO-T	CR-T	CU-T	FE-T	K-T	LI-T	MG-T	MN-T	MO-T	NA-T	NI-T	P-T	PB-T	S-T	SB-T	SE-T	SI-T	SN-T	SR-T	TI-T	TL-T	V-T	ZN-T	
21/03/00	<0.03	0.36	<0.05	0.11	0.155	<0.01	<0.05	151	0.008	0.009	<0.05	0.018	0.07	15	53.6	2.72	0.006	20	0.016	23	0.018	41	<0.1	191	<0.05	3.8	<0.1	0.432	0.039	<0.05	7.49		
15/05/00	<0.03	0.52	0.009	<0.05	0.088	<0.01	<0.05	153.8	0.01	0.041	0.101	0.026	0.79	12	54.6	2.73	0.016	20	0.018	23	0.018	2	0.04	<0.1	<0.05	2.7	<0.1	0.494	0.039	<0.05	5.51		
26/05/00	<0.03	0.26	<0.05	<0.05	0.086	0.002	<0.05	136.3	0.008	0.042	<0.05	0.037	0.16	12	48.4	2.36	<0.02	22	<0.05	22	0.081	12	<0.1	<0.05	2.8	<0.1	0.369	0.044	0.036	7.64			
21/07/00	<0.03	0.31	<0.05	<0.05	0.11	0.002	<0.05	132.3	0.017	0.009	0.046	0.033	0.35	11	47.2	2.4	0.03	25	0.102	3	<0.1	<0.1	<0.05	<0.05	2.4	<0.1	0.504	0.032	0.032	8.09			
29/08/00	<0.03	0.31	<0.05	<0.05	0.093	<0.01	<0.05	153.3	0.016	0.009	<0.05	0.03	0.28	13	53.7	2.47	<0.02	25	0.102	3	<0.1	<0.1	<0.05	<0.05	2.7	<0.1	0.413	0.027	0.019	8.16			
21/09/00	<0.01	0.09	<0.2	<0.1	0.02	<0.05	<0.1	142	0.009	0.001	<0.05	0.031	0.2	12	50.2	2.1	0.01	24	0.081	7	<0.1	<0.1	<0.05	<0.05	2.4	<0.1	0.429	0.051	<0.05	9.02			
22/10/00	<0.03	0.42	<0.05	<0.05	0.17	0.002	<0.05	135.6	0.016	0.001	<0.05	0.031	0.43	12	0.2	239	9.84	0.03	98	0.1	<0.3	<0.05	<0.2	<0.2	13.1	<0.3	1.63	<0.01	<0.2	46.3			
18/11/00	<0.01	0.1	<0.2	<0.1	0.08	<0.05	<0.1	540	0.015	0.16	<0.01	0.09	0.15	42	0.2	239	9.84	0.03	98	0.1	<0.3	<0.05	<0.2	<0.2	13.1	<0.3	1.63	<0.01	<0.2	46.3			
14/12/00	<0.01	<0.05	<0.2	<0.1	0.02	<0.05	<0.1	134	0.027	0.04	<0.01	0.04	0.05	7	0.64	61.9	2.21	<0.01	15	0.1	<0.3	<0.05	<0.2	<0.2	5.35	<0.03	0.451	<0.01	<0.2	26.2			
JAN 2000 - DEC 2000																																	
Mean	0.005	0.25	0.07	0.08	0.091	0.003	0.07	166.3	0.018	0.054	0.026	0.037	0.3	15	0.1	72.5	3.3	0.013	31	0.105	3.2	0.03	214	0.1	0.07	4.03	0.02	0.576	0.026	0.2	0.021	14.32	
Std. Deviation	0.003	0.17	0.097	0.103	0.061	0.002	0.08	125.9	0.015	0.051	0.026	0.033	0.25	7	0.09	58.8	2.46	0.01	25	0.075	3.9	0.03	237	0.08	0.08	3.62	0.01	0.397	0.018	0.2	0.013	13.54	
Minimum Value	0.003	0.05	0.002	0.03	0.005	0.001	0.05	130.8	0.004	0.001	0.005	0.01	0.15	10	46.2	2.21	0.002	15	0.038	0.3	0.02	0.05	191	0.03	0.005	2.4	0.01	0.369	0.005	0.2	0.005	5.51	
Maximum Value	0.01	0.52	0.2	0.11	0.17	0.005	0.1	540	0.055	0.16	0.101	0.09	0.79	42	0.2	229	9.84	0.03	98	0.3	12	0.05	237	0.2	0.2	13.1	0.03	1.63	0.037	0.2	0.036	46.3	
Num. Values	9	9	9	9	9	9	9	9	9	9	9	9	9	9	3	9	9	9	9	9	9	9	2	9	9	9	9	9	9	3	9	9	
Date	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	K-D	LI-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	TL-D	V-D	ZN-D	
23/03/00	<0.03	0.21	<0.05	<0.05	0.049	<0.01	<0.05	145.7	0.002	0.028	<0.05	<0.02	<0.1	9	52.1	2.69	<0.02	13	0.037	<1	<0.1	183	<0.3	<0.3	<0.05	2.8	<0.1	0.435	<0.05	<0.05	2.58		
15/05/00	<0.03	0.15	<0.05	<0.05	0.032	<0.01	<0.05	144.9	<0.01	0.032	<0.05	0.013	0.08	11	52.2	2.09	<0.02	24	0.038	<1	<0.1	183	<0.3	<0.3	<0.05	2.8	<0.1	0.436	<0.05	<0.05	1.17		
25/05/00	<0.03	<0.05	<0.05	<0.05	0.043	0.002	<0.05	128.6	<0.01	0.018	<0.05	0.015	<0.1	11	45.6	3.03	<0.02	23	0.04	4	<0.1	152	<0.3	<0.3	<0.05	2	<0.1	0.381	0.013	0.009	1.34		
21/07/00	<0.03	0.35	<0.05	<0.05	0.045	0.002	<0.05	125.9	0.004	0.01	<0.05	0.016	0.15	10	46.2	2.09	<0.02	26	0.053	<1	<0.1	179	<0.3	<0.3	<0.05	2.5	<0.1	0.444	0.013	0.009	1.54		
21/08/00	<0.03	0.19	<0.05	<0.05	0.034	<0.01	<0.05	142.9	0.004	0.003	<0.05	0.01	<0.1	11	50.5	58.1	2.27	<0.02	31	0.066	<1	<0.1	187	<0.3	<0.3	<0.05	2.5	<0.1	<0.05	7.06			
21/09/00	<0.01	0.08	<0.2	<0.1	0.02	<0.05	<0.1	142	0.009	0.04	<0.01	<0.01	0.1	10	0.05	54.5	2.6	<0.01	31	0.07	<0.3	<0.05	<0.2	<0.2	12.5	<0.03	0.434	<0.01	<0.3	9.09			
29/10/00	<0.03	0.27	<0.05	<0.05	0.071	0.002	<0.05	150	0.002	0.018	<0.05	0.028	0.19	13	55	3.49	0.018	31	0.034	<1	<0.1	260	<0.3	<0.3	<0.05	3.2	<0.1	0.5	0.014	0.006	1.87		
18/11/00	<0.01	<0.05	<0.2	<0.1	0.07	<0.05	<0.1	522	0.054	0.15	<0.01	0.07	<0.01	41	0.19	221	9.53	0.03	93	0.29	<0.3	<0.05	<0.2	<0.2	12.5	<0.03	1.57	<0.01	<0.3	44.7	<0.3	26.2	
14/12/00	<0.01	<0.05	<0.2	<0.1	0.02	<0.05	<0.1	134	0.026	0.04	<0.01	0.04	<0.01	8	0.05	62.5	2.22	0.01	16	0.1	<0.3	<0.05	<0.2	<0.2	5.82	<0.03	0.481	<0.01	<0.3	<0.3	26.2		
JAN 2000 - DEC 2000																																	
Mean	0.005	0.12	0.07	0.07	0.043	0.003	0.07	181.7	0.011	0.043	0.007	0.021	0.06	14	0.1	71	3.39	0.009	31	0.081	1.1	0.02	192	0.09	0.07	3.05	0.02	0.567	0.01	0.2	0.014	10.51	
Std. Deviation	0.003	0.09	0.098	0.09	0.019	0.002	0.03	127.9	0.018	0.041	0.002	0.021	0.07	10	0.28	56.5	2.34	0.01	24	0.081	1.1	0.02	40	0.08	0.08	0.08	3.43	0.01	0.378	0.003	0	0.012	15.15
Minimum Value	0.003	0.05	0.005	0.05	0.01	0.001	0.05	125.9	0.001	0.018	0.005	0.002	0.01	8	0.05	45.6	2.09	0.002	13	0.034	0.3	0.01	152	0.03	0.03	0.005	1.5	0.01	0.381	0.003	0	0.005	0.54
Maximum Value	0.01	0.27	0.2	0.2	0.071	0.005	0.1	522	0.054	0.15	0.01	0.07	0.19	41	0.19	221	9.53	0.03	93	0.29	4	0.05	260	0.2	0.2	12.5	0.03	1.57	0.014	0.2	0.03	44.7	9
Num. Values	9	9	9	9	9	9	9	9	9	9	9	9	9	9	3	9	9	9	9	9	9	9	5	9	9	9	9	9	9	2	9	9	

FARO SURFACE WATER QUALITY LISTING FOR 2000

STATION: N31, Old Fox Creek channel at tee of waste dumps

Date	AG-T	AL-D	AS-D	BA-D	BE-D	BI-D	CA-D	CD-D	CO-D	CR-D	CU-D	FE-D	K-D	LI-D	MG-D	MN-D	MO-D	NA-D	NI-D	P-D	PH-D	S-D	SB-D	SE-D	SH-D	SN-D	SR-D	TH-D	TL-D	V-D	ZN-D	
26/01/00	<0.03	0.83	<0.05	0.12	0.004	<0.5	597.8	0.699	0.237	<0.05	0.09	0.5	18	0.354	12	0.33	0.09	50	0.354	12	0.33	0.09	<0.3	<0.05	7.8	<0.1	3.416	0.07	<0.05	81.04		
27/01/00	<0.03	0.93	<0.05	0.08	0.12	0.004	<0.5	598.6	0.646	0.129	<0.05	0.08	2.2	14	0.394	1	0.27	0.102	56	0.394	1	0.27	0.102	0.06	<0.05	9.4	<0.1	3.199	0.079	<0.05	80.21	
27/04/00	<0.03	0.93	<0.05	0.08	0.12	0.004	<0.5	498.4	0.646	0.129	<0.05	0.08	2.2	14	0.394	1	0.27	0.102	56	0.394	1	0.27	0.102	0.06	<0.05	9.4	<0.1	3.199	0.079	<0.05	80.21	
15/05/00	<0.03	0.64	0.081	<0.05	0.082	0.002	<0.5	516.8	0.458	0.160	<0.05	0.078	2.3	14	0.13	0.13	0.26	0.102	56	0.13	0.13	0.26	0.102	0.06	<0.05	8.2	<0.1	3.198	0.088	<0.05	57.48	
26/06/00	<0.03	0.78	<0.05	0.089	0.006	<0.5	568.5	0.659	0.160	<0.05	0.078	2.3	14	0.13	0.13	0.26	0.102	56	0.13	0.13	0.26	0.102	0.06	<0.05	7.9	<0.1	3.285	0.062	0.029	61.64		
25/07/00	<0.03	0.91	<0.05	0.097	0.003	<0.5	570.6	0.071	0.214	0.005	0.121	0.095	0.31	17	0.428	24	0.427	0.095	51	0.428	24	0.427	0.095	0.07	<0.05	8.1	<0.1	3.285	0.069	<0.05	70.73	
29/08/00	<0.03	0.92	<0.05	0.12	0.004	0.002	<0.5	568.6	0.448	0.386	0.036	<0.05	0.218	3.2	20	0.357	25.53	30.98	0.245	53	0.357	25.53	30.98	0.09	<0.05	8.1	<0.1	3.635	0.069	<0.05	70.73	
29/09/00	<0.03	0.92	<0.05	0.12	0.004	0.002	<0.5	568.6	0.448	0.386	<0.05	0.218	3.2	20	0.357	25.53	30.98	0.245	53	0.357	25.53	30.98	0.09	<0.05	8.1	<0.1	3.635	0.069	<0.05	70.73		
29/10/00	<0.03	0.999	1.27	0.443	0.11	0.16	0.007	0.26	562.5	0.655	1.1	<0.05	0.167	18.1	19	0.16	0.07	72.5	88.8	1.33	61	1.607	107	2.76	<0.4	<0.4	10.7	<0.1	4.155	0.124	<0.4	223.36
18/11/00	<0.02	<0.1	<0.2	<0.2	<0.02	<0.01	<0.2	560	0.13	0.85	<0.02	0.02	176	15	0.15	0.16	997	93	<0.02	62	<0.4	<0.4	<0.4	<0.4	<0.4	8.4	<0.06	4	<0.02	<0.4	845	
14/12/00	<0.02	<0.1	<0.2	<0.2	<0.02	<0.01	<0.2	560	0.13	0.85	<0.02	0.02	176	15	0.15	0.16	997	93	<0.02	62	<0.4	<0.4	<0.4	<0.4	<0.4	8.4	<0.06	3.64	<0.02	<0.4	848	
JAN 2000 - DEC 2000	Mean	0.08	0.159	0.1	0.093	0.006	0.11	577.7	0.203	0.508	0.009	0.154	46.66	17	0.16	0.16	567.8	46.28	53	0.722	19.9	0.55	2430	0.44	0.113	8.5	0.02	3.599	0.062	0.4	0.022	354.29
Std. Deviation	0.003	0.17	0.07	0.07	0.015	0.003	0.05	472.8	0.15	0.15	0.003	0.003	7.38	14	0.15	0.15	381.8	23.93	38	0.249	0.6	0.01	1012	0.03	0.003	6.8	0.01	3.164	0.02	0.4	0.003	57.48
Minimum Value	0.02	1.27	0.443	0.1	0.16	0.01	0.26	498.4	0.655	1.1	0.02	0.046	18.1	11	0.13	0.13	997	93	1.23	62	1.607	107	2.76	2.76	0.4	10.7	0.06	4.155	0.124	0.4	0.06	1730
Num. Values	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	2	11	11	11	11	11	11	11	3	11	11
26/01/00	<0.03	0.64	<0.05	0.088	0.004	<0.5	567.5	0.029	0.185	<0.05	0.062	0.31	16	0.15	0.15	0.15	712	64.3	<0.02	56	1.1	<0.6	<0.6	<0.05	8.6	<0.1	3.504	0.248	<0.4	<0.6	415	
26/02/00	<0.03	0.68	<0.05	0.178	0.002	<0.5	566.9	0.025	0.115	<0.05	0.064	1.85	16	0.15	0.15	0.15	712	64.3	<0.02	56	1.1	<0.6	<0.6	<0.05	8.6	<0.1	3.504	0.248	<0.4	<0.6	415	
26/03/00	<0.03	0.77	<0.05	0.279	0.004	<0.5	472.8	0.104	0.107	<0.05	0.064	1.62	13	0.14	0.14	0.14	683	82.9	1.12	56	1.49	98	3.57	<0.05	8.6	<0.1	3.903	0.448	0.315	1120	0.016	812
26/04/00	<0.03	0.34	0.042	<0.05	0.023	<0.5	480.7	0.036	0.185	<0.05	0.064	1.62	13	0.14	0.14	0.14	683	82.9	1.12	56	1.49	98	3.57	<0.05	8.6	<0.1	3.903	0.448	0.315	1120	0.016	812
26/05/00	<0.03	0.48	<0.05	0.103	0.005	<0.5	449.7	0.033	0.185	<0.05	0.064	1.62	13	0.14	0.14	0.14	683	82.9	1.12	56	1.49	98	3.57	<0.05	8.6	<0.1	3.903	0.448	0.315	1120	0.016	812
26/06/00	<0.03	0.48	<0.05	0.103	0.005	<0.5	449.7	0.033	0.185	<0.05	0.064	1.62	13	0.14	0.14	0.14	683	82.9	1.12	56	1.49	98	3.57	<0.05	8.6	<0.1	3.903	0.448	0.315	1120	0.016	812
26/07/00	<0.03	0.74	<0.05	<0.05	0.048	0.003	<0.5	635.6	0.398	<0.05	0.248	2.69	19	0.16	0.16	0.16	712	64.3	<0.02	56	1.1	<0.6	<0.6	<0.05	8.6	<0.1	3.504	0.248	<0.4	<0.6	415	
26/08/00	<0.03	<0.1	<0.2	<0.05	<0.01	<0.2	598	0.072	0.71	<0.02	0.03	11.7	16	0.15	0.15	0.15	712	64.3	<0.02	56	1.1	<0.6	<0.6	<0.05	8.6	<0.1	3.504	0.248	<0.4	<0.6	415	
26/09/00	<0.03	<0.1	<0.2	<0.05	<0.01	<0.2	598	0.072	0.71	<0.02	0.03	11.7	16	0.15	0.15	0.15	712	64.3	<0.02	56	1.1	<0.6	<0.6	<0.05	8.6	<0.1	3.504	0.248	<0.4	<0.6	415	
26/10/00	<0.03	1.32	0.409	0.12	1.03	0.006	0.21	533.8	1.607	1.2	<0.05	0.185	104.6	18	0.15	0.15	683	82.9	1.12	56	1.49	98	3.57	<0.05	8.6	<0.1	3.903	0.448	0.315	1120	0.016	812
26/11/00	<0.02	<0.1	<0.2	<0.02	<0.01	<0.2	596	0.169	1.01	<0.02	0.03	97.5	15	0.15	0.15	0.15	683	82.9	1.12	56	1.49	98	3.57	<0.05	8.6	<0.1	3.903	0.448	0.315	1120	0.016	812
26/12/00	<0.02	<0.1	<0.2	<0.02	<0.01	<0.2	510	0.122	0.83	<0.02	<0.02	52.4	14	0.15	0.15	0.15	704	76.6	<0.02	56	1.2	<0.6	<0.6	<0.4	<0.4	<0.6	3.5	<0.02	<0.4	<0.6	635	
JAN 2000 - DEC 2000	Mean	0.08	0.159	0.1	0.093	0.006	0.11	577.7	0.203	0.508	0.009	0.154	46.66	17	0.16	0.16	567.8	46.28	53	0.722	19.9	0.55	2430	0.44	0.113	8.5	0.02	3.599	0.062	0.4	0.022	354.29
Std. Deviation	0.003	0.17	0.07	0.07	0.015	0.003	0.05	472.8	0.15	0.15	0.003	0.003	7.38	14	0.15	0.15	381.8	23.93	38	0.249	0.6	0.01	1012	0.03	0.003	6.8	0.01	3.164	0.02	0.4	0.003	57.48
Minimum Value	0.02	1.27	0.443	0.1	0.16	0.01	0.26	498.4	0.655	1.1	0.02	0.046	18.1	11	0.13	0.13	997	93	1.23	62	1.607	107	2.76	2.76	0.4	10.7	0.06	4.155	0.124	0.4	0.06	1730
Num. Values	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	2	11	11	11	11	11	11	11	3	11	11

STATION: N36, Zinc II (H water from well)

Date	AG-T	AL-T	AS-T	B-T	BA-T	BE-T	BI-T	CA-T	CD-T	CO-T	CR-T	CU-T	FE-T	K-T	LI-T	MG-T	MN-T	MO-T	NA-T	NI-T	P-T	PH-T	S-T	SB-T	SE-T	SH-T	SN-T	SR-T	TH-T	TL-T	V-T	ZN-T
25/05/00	<0.03	0.62	<0.05	0.082	0.005	0.005	<0.5	525.5	0.072	0.423	<0.05	0.056	30.64	18	0.2	217.8	14.01	<0.02	45	1.443	17	<0.1	<0.1	0.41	<0.05	5.7	<0.1	2.716	0.074	0.028	70.56	
25/07/00	<0.03	0.39	<0.05	0.087	0.005	0.005	<0.5	582.1	0.071	0.45	<0.05	0.056	21.05	15	0.2	169.9	9.81	0.066	34	1.212	11	<0.1	0.07	0.07	<0.05	5.6	<0.1	2.656	0.094	0.034	57.7	
29/08/00	<0.03	0.71	<0.05	0.087	0.005	0.005	<0.5	628.8	0.108	0.767	<0.05	0.061	90.11	20	0.2	266.1	16.74	0.08	50	1.832	13	<0.1	0.32	0.32	<0.05	7.5	<0.1	3.07	0.033	<0.05	99.64	
25/09/00	<0.02	<0.1	<0.4	<0.2	<0.02	<0.01	<0.2	529	0.025	0.6	<0.02	<0.02	70.3	15	0.2	260	15.8	<0.02	44	1.4	<0.6	<0.1	<0.4	<0.4	<0.4	5.6	<0.06	2.98	<0.02	<0.4	<0.06	99
JAN 2000 - DEC 2000	Mean	0.45	0.104	0.09	0.065	0.006	0.09	546.6	0.069	0.61	0.009	0.046	53.03	17	0.2	238.5	14.09	0.042	43	1.472	10.4	0.03	0.3	0.16	0.16	6.1	0.02	2.855	0.051	0.4	0.032	81.57
Std. Deviation	0.008	0.27	0.198	0.08	0.031	0.003	0.08	44.5	0.034	0.13	0.007	0.019	22.65	2	0	44.6	3.07	0.037	7	0.26	7	0.03	0.03	0.03	0.03	0.02	0.02	0.201	0.023	0	0.023	20.82
Minimum Value	0.003	0.1	0.005	0.05	0.03	0.003	0.05	505.1	0.025	0.45	0.005	0.02	21.05	15	0.2	169.9	9.81	0.066	34	1.212	0.6	0.01	0.07	0.07	0.005	5.6	0.01	2.656	0.02	0.4	0.005	57.7
Maximum Value	0.02	0.71	0.4	0.2	0.087	0.01	0.2	628.8	0.108	0.767	0.02	0.061	90.11	20	0.2	266.1	16.74	0.08	50	1.832	17	0.1	0.4	0.4	0.4	7.5	0.06	3.07	0.074	0.4	0.06	99.64
Num. Values	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	

Date	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	K-D	LI-D	MG-D	MN-D	MO-D	NA-D	NI-D	P-D	PH-D	S-D	SB-D	SE-D	SH-D	SN-D	SR-D	TH-D	TL-D	V-D	ZN-D
20/05/00	<0.03	0.34	<0.05	<0.05	0.128	0.004	<0.5	474.8	0.056	0.598	<0.05	0.043	1.65	16	0.2	199.8	12.84	<0.02	40	1.186	11	<0.1	643	0.34	<0.05	4.3	<0.1	2.633	0.041	<0.05	52.29	
25/07/00	<0.03	0.26	<0.05	<0.05	0.13	0.004	<0.5	487.9	0.037	0.312	<0.05	0.04	0.36	14	0.2	172.1	10.82	0.039	35	0.939	<1	<0.1	568	<0.03	<0.05	4.2	<0.1	2.585	0.038	<0.05	25.75	
29/08/00	<0.03	0.6	<0.05	<0.05	0.053	0.002	<0.5	571.9	0.099	0.076	<0.05	0.121	53.98	20	0.2	248	15.4	0.057	48	1.643	17	<0.1	762	0.17	<0.05	6.2	<0.1	2.863	0.044	<0.05	99.3	
25/09/00	<0.02	<0.1	<0.4	<0.2	<0.02	<0.01	<0.2	570	0.028	0.65	<0.02	<0.02	68.3	16	0.2	290	17.1	<0.02	48	1.6	<0.6	<0.1	<0.4	<0.4	6	<0.06	3.16	<0.02	<0.4	<0.06	94	
JAN 2000 - DEC 2000	Mean	0.48	0.083	0.09	0.053	0.003	0.09	525.4	0.053	0.441	0.009	0.046	31.07	16	0.2	225	14.77	0.03	43	1.317	7.4	0.03	638	0.21	0.04	5.2	0.02	2.835	0.036	0.4	0.037	65.34
Std. Deviation	0.004	0.21	0.198	0.08	0.035	0.003	0.08	52.3	0.027	0.158	0.007	0.045	35.21	3	0	44.3	2.44	0.024	6	0.379	0.8	0.05	98	0.15	0.08	1.1	0.02	0.238	0.011	0	0.019	23.22
Minimum Value	0.003	0.1	0.005	0.05	0.02	0.002	0.05	474.8	0.028	0.332	0.005	0.02	0.36	14	0.2	170.1	10.82	0.002	35	0.839	0.6	0.01	568	0.03	<0.05	4.2	0.01	2.633	0.02	0.4	0.003	25.75
Maximum Value	0.02	0.6	0.4	0.2	0.13	0.01	0.2	571.9	0.089	0.076	0.02	0.121	68.3	20	0.2	280	17.1	0.057	48	1.643	17	0.1	762	0.4	0.4	6.2	0.06	3.16	0.044	0.4	0.06	94
Num. Values	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	

FARO SURFACE WATER QUALITY LISTING FOR 2000

STATION: R1, Rose Creek upstream of Pumphouse Pond

Date	AG-T	AL-T	AS-T	B-T	BA-T	BE-T	BI-T	CA-T	CD-T	CO-T	CR-T	CU-T	FE-T	K-T	LI-T	MG-T	MN-T	MO-T	NA-T	NH-T	P-T	PB-T	S-T	SH-T	SE-T	SI-T	SN-T	SR-T	TH-T	TL-T	V-T	ZN-T
1/8/00	<0.001	0.041	<0.01	0.01	0.02	0.0002	<0.001	18.7	<0.001	<0.002	<0.002	0.009	0.974	0.43	3.619	0.0103	0.006	0.006	1.34	0.004	0.4	0.003	2.23	<0.01	<0.01	4.2	<0.004	0.0413	0.04	0.0723	0.0214	
5/9/00	<0.001	0.041	<0.01	0.028	0.0448	0.0002	<0.001	17.932	<0.001	<0.002	<0.002	0.0156	0.379	0.61	3.67	0.0112	0.0013	0.0013	2.19	0.0099	<0.2	<0.001	3.08	<0.01	<0.01	6.037	<0.004	0.0489	0.0353	<0.0002	0.0376	

JAN 2000 - DEC 2000

Mean	0.0001	0.041	0.001	0.019	0.0312	0.0002	0.001	18.316	0.0001	0.0006	0.0002	0.0123	0.076	0.22	3.443	0.0137	0.0037	0.0037	1.87	0.0025	0.3	0.003	2.66	0.001	0.001	0.001	5.143	0.0004	0.0477	0.0363	0.0295
Std. Deviation	0.0001	0.038	0.001	0.016	0.028	0.0001	0.001	17.932	0.0001	0.0002	0.0002	0.009	0.379	0.43	3.619	0.0103	0.006	0.006	1.34	0.0099	0.2	0.003	2.23	0.001	0.001	0.001	4.2	0.0004	0.0477	0.0363	0.0295
Minimum Value	0.0001	0.041	0.001	0.01	0.02	0.0002	0.001	17.932	0.0001	0.0002	0.0002	0.009	0.379	0.43	3.619	0.0103	0.006	0.006	1.34	0.0099	0.2	0.003	2.23	0.001	0.001	0.001	4.2	0.0004	0.0477	0.0363	0.0295
Maximum Value	0.0001	0.041	0.001	0.028	0.0448	0.0002	0.001	18.7	0.0001	0.0011	0.0002	0.0156	0.074	0.61	3.67	0.0112	0.0013	0.0013	1.19	0.0099	0.4	0.003	2.08	0.001	0.001	0.001	6.037	0.0004	0.0489	0.0353	0.0376
Num. Values	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

JAN 2000 - DEC 2000

Mean	0.0001	0.031	0.001	0.015	0.0455	0.0001	0.001	17.41	0.0001	0.0002	0.0002	0.0038	0.039	0.18	3.274	0.0101	0.001	0.001	1.856	0.0096	0.2	0.001	2.481	0.001	0.001	0.001	4.774	0.0004	0.0738	0.065	0.0601	0.0224
Std. Deviation	0.0001	0.026	0.001	0.002	0.0249	0.0001	0.001	0.29	0.0001	0.0002	0.0002	0.0015	0.034	0.016	0.251	0.0013	0.0013	0.0013	0.023	0.0066	0	0	0.763	0	0	0	1.01	0.0002	0.0162	0.0156	0.0079	
Minimum Value	0.0001	0.027	0.001	0.01	0.042	0.0001	0.001	17.2	0.0001	0.0002	0.0002	0.001	0.026	0.007	0.251	0.0002	0.0001	0.0001	0.023	0.0066	0	0.001	1.54	0.001	0.001	0.001	4.06	0.0004	0.0656	0.002	0.0002	0.0168
Maximum Value	0.0001	0.036	0.001	0.016	0.049	0.0002	0.001	17.61	0.0001	0.0002	0.0002	0.0075	0.061	0.63	3.902	0.011	0.0019	0.0019	1.872	0.001	0.2	0.001	3.022	0.001	0.001	0.001	5.489	0.0004	0.08	0.068	0.018	0.028
Num. Values	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	

JAN 2000 - DEC 2000

Mean	0.0001	0.033	0.001	0.016	0.0444	0.0001	0.001	32.118	0.0001	0.0015	0.0002	0.0106	0.326	1.18	6.779	0.0314	0.0002	0.0002	3.47	0.0023	0.4	0.002	16.72	0.001	0.001	0.001	4.591	0.0004	0.1272	0.0645	0.0296
Std. Deviation	0.0001	0.024	0.001	0.006	0.023	0.0001	0.001	12.577	0.0001	0.0002	0.0002	0.009	0.326	0.46	5.175	0.025	0.001	0.001	2.23	0.002	0.3	0.001	7.25	0.001	0.001	0.001	3.023	0.0004	0.037	0.0062	0.003
Minimum Value	0.0001	0.024	0.001	0.01	0.042	0.0001	0.001	32.118	0.0001	0.0002	0.0002	0.009	0.326	0.46	5.175	0.025	0.001	0.001	2.23	0.002	0.3	0.001	7.25	0.001	0.001	0.001	3.023	0.0004	0.037	0.0062	0.003
Maximum Value	0.0001	0.033	0.001	0.016	0.0444	0.0002	0.001	41.5	0.0001	0.0002	0.0002	0.0152	0.392	1.49	8.383	0.0425	0.0004	0.0004	4.4	0.0041	0.7	0.003	26.18	0.001	0.001	0.001	5.223	0.0004	0.1447	0.0229	0.009
Num. Values	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

JAN 2000 - DEC 2000

Mean	0.0001	0.033	0.001	0.016	0.0444	0.0001	0.001	32.118	0.0001	0.0015	0.0002	0.0106	0.326	1.18	6.779	0.0314	0.0002	0.0002	3.47	0.0023	0.4	0.002	16.72	0.001	0.001	0.001	4.591	0.0004	0.1272	0.0645	0.0296
Std. Deviation	0.0001	0.024	0.001	0.006	0.023	0.0001	0.001	12.577	0.0001	0.0002	0.0002	0.009	0.326	0.46	5.175	0.025	0.001	0.001	2.23	0.002	0.3	0.001	7.25	0.001	0.001	0.001	3.023	0.0004	0.037	0.0062	0.003
Minimum Value	0.0001	0.024	0.001	0.01	0.042	0.0001	0.001	32.118	0.0001	0.0002	0.0002	0.009	0.326	0.46	5.175	0.025	0.001	0.001	2.23	0.002	0.3	0.001	7.25	0.001	0.001	0.001	3.023	0.0004	0.037	0.0062	0.003
Maximum Value	0.0001	0.033	0.001	0.016	0.0444	0.0002	0.001	41.5	0.0001	0.0002	0.0002	0.0152	0.392	1.49	8.383	0.0425	0.0004	0.0004	4.4	0.0041	0.7	0.003	26.18	0.001	0.001	0.001	5.223	0.0004	0.1447	0.0229	0.009
Num. Values	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

JAN 2000 - DEC 2000

Mean	0.0001	0.033	0.001	0.016	0.0444	0.0001	0.001	32.118	0.0001	0.0015	0.0002	0.0106	0.326	1.18	6.779	0.0314	0.0002	0.0002	3.47	0.0023	0.4	0.002	16.72	0.001	0.001	0.001	4.591	0.0004	0.1272	0.0645	0.0296
Std. Deviation	0.0001	0.024	0.001	0.006	0.023	0.0001	0.001	12.577	0.0001	0.0002	0.0002	0.009	0.326	0.46	5.175	0.025	0.001	0.001	2.23	0.002	0.3	0.001	7.25	0.001	0.001	0.001	3.023	0.0004	0.037	0.0062	0.003
Minimum Value	0.0001	0.024	0.001	0.01	0.042	0.0001	0.001	32.118	0.0001	0.0002	0.0002	0.009	0.326	0.46	5.175	0.025	0.001	0.001	2.23	0.002	0.3	0.001	7.25	0.001	0.001	0.001	3.023	0.0004	0.037	0.0062	0.003
Maximum Value	0.0001	0.033	0.001	0.016	0.0444	0.0002	0.001	41.5	0.0001	0.0002	0.0002	0.0152	0.392	1.49	8.383	0.0425	0.0004	0.0004	4.4	0.0041	0.7	0.003	26.18	0.001	0.001	0.001	5.223	0.0004	0.1447	0.0229	0.009
Num. Values	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

JAN 2000 - DEC 2000

Mean	0.0001	0.033	0.001	0.016	0.0444	0.0001	0.001	32.118	0.0001	0.0015	0.0002	0.0106	0.326	1.18	6.779	0.0314	0.0002	0.0002	3.47	0.0023	0.4	0.002	16.72	0.001	0.001	0.001	4.591	0.0004	0.1272	0.0645	0.0296
Std. Deviation	0.0001	0.024	0.001	0.006	0.023	0.0001	0.001	12.577	0.0001	0.0002	0.0002	0.009	0.326	0.46	5.175	0.025	0.001	0.001	2.23	0.002	0.3	0.001	7.25	0.001	0.001	0.001	3.023	0.0004	0.037	0.0062	0.003
Minimum Value	0.0001	0.024	0.001	0.01	0.042	0.0001	0.001	32.118	0.0001	0.0002	0.0002	0.009	0.326	0.46	5.175	0.025	0.001	0.001	2.23	0.002	0.3	0.001	7.25	0.001	0.001	0.001	3.023	0.0004	0.037	0.0062	0.003
Maximum Value	0.0001	0.033	0.001	0.016	0.0444	0.0002	0.001	41.5	0.0001	0.0002	0.0002	0.0152	0.392	1.49	8.383	0.0425	0.0004	0.0004	4.4	0.0041	0.7	0.003	26.18	0.001	0.001	0.001	5.223	0.0004	0.1447	0.0229	0.009
Num. Values	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

JAN 2000 - DEC 2000

Mean	0.0001	0.033	0.001	0.016	0.0444	0.0001	0.001	32.118	0.0001	0.0015	0.0002	0.0106	0.326	1.18	6.779	0.0314	0.0002	0.0002	3.47	0.0023	0.4	0.002	16.72	0.001	0.001	0.001	4.591	0.0004	0.1272	0.0645	0.0296
Std. Deviation	0.0001	0.024	0.001	0.006	0.023	0.0001	0.001	12.577	0.0001	0.0002	0.0002	0.009	0.326	0.46	5.175	0.025	0.001	0.001	2.23	0.002	0.3	0.001	7.25	0.001	0.001	0.001	3.023	0.0004	0.037	0.0062	0.003
Minimum Value	0.0001	0.024	0.001	0.01	0.042	0.0001	0.001	32.118	0.0001	0.0002	0.0002	0.009	0.326	0.46	5.175	0.025	0.001	0.001	2.23	0.002	0.3	0.001	7.25	0.001	0.001	0.001	3.023	0.0004	0.037	0.0062	0.003
Maximum Value	0.0001	0.033	0.001	0.016	0.0444	0.0002	0.001	41.5	0.0001	0.0002	0.0002	0.0152	0.392	1.49	8.383	0.0425	0.0004	0.0004	4.4	0.0041	0.7	0.003	26.18	0.001	0.001	0.001	5.223	0.0004	0.1447	0.0229	0.009
Num. Values	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

JAN 2000 - DEC 2000

EARO SURFACE WATER QUALITY LISTING FOR 2000

STATION: R1, Bear Creek between N14 and R4

Date	AG-T	AL-T	AS-T	B-T	BA-T	BE-T	BI-T	CA-T	CD-T	CO-T	CR-T	CU-T	FE-T	K-T	LI-T	MG-T	MN-T	MO-T	NA-T	NH-T	P-T	PB-T	S-T	SD-T	SE-T	SH-T	SS-T	SR-T	TH-T	TL-T	V-T	ZN-T
1/8/00	<0.001	0.063	<0.01	<0.02	0.039	0.0002	<0.01	38.5	<0.001	0.0003	<0.0002	0.0003	0.169	1.39	7.733	0.4123	0.0773	2.58	<0.001	0.0002	0.7	<0.01	23.99	<0.01	<0.01	3.83	<0.0004	0.1063	0.0126	0.0034	0.0388	
6/9/00	<0.001	0.069	<0.01	0.039	0.05	0.0002	<0.01	23.092	<0.001	0.0003	<0.0002	0.0003	0.169	0.9	4.994	0.4123	0.0773	2.58	<0.001	0.0002	<0.0002	<0.001	6.77	<0.01	<0.01	5.782	<0.0004	0.1063	0.0126	<0.0002	0.0388	
JAN 2000 - DEC 2000																																
Mean	0.0001	0.067	0.001	0.031	0.034	0.0003	0.001	30.796	0.001	0.002	0.0002	0.0011	0.2	1.14	6.303	0.2456	0.0033	3.29	0.0026	0.4	0.001	13.38	0.001	0.001	4.866	0.0004	0.1236	0.0153	0.0028	0.0303		
Std. Deviation	0.0001	0.04	0.001	0.01	0.023	0.0001	0.001	18.995	0.001	0.002	0.0002	0.0002	0.0002	0.13	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	
Minimum Value	0.0001	0.063	0.001	0.039	0.05	0.0002	0.001	23.092	0.001	0.0003	0.0002	0.0003	0.169	0.9	4.994	0.4123	0.0773	2.58	0.0002	0.0002	0.0002	0.001	6.77	0.001	0.001	3.83	0.0004	0.1063	0.0126	0.0002	0.0388	
Maximum Value	0.0001	0.069	0.001	0.039	0.05	0.0003	0.001	38.5	0.001	0.0036	0.0002	0.0003	0.232	1.39	7.733	0.4123	0.0773	2.58	0.0003	0.0003	0.0003	0.001	23.99	0.001	0.001	5.782	0.0004	0.141	0.018	0.0034	0.0388	
Num. Values	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	
JAN 2000 - DEC 2000																																
Mean	0.0001	0.033	0.001	0.014	0.0166	0.0003	0.001	32.15	0.0001	0.0003	0.0002	0.0021	0.055	1.129	6.737	0.2429	0.0021	3.544	0.0002	0.7	0.001	14.641	0.001	0.001	4.502	0.0004	0.1321	0.0034	0.0006	0.02		
Std. Deviation	0.0001	0.0255	0.0005	0.005	0.0004	0.0001	0.001	12.81	0.0001	0.0001	0.0002	0.0009	0.023	0.44	2.396	0.236	0.0028	1.72	0	0.0002	0.7	0	11.235	0	0.006	0	0.034	0.0003	0.0002	0.0199	0.0006	
Minimum Value	0.0001	0.016	0.001	0.011	0.016	0.0002	0.001	23.69	0.0001	0.0001	0.0002	0.0001	0.038	0.818	5.043	0.0701	0.0001	2.327	0.0002	0.2	0.001	4.001	0.001	0.001	4.01	0.0004	0.099	0.0037	0.0002	0.0006	0.0002	
Maximum Value	0.0001	0.051	0.001	0.018	0.022	0.0003	0.001	41.2	0.0001	0.0003	0.0002	0.0042	0.071	1.44	8.431	0.4088	0.0041	4.76	0.0002	1.2	0.001	22.65	0.001	0.001	4.994	0.0004	0.1471	0.017	0.007	0.0002	0.0002	
Num. Values	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	
Date	1/8/00	6/9/00																														
Date	1/8/00	6/9/00																														

STATION: R4, Bear Creek upstream of Ansel Creek

Date	JAN 2000 - DEC 2000																															
	AG-T	AL-T	AS-T	B-T	BA-T	BE-T	BI-T	CA-T	CD-T	CO-T	CR-T	CU-T	FE-T	K-T	LI-T	MG-T	MN-T	MO-T	NA-T	NH-T	P-T	PB-T	S-T	SD-T	SE-T	SH-T	SS-T	SR-T	TH-T	TL-T	V-T	ZN-T
1/8/00	<0.001	0.083	<0.01	0.036	0.0598	0.0003	<0.01	39.1	<0.001	<0.0002	<0.0002	0.0003	0.169	1.38	7.989	0.2632	0.0034	4.04	0.0093	0.2	0.003	22.06	<0.01	<0.01	4.32	<0.0004	0.1498	0.012	0.0014	0.0288		
6/9/00	<0.001	0.083	0.001	0.036	0.0598	0.0003	0.001	39.1	0.0001	0.0002	0.0002	0.0003	0.169	1.38	7.989	0.2632	0.0034	4.04	0.0093	0.2	0.003	22.06	0.001	0.001	4.32	0.0004	0.1498	0.012	0.0014	0.0288		
JAN 2000 - DEC 2000																																
Mean	0.0001	0.083	0.001	0.036	0.0598	0.0003	0.001	39.1	0.0001	0.0002	0.0002	0.0003	0.169	1.38	7.989	0.2632	0.0034	4.04	0.0093	0.2	0.003	22.06	0.001	0.001	4.32	0.0004	0.1498	0.012	0.0014	0.0288		
Std. Deviation	0.0001	0.083	0.001	0.036	0.0598	0.0003	0.001	39.1	0.0001	0.0002	0.0002	0.0003	0.169	1.38	7.989	0.2632	0.0034	4.04	0.0093	0.2	0.003	22.06	0.001	0.001	4.32	0.0004	0.1498	0.012	0.0014	0.0288		
Minimum Value	0.0001	0.083	0.001	0.036	0.0598	0.0003	0.001	39.1	0.0001	0.0002	0.0002	0.0003	0.169	1.38	7.989	0.2632	0.0034	4.04	0.0093	0.2	0.003	22.06	0.001	0.001	4.32	0.0004	0.1498	0.012	0.0014	0.0288		
Maximum Value	0.0001	0.083	0.001	0.036	0.0598	0.0003	0.001	39.1	0.0001	0.0002	0.0002	0.0003	0.169	1.38	7.989	0.2632	0.0034	4.04	0.0093	0.2	0.003	22.06	0.001	0.001	4.32	0.0004	0.1498	0.012	0.0014	0.0288		
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

STATION: R4, Bear Creek upstream of Ansel Creek

Form-NH-01-2000

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Gunter Lee Limited (20/02/27)

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FARO SURFACE WATER QUALITY LISTING FOR 2000

STATION: RM, Anvil Creek downstream of Base Creek

Date	AG-T	AL-T	AS-T	P-T	BA-T	BE-T	BI-T	CA-T	CD-T	CO-T	CR-T	CU-T	FE-T	K-T	LI-T	MG-T	MO-T	NA-T	NH-T	P-T	PH-T	S-T	SB-T	SE-T	SH-T	SN-T	SR-T	TL-T	TL-T	V-T	ZN-T
1/8/00	<0.001	0.08	<0.01	0.014	0.031	0.0002	<0.01	32.5	<0.001	<0.002	<0.002	0.0041	0.118	1.05	8.263	0.0359	0.0051	1.66	0.0021	0.4	<0.001	6.46	<0.001	<0.001	<0.001	4.03	<0.004	0.1067	0.0093	0.0013	0.007
6/9/00	<0.001	0.109	<0.01	0.055	0.027	0.0003	<0.01	31.201	<0.001	<0.002	<0.002	0.0139	0.293	1.15	8.425	0.0177	0.0032	2.43	0.0007	<2	<0.001	6.18	<0.001	<0.001	<0.001	5.597	<0.004	0.1073	0.0216	<0.002	0.0202
JAN 2000 - DEC 2000																															
Mean	0.0001	0.094	0.001	0.045	0.0259	0.0003	0.001	31.851	0.0001	0.0007	0.0002	0.009	0.296	1.1	8.314	0.0268	0.0042	2.05	0.0014	0.5	0.001	6.32	0.001	0.001	0.001	4.814	0.0004	0.107	0.0155	0.0007	0.0136
Std. Deviation	0	0.011	0	0.015	0.0139	0.0001	0	0.019	0	0.0007	0	0.0069	0.124	0.07	0.1115	0.0129	0.0013	0.34	0.001	0.4	0	0.2	0	0	0	1.108	0	0.0004	0.0007	0.0008	0.0093
Minimum Value	0.0001	0.001	0.001	0.01	0.0003	0.0003	0.001	31.2	0.001	0.002	0.002	0.0039	0.293	1.15	8.263	0.0177	0.0032	2.43	0.0007	0.4	<0.001	6.18	<0.001	<0.001	<0.001	4.03	<0.004	0.1067	0.0093	0.0013	0.007
Maximum Value	0.0001	0.109	0.001	0.055	0.027	0.0003	0.001	32.5	0.001	0.002	0.002	0.0139	0.293	1.15	8.425	0.0359	0.0051	1.66	0.0021	0.4	<0.001	6.46	<0.001	<0.001	<0.001	5.597	0.0004	0.1073	0.0216	0.0013	0.0202
Num. Values	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

STATION: RM, Anvil Creek upstream of Base Creek

Date	AG-T	AL-T	AS-T	P-T	BA-T	BE-T	BI-T	CA-T	CD-T	CO-T	CR-T	CU-T	FE-T	K-T	LI-T	MG-T	MO-T	NA-T	NH-T	P-T	PH-T	S-T	SB-T	SE-T	SH-T	SN-T	SR-T	TL-T	TL-T	V-T	ZN-T
1/8/00	<0.001	0.081	0.003	0.017	0.064	0.0003	<0.01	32.5	<0.001	<0.002	<0.002	0.0039	0.137	0.88	8.529	0.0127	0.0039	1.42	0.0036	0.6	<0.001	4.76	0.003	<0.001	<0.001	3.73	<0.004	0.0929	0.013	0.0005	0.0015
6/9/00	<0.001	0.148	<0.01	0.048	0.0731	0.0003	<0.01	32.216	<0.001	<0.002	<0.002	0.0167	0.374	1.03	8.592	0.0152	0.0029	2.23	0.0022	<2	<0.001	6.07	<0.001	<0.001	<0.001	5.841	<0.004	0.111	0.0253	<0.002	0.0258
JAN 2000 - DEC 2000																															
Mean	0.0001	0.115	0.002	0.033	0.0696	0.0003	0.001	32.358	0.0001	0.0011	0.0002	0.0113	0.256	0.95	8.716	0.014	0.0034	1.82	0.0024	0.4	0.001	5.42	0.002	0.001	0.001	4.786	0.0004	0.102	0.0207	0.0004	0.0147
Std. Deviation	0	0.047	0.001	0.022	0.0654	0.0003	0	0.201	0	0.0013	0	0.0075	0.184	0.11	0.254	0.0018	0.0007	0.37	0.0003	0.3	0	0.93	0.001	0	0	1.493	0	0.0128	0.0108	0.0002	0.0158
Minimum Value	0.0001	0.001	0.001	0.01	0.0003	0.0003	0.001	31.6	0.001	0.002	0.002	0.0039	0.137	0.88	8.529	0.0127	0.0039	1.42	0.0036	0.6	<0.001	4.76	0.003	<0.001	<0.001	3.73	<0.004	0.0929	0.013	0.0005	0.0015
Maximum Value	0.0001	0.148	0.003	0.048	0.0731	0.0003	0.001	32.5	0.001	0.002	0.002	0.0167	0.374	1.03	8.592	0.0152	0.0029	2.23	0.0022	<2	<0.001	6.07	<0.001	<0.001	<0.001	5.841	<0.004	0.111	0.0253	<0.002	0.0258
Num. Values	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

Date	AG-D	AL-D	AS-D	P-D	BA-D	BE-D	BI-D	CA-D	CD-D	CO-D	CR-D	CU-D	FE-D	K-D	LI-D	MG-D	MO-D	NA-D	NH-D	P-D	PH-D	S-D	SB-D	SE-D	SH-D	SN-D	SR-D	TL-D	TL-D	V-D	ZN-D
1/8/00	<0.001	0.027	<0.01	<0.02	0.084	0.0002	<0.01	30.7	<0.001	<0.002	<0.002	0.0038	0.647	0.77	8.275	0.0061	0.0023	1.73	0.0007	0.8	<0.001	4.33	<0.001	<0.001	<0.001	3.9	<0.004	0.0966	0.0014	0.0003	0.0013
6/9/00	<0.001	0.038	<0.01	0.029	0.065	0.0003	<0.01	30.54	<0.001	<0.002	<0.002	<0.001	0.643	0.9	8.51	0.008	0.0024	2.105	<0.007	<2	<0.001	5.955	<0.001	<0.001	<0.001	4.109	<0.004	0.096	0.007	<0.002	<0.002
JAN 2000 - DEC 2000																															
Mean	0.0001	0.032	0.001	0.015	0.0714	0.0003	0.001	30.62	0.0001	0.0002	0.0002	0.003	0.645	0.833	8.292	0.0071	0.0034	1.818	0.0004	0.8	0.001	5.142	0.001	0.001	0.001	4.095	0.0004	0.0963	0.0012	0.0003	0.0068
Std. Deviation	0	0.006	0	0.019	0.0114	0.0001	0	0.11	0	0.0002	0	0.0026	0.003	0.092	0.166	0.0013	0.0013	0.266	0.0004	0.4	0	1.149	0	0	0	0.148	0	0.0004	0.0004	0.0002	0.0068
Minimum Value	0.0001	0.001	0.001	0.002	0.0003	0.0002	0.001	30.34	0.0001	0.0002	0.0002	0.0001	0.643	0.77	8.275	0.0061	0.0024	1.73	0.0002	0.8	0.001	4.33	0.001	0.001	0.001	3.9	0.0004	0.096	0.0014	0.0002	0.0068
Maximum Value	0.0001	0.038	0.001	0.029	0.084	0.0003	0.001	30.7	0.0001	0.0002	0.0002	0.0038	0.647	0.9	8.51	0.008	0.0023	2.105	0.0007	0.8	0.001	5.955	0.001	0.001	0.001	4.109	0.0004	0.0966	0.007	0.0003	0.0013
Num. Values	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

FARO SURFACE WATER QUALITY LISTING FOR 2000

STATION: RT, N Fork of Rose Creek above Faro CL Diversification

Date	AG-T	AL-T	AS-T	B-T	BA-T	BE-T	BI-T	CA-T	CD-T	CO-T	CR-T	CU-T	FE-T	K-T	LI-T	MG-T	MR-T	MO-T	NA-T	NI-T	P-T	PD-T	S-T	SB-T	SE-T	SH-T	SN-T	SR-T	TI-T	TL-T	V-T	ZN-T
2603000	<0.001	0.06	<0.05	0.06	0.199	<0.01	<0.05	40.6	<0.01	0.02	<0.03	0.002	0.07	2	8.1	0.21	0.002	8	<0.03	<1	<0.1	4	<0.3	<0.05	4.9	<0.1	0.205	<0.05	<0.05	<0.05	0.02	
316200	<0.001	0.18	<0.05	<0.05	0.106	<0.01	<0.05	11	<0.01	<0.002	<0.002	0.033	0.43	2	3.119	0.0129	0.0029	0.0015	1.47	<0.03	<1	<0.1	1.72	<0.01	<0.01	3.7	<0.004	0.034	0.061	0.048	0.02	
118200	<0.001	0.07	<0.01	<0.02	0.0311	0.0001	<0.01	16.3	<0.001	<0.002	<0.002	0.033	0.136	0.36	3.979	0.0164	0.0015	0.0015	2.24	0.0032	<2	<0.01	2.25	<0.03	<0.05	6.629	0.004	0.035	0.018	0.0092	0.0169	
69000	<0.001	0.04	<0.01	<0.03	0.0365	0.0002	<0.01	19.716	<0.001	<0.005	<0.005	0.069	0.09	<1	4	0.02	<0.02	<0.02	3	<0.03	<2	<0.1	<0.3	<0.05	<0.05	4	<0.1	0.03	<0.05	<0.05	0.03	
129000	<0.03	0.09	<0.05	<0.05	0.133	<0.01	<0.05	23	<0.01	<0.005	<0.005	0.069	0.09	<1	4	0.02	<0.02	<0.02	3	<0.03	<2	<0.1	<0.3	<0.05	<0.05	4	<0.1	0.03	<0.05	<0.05	0.03	
JAN 2000 - DEC 2000																																
Mean	0.0018	0.048	0.003	0.039	0.1091	0.0007	0.01	22.163	0.0006	0.0065	0.0047	0.0035	0.285	1.21	4.24	0.0559	0.0021	0.0021	3.14	0.0037	1.5	0.006	2.66	0.018	0.003	4.414	0.0023	0.0013	0.0124	0.013	0.0232	
Std. Deviation	0.0016	0.044	0.002	0.023	0.0608	0.0005	0.007	11.217	0.0005	0.0055	0.0052	0.0043	0.315	0.73	2.308	0.0362	0.0015	0.0015	2.82	0.0021	1.5	0.005	1.19	0.016	0.002	1.465	0.0023	0.0078	0.0233	0.0157	0.039	
Minimum Value	0.0003	0.04	0.001	0.002	0.0311	0.0001	0.001	11	0.0001	0.002	0.0002	0.002	0.07	0.36	8.1	0.0129	0.0015	0.0015	1	0.0002	0.2	0.001	1.72	0.001	0.001	0.003	0.004	0.03	0.001	0.048	0.03	
Maximum Value	0.003	0.18	0.005	0.06	0.199	0.001	0.05	40.6	0.001	0.02	<0.03	0.012	0.43	2	3.119	0.0164	0.0015	0.0015	2.24	0.0032	<2	<0.01	2.25	<0.03	<0.05	6.629	0.004	0.035	0.018	0.0092	0.0169	
Num. Values	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	

Date	AG-ID	AL-ID	AS-ID	B-ID	BA-ID	BE-ID	BI-ID	CA-ID	CD-ID	CO-ID	CR-ID	CU-ID	FE-ID	K-ID	LI-ID	MG-ID	MR-ID	MO-ID	NA-ID	NI-ID	P-ID	PD-ID	S-ID	SB-ID	SE-ID	SH-ID	SN-ID	SR-ID	TI-ID	TL-ID	V-ID	ZN-ID
2603000	<0.001	<0.05	<0.05	<0.05	0.156	<0.01	<0.05	40.4	<0.01	<0.05	<0.05	<0.02	<0.1	2	8.2	<0.1	<0.02	4	<0.03	<1	<0.1	4	<0.3	<0.05	5.8	<0.1	0.207	<0.05	<0.05	<0.05	<0.1	
316200	<0.003	<0.25	<0.05	<0.05	<0.05	<0.01	<0.05	18	<0.03	<0.05	<0.03	0.002	0.08	1	1.8	0.03	<0.02	1	<0.05	<0.1	<0.1	1	<0.3	<0.05	2.3	<0.1	0.045	<0.05	<0.05	<0.05	<0.1	
118200	<0.001	0.029	<0.01	<0.01	0.0795	<0.001	<0.01	16.8	<0.001	<0.002	<0.002	0.003	0.065	0.45	3.237	0.0038	0.0028	1.66	<0.002	0.3	<0.01	1.44	<0.001	<0.01	4.05	<0.004	0.0743	0.0006	0.002	0.006	0.006	
69000	<0.001	0.015	<0.01	0.011	0.011	0.0002	<0.01	18.48	<0.001	<0.002	<0.002	0.003	0.059	0.72	3.616	0.009	<0.001	1.859	<0.002	<2	<0.01	2.202	<0.01	<0.01	5.75	<0.004	0.078	0.008	<0.002	0.002	0.003	
129000	<0.001	<0.35	<0.05	<0.05	0.61	<0.01	<0.05	16.2	<0.01	<0.05	<0.05	0.004	<1	<1	<1	<1	<0.02	3	<0.03	<7	<0.01	7	<0.3	<0.05	<0.05	<0.05	<0.03	<0.05	<0.02	0.04		
JAN 2000 - DEC 2000																																
Mean	0.0018	0.039	0.003	0.033	0.0603	0.0007	0.03	20.38	0.0006	0.0031	0.0031	0.0027	0.045	1.904	3.399	0.013	0.0018	2.04	0.0036	1.9	0.006	3.128	0.018	0.003	4.385	0.0062	0.0035	0.0047	0.0064	0.0138		
Std. Deviation	0.0016	0.016	0.002	0.024	0.0622	0.0005	0.027	11.65	0.0005	0.0026	0.0026	0.0033	0.069	0.609	3.025	0.0097	0.001	0.1191	0.0021	2.9	0.005	2.449	0.016	0.002	1.498	0.0023	0.0053	0.0026	0.0079	0.0149		
Minimum Value	0.0001	0.015	0.001	0.002	0.002	0.0001	0.001	10	0.0001	0.0002	0.0002	0.002	0.01	0.45	0.003	0.00948	0.0001	1	0.0002	0.1	0.0002	0.001	0.001	0.001	0.23	0.0004	0.003	0.0006	0.0002	0.001		
Maximum Value	0.003	0.05	0.005	0.05	0.156	0.001	0.05	40.4	0.001	0.005	0.005	0.0034	0.08	2	8.2	0.03	0.003	4	0.005	7	0.01	7	0.03	0.003	5.8	0.01	0.027	0.008	0.002	0.04		
Num. Values	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	

STATION: RM, N Fork of Rose Creek 900 m below Faro CL Div:

Date	AG-T	AL-T	AS-T	B-T	BA-T	BE-T	BI-T	CA-T	CD-T	CO-T	CR-T	CU-T	FE-T	K-T	LI-T	MG-T	MR-T	MO-T	NA-T	NI-T	P-T	PD-T	S-T	SB-T	SE-T	SH-T	SN-T	SR-T	TI-T	TL-T	V-T	ZN-T
2603000	<0.03	0.41	<0.05	<0.05	0.07	0.18	<0.01	<0.05	<0.01	0.015	<0.05	0.003	0.08	4	8.3	0.06	<0.02	<0.02	7	<0.03	<1	0.01	4	<0.3	<0.05	5.2	<0.1	0.21	<0.05	<0.05	<0.05	0.01
406000	<0.03	0.14	<0.05	<0.05	<0.05	0.133	<0.01	<0.05	<0.01	<0.005	<0.005	0.025	0.1	<1	1.7	0.02	<0.01	<0.02	3	0.012	<1	<0.1	<0.3	<0.05	<0.05	4.6	<0.1	0.036	<0.05	<0.05	<0.05	0.06
JAN 2000 - DEC 2000																																
Mean	0.003	0.3	0.005	0.05	0.138	0.001	0.05	24	0.001	0.008	0.013	0.01	0.3	2	4.5	0.03	0.002	0.002	4	0.009	1	0.01	4	0.03	0.003	4.3	0.01	0.102	0.019	0.008	0.03	
Std. Deviation	0	0.14	0	0	0.039	0	0	16.4	0	0.006	0.013	0.013	0.37	2	3.4	0.01	0	0	3	0.004	0	0	0	0	0	1.1	0	0.003	0.025	0.003	0.03	
Minimum Value	0.003	0.14	0.005	0.03	0.102	0.001	0.05	9.1	0.001	0.005	0.005	0.002	0.08	1	1.7	0.01	0.002	0.002	1	0.005	1	0.01	4	0.03	0.003	2.1	0.01	0.006	0.003	0.003	0.03	
Maximum Value	0.003	0.41	0.005	0.07	0.18	0.001	0.05	41.5	0.001	0.015	0.05	0.025	0.35	4	8.3	0.06	0.02	0.02	7	0.012	1	0.01	4	0.03	0.003	5.2	0.01	0.21	0.04	0.015	0.06	
Num. Values	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
JAN 2000 - DEC 2000																																
Mean	0.003	0.14	0.005	0.05	0.063	0.001	0.05	20.8	0.001	0.003	0.005	0.002	0.04	1	4.3	0.06	0.002	0.002	3	0.005	3	0.01	2	0.03	0.003	4	0.01	0.092	0.005	0.005	0.03	
Std. Deviation	0	0.16	0	0	0.074	0	0	14.8	0	0	0	0	0.05	1	3.4	0.07	0	0	3	0.001	2	0	1	0	0	1.7	0	0.103	0	0	0.03	0
Minimum Value	0.003	0.03	0.005	0.03	0.005	0.001	0.05	7.9	0.001	0.003	0.003	0.002	0.01	1	1.4	0.01	0.002	0.002	1	0.005	1	0.01	1	0.03	0.003	2.4	0.01	0.013	0.003	0.003	0.01	
Maximum Value	0.003	0.32	0.005	0.06	0.171	0.001	0.05	37	0.001	0.005	0.005	0.002	0.1	2	8	0.14	0.002	0.002	6	0.006	5	0.01	3	0.03	0.003	5.8	0.01	0.208	0.005	0.005	0.06	
Num. Values	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	

Date	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	K-D	LI-D	MG-D	MR-D	MO-D	NA-D	NI-D	P-D	PD-D	S-D	SB-D	SE-D	SH-D	SN-D	SR-D	TI-D	TL-D	V-D	ZN-D
2603000	<0.03	0.32	<0.05	<0.05	0.171	<0.01	<0.05	37	<0.01	<0.005	<0.005	<0.02	<0.1	2	8	<0.1	<0.02	<0.02	6	<0.05	<1	<0.1	3	<0.3	<0.05	5.4	<0.1	0.208	<0.05	<0.05	<0.05	
316200	<0.03	0.14	<0.05	<0.05	0.133	<0.01	<0.05	21.4	<0.01	<0.005	<0.005	0.025	0.1	<1	1.3	0.06	<0.02	<0.02	3	0.006	5	<0.1	<0.3	<0.05	<0.05	4.6	<0.1	0.036	<0.05	<0.05	<0.05	
129000	<0.03	0.14	<0.05	<0.05	0.133	<0.01	<0.05	21.4	<0.01	<0.005	<0.005	0.025	0.1	<1	1.3	0.06	<0.02	<0.02	3	0.006	5	<0.1	<0.3	<0.05	<0.05	4.6	<0.1	0.036	<0.05	<0.05	<0.05	
JAN 2000 - DEC 2000																																
Mean	0.003	0.14	0.005	0.06	0.138	0.001	0.05	20.8	0.001	0.005	0.005	0.002	0.04	1	4.3	0.06	0.002	0.002	3	0.003	3	0.01	2	0.03	0.003	4	0.01	0.092	0.005	0.005	0.03	
Std. Deviation	0	0.14	0	0	0.039	0	0	16.4	0	0.005	0.013	0.013	0.37	2	3.4	0.01	0	0	3	0.004	0	0	0	0	0	1.1	0	0.003	0.025	0.003	0.03	
Minimum Value	0.003	0.14	0.005	0.03	0.102	0.001	0.05	11	0.001	0.005	0.005	0.002	0.08	1	1.7	0.01	0.002	0.002	1	0.005	1	0.01	4	0.03	0.003	2.1	0.01	0.006	0.003	0.003	0.03	
Maximum Value	0.03	0.41	0.05	0.07	0.18	0.001	0.05	41.5	0.001	0.015	0.05	0.08	0.35	4	8.3	0.06	0.02	0.02	7	0.012	1	0.01	4	0.03	0.003	5.2	0.01	0.21	0.04	0.015	0.06	
Num. Values	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	

FARO SURFACE WATER QUALITY LISTING FOR 2000

STATION: R0, N Fork of Bear Creek adjacent BH1 and BH2

Date	AG-T mg/L	AL-T mg/L	AS-T mg/L	B-T mg/L	BA-T mg/L	BE-T mg/L	BH-T mg/L	CA-T mg/L	CD-T mg/L	CO-T mg/L	CR-T mg/L	CU-T mg/L	FE-T mg/L	K-T mg/L	LI-T mg/L	MG-T mg/L	MR-T mg/L	MO-T mg/L	NA-T mg/L	NI-T mg/L	P-T mg/L	PB-T mg/L	S-T mg/L	SB-T mg/L	SE-T mg/L	SH-T mg/L	SN-T mg/L	SR-T mg/L	TH-T mg/L	TL-T mg/L	V-T mg/L	ZN-T mg/L
4/6/2000	<0.03	0.36	<0.03	<0.03	0.093	<0.01	<0.03	8.9	<0.01	<0.03	0.061	<0.02	0.7	3	<0.1	1.7	0.03	<0.02	1	0.007	<0.1	<0.1	<0.1	<0.1	<0.1	<0.03	3	<0.1	0.056	0.042	0.012	<0.1
12/9/2000	<0.03	0.16	<0.03	<0.03	0.124	<0.01	<0.03	22.9	<0.01	<0.03	<0.03	0.01	0.12	<0.1	3.9	0.02	0.02	<0.02	3	0.007	4	<0.1	<0.1	<0.1	<0.1	<0.03	4.4	<0.1	0.058	<0.03	<0.03	0.06
JAN 2000 - DEC 2000																																
Mean	0.00	0.26	0.005	0.03	0.109	0.001	0.03	15.9	0.001	0.005	0.033	0.066	0.41	2	2.8	0.02	0.02	0.002	2	0.007	2	0.01	0.03	0.03	0.03	0.005	1.7	0.01	0.037	0.023	0.008	0.03
Std. Deviation	0	0.14	0	0	0.021	0	0	9.9	0	0	0.04	0.065	0.41	1	1.6	0.01	0.01	0.003	1	0	2	0	0	0	0	0	0	0	0.001	0.025	0.003	0.04
Minimum Value	0.003	0.03	0.003	0.03	0.021	0.001	0.03	0.03	0.001	0.003	0.03	0.01	0.07	1	0.03	0.01	0.01	0.003	0	0.007	0	0	0	0	0	0	0	0	0.001	0.003	0.003	0.04
Maximum Value	0.003	0.36	0.005	0.03	0.124	0.001	0.03	22.9	0.001	0.005	0.061	0.01	0.7	3	3.9	0.03	0.03	0.002	3	0.007	4	0.01	0.01	0.01	0.01	0.005	4.4	0.01	0.038	0.042	0.012	0.06
Num. Values	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

STATION: RH, North Fork of Bear Creek up of rock drain

Date	AG-T mg/L	AL-T mg/L	AS-T mg/L	B-T mg/L	BA-T mg/L	BE-T mg/L	BH-T mg/L	CA-T mg/L	CD-T mg/L	CO-T mg/L	CR-T mg/L	CU-T mg/L	FE-T mg/L	K-T mg/L	LI-T mg/L	MG-T mg/L	MR-T mg/L	MO-T mg/L	NA-T mg/L	NI-T mg/L	P-T mg/L	PB-T mg/L	S-T mg/L	SB-T mg/L	SE-T mg/L	SH-T mg/L	SN-T mg/L	SR-T mg/L	TH-T mg/L	TL-T mg/L	V-T mg/L	ZN-T mg/L	
25/03/2000	<0.03	0.26	<0.03	<0.08	0.181	<0.01	<0.03	42.3	<0.01	<0.03	<0.03	<0.02	0.06	10	<0.1	8.7	0.03	<0.02	7	<0.05	<0.1	<0.1	5	<0.3	<0.03	3.4	<0.1	0.217	0.028	<0.03	<0.03	<0.03	0.01
31/06/2000	<0.03	0.23	<0.03	<0.08	0.129	<0.01	<0.03	21.7	<0.01	<0.03	<0.03	0.021	0.11	<0.1	<0.1	4.1	0.03	<0.02	3	<0.05	8	<0.1	<0.1	<0.1	<0.03	2.8	<0.1	0.09	0.028	<0.03	<0.03	<0.03	0.01
JAN 2000 - DEC 2000	0.003	0.27	0.005	0.07	0.129	0.001	0.03	21.5	0.001	0.005	0.018	0.008	0.25	4	4.8	0.03	0.03	0.002	4	0.005	3	0.02	5	0.03	0.005	4.5	0.01	0.114	0.013	0.007	0.03		
Mean	0	0.03	0	0.02	0.049	0	0	17.1	0	0	0.023	0.011	0.29	5	3.6	0	0	0	0	0	4	0.01	0	0	0	0	1.5	0	0.089	0.013	0.003	0.03	
Std. Deviation	0.003	0.23	0.003	0.05	0.084	0.001	0.03	8.4	0.001	0.003	0.003	0.002	0.06	1	1.7	0.03	0.03	0.002	1	0.003	1	0.01	5	0.03	0.005	2.8	0.01	0.038	0.005	0.003	0.01		
Minimum Value	0.003	0.23	0.003	0.05	0.084	0.001	0.03	8.4	0.001	0.003	0.003	0.002	0.06	1	1.7	0.03	0.03	0.002	1	0.003	1	0.01	5	0.03	0.005	2.8	0.01	0.038	0.005	0.003	0.01		
Maximum Value	0.003	0.33	0.005	0.08	0.181	0.001	0.03	42.5	0.001	0.005	0.045	0.021	0.09	10	8.7	0.03	0.03	0.002	7	<0.05	8	0.03	0.03	0.03	0.03	0.005	5.4	0.01	0.217	0.028	0.007	0.03	
Num. Values	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
Date	AG-D mg/L	AL-D mg/L	AS-D mg/L	BH-D mg/L	BA-D mg/L	BE-D mg/L	BH-D mg/L	CA-D mg/L	CD-D mg/L	CO-D mg/L	CR-D mg/L	CU-D mg/L	FE-D mg/L	K-D mg/L	LI-D mg/L	MO-D mg/L	MR-D mg/L	MO-D mg/L	NA-D mg/L	NI-D mg/L	P-D mg/L	PB-D mg/L	S-D mg/L	SB-D mg/L	SE-D mg/L	SH-D mg/L	SN-D mg/L	SR-D mg/L	TH-D mg/L	TL-D mg/L	V-D mg/L	ZN-D mg/L	
25/03/2000	<0.03	0.11	<0.03	<0.05	0.191	<0.01	<0.03	42.6	<0.01	<0.03	<0.03	<0.02	<0.1	10	<0.1	9	<0.1	<0.02	9	<0.03	<0.1	<0.1	5	<0.3	<0.05	3.9	<0.1	0.22	<0.03	<0.03	<0.03	<0.03	<0.03
31/06/2000	<0.03	<0.03	<0.03	<0.08	0.191	<0.01	<0.03	7.2	<0.01	<0.03	<0.03	<0.02	0.09	<0.1	<0.1	3.6	0.04	0.02	4	<0.03	1	<0.1	3	<0.3	<0.05	3.6	<0.1	0.02	<0.03	<0.03	<0.03	<0.03	<0.03
JAN 2000 - DEC 2000	0.003	0.07	0.005	0.05	0.074	0.001	0.03	23.3	0.001	0.005	0.005	0.003	0.04	4	4.6	0.02	0.02	0.002	5	0.005	1	0.01	3	0.03	0.005	3.9	0.01	0.09	0.005	0.003	0.03		
Mean	0	0.03	0	0	0.102	0	0	17.9	0	0	0	0.002	0.04	5	4	0.02	0	0	0	0	0	0	2	0	0	0	1.9	0	0.074	0	0.003	0.03	
Std. Deviation	0.003	0.05	0.003	0.05	0.091	0.001	0.03	7.2	0.001	0.003	0.003	0.002	0.05	1	1.3	0.01	0.01	0.002	1	0.003	1	0.01	1	0.03	0.005	2.2	0.01	0.02	0.005	0.003	0.03		
Minimum Value	0.003	0.11	0.003	0.05	0.191	0.001	0.03	42.6	0.001	0.003	0.003	0.002	0.09	10	9	0.04	0.02	0	0.003	<0.03	<0.1	<0.1	3	0.03	0.005	3.9	0.01	0.074	0	0.003	0.03		
Maximum Value	0.003	0.11	0.005	0.08	0.191	0.001	0.03	7.2	0.001	0.005	0.005	0.002	0.09	10	9	0.04	0.02	0	0.003	<0.03	<0.1	<0.1	3	0.03	0.005	2.2	0.01	0.02	0.005	0.003	0.03		
Num. Values	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		

Date	AG-T mg/L	AL-T mg/L	AS-T mg/L	B-T mg/L	BA-T mg/L	BE-T mg/L	BH-T mg/L	CA-T mg/L	CD-T mg/L	CO-T mg/L	CR-T mg/L	CU-T mg/L	FE-T mg/L	K-T mg/L	LI-T mg/L	MG-T mg/L	MR-T mg/L	MO-T mg/L	NA-T mg/L	NI-T mg/L	P-T mg/L	PB-T mg/L	S-T mg/L	SB-T mg/L	SE-T mg/L	SH-T mg/L	SN-T mg/L	SR-T mg/L	TH-T mg/L	TL-T mg/L	V-T mg/L	ZN-T mg/L	
2/6/2000	<0.03	0.11	<0.03	<0.03	0.191	<0.01	<0.03	42.6	<0.01	<0.03	<0.03	<0.02	<0.1	10	<0.1	9	<0.1	<0.02	9	<0.05	<0.1	<0.1	<0.1	<0.1	<0.03	5.9	<0.1	0.22	<0.03	<0.03	<0.03	<0.1	
3/6/2000	<0.03	<0.03	<0.03	<0.03	0.088	<0.01	<0.03	7.2	<0.01	<0.03	<0.03	<0.02	0.09	<0.1	13.3	<0.1	<0.03	<0.02	1	<0.05	1	<0.1	<0.1	<0.1	<0.03	2.2	<0.1	0.055	<0.03	<0.03	<0.03	<0.1	
12/9/2000	<0.03	<0.03	<0.03	<0.03	0.022	<0.01	<0.03	20.2	<0.01	<0.03	<0.03	0.005	<0.1	<0.1	3.6	0.04	0.04	0.002	4	<0.03	1	<0.1	<0.1	<0.1	<0.03	3.6	<0.1	0.02	<0.03	<0.03	0.014	0.08	
JAN 2000 - DEC 2000																																	
Mean	0.003	0.07	0.005	0.03	0.074	0.001	0.03	23.3	0.001	0.005	0.006	0.003	0.04	4	4.6	0.02	0.02	0.002	5	0.005	1	0.01	0.03	0.03	0.03	0.005	3.9	0.01	0.098	0.005	0.008	0.03	
Std. Deviation	0	0.03	0	0.02	0.022	0	0	17.9	0	0	0.003	0.002	0.05	5	4.4	0.01	0.01	0.002	1	0	0	0	0	0	0	0	1.9	0	0.107	0	0.003	0.04	
Minimum Value	0.003	0.03	0.003	0.03	0.061	0.001	0.03	0.03	0.001	0.003	0.003	0.003	0.07	1	1.3	0.03	0.03	0.002	1	0.003	0	0.01	0.01	0.01	0.01	0.003	2.2	0.01	0.038	0.003	0.003	0.04	
Maximum Value	0.003	0.11	0.005	0.03	0.191	0.001	0.03	42.6	0.001	0.003	0.005	0.005	0.09	10	9	0.04	0.04	0.002	9	0.005	1	0.01	0.01	0.01	0.01	0.005	3.9	0.01	0.22	0.005	0.014	0.08	
Num. Values	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	

FARO SURFACE WATER QUALITY LISTING FOR 2000

STATION: FAROGR, Para Cr out of confluence N/Para

Date	AC-T	AL-T	AS-T	B-T	BA-T	BE-T	BI-T	CA-T	CD-T	CO-T	CK-T	CL-T	FE-T	K-T	LI-T	MG-T	NR-T	NO-T	NA-T	NI-T	P-T	PH-T	S-T	SB-T	SE-T	SH-T	SN-T	SR-T	TH-T	TL-T	V-T	Zn-T
3/6/00	<0.03	0.66	<0.05	<0.5	0.033	<0.01	<0.5	3.3	<0.01	<0.05	0.037	<0.02	0.83	2		0.9	0.01	<0.02	<1	0.007	<1	0.03		<0.3	<0.05	3.8	<0.1	0.043	0.038		<0.05	0.08
JAN 2000 - DEC 2000																																
Mean	0.003	0.66	0.005	0.05	0.033	0.001	0.5	3.3	0.001	0.005	0.037	0.002	0.83	2		0.9	0.01	0.002	1	0.007	1	0.03		0.03	0.005	3.8	0.01	0.043	0.038		0.005	0.08
Std. Deviation	0	0	0.003	0.05	0	0	0	3.3	0.001	0.005	0	0	0.83	2		0	0	0.002	0	0	0	0		0	0	3.8	0.01	0.043	0.038		0	0
Minimum Value	0.003	0.66	0.003	0.05	0.033	0.001	0.5	3.3	0.001	0.005	0.037	0.002	0.83	2		0.9	0.01	0.002	1	0.007	1	0.03		0.03	0.005	3.8	0.01	0.043	0.038		0.003	0.08
Maximum Value	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1		1	1	1	1	1	1		1	1
JAN 2000 - DEC 2000																																
Mean	0.003	0.67	0.005	0.05	0.003	0.001	0.5	2	0.001	0.005	0.005	0.002	0.14	1		0.4	0.01	0.002	1	0.005	3	0.01		0.03	0.005	2.9	0.01	0.024	0.005		0.005	0.01
Std. Deviation	0	0	0	0	0	0	0	2	0.001	0.005	0	0	0	1		0.4	0	0.002	0	0.005	3	0		0	0	2.9	0.01	0.024	0.005		0	0
Minimum Value	0.003	0.67	0.003	0.05	0.003	0.001	0.5	2	0.001	0.005	0.005	0.002	0.14	1		0.4	0.01	0.002	1	0.005	3	0.01		0.03	0.005	2.9	0.01	0.024	0.005		0.003	0.01
Maximum Value	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1		1	1	1	1	1	1		1	1
JAN 2000 - DEC 2000																																
Mean	0.003	0.67	0.005	0.05	0.003	0.001	0.5	2	0.001	0.005	0.005	0.002	0.14	1		0.4	0.01	0.002	1	0.005	3	0.01		0.03	0.005	2.9	0.01	0.024	0.005		0.005	0.01
Std. Deviation	0	0	0	0	0	0	0	2	0.001	0.005	0	0	0	1		0.4	0	0.002	0	0.005	3	0		0	0	2.9	0.01	0.024	0.005		0	0
Minimum Value	0.003	0.67	0.003	0.05	0.003	0.001	0.5	2	0.001	0.005	0.005	0.002	0.14	1		0.4	0.01	0.002	1	0.005	3	0.01		0.03	0.005	2.9	0.01	0.024	0.005		0.003	0.01
Maximum Value	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1		1	1	1	1	1	1		1	1

Appendix 2

2000 Ground Water Quality Listing

FARO GROUND WATER QUALITY LISTING FOR 2000

STATION: BH1, W of Zone II, by NFR Cr. (5.18m)

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
26/06/00			3.26		frozen/blocked
22/10/00			5.02		
JAN 2000 - DEC 2000					
Mean			4.14		
Std. Deviation			1.24		
Minimum Value			3.26		
Maximum Value			5.02		
Num. Values			2		

STATION: BH2, W of Zone II, by NFR Cr. (5.55m)

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
4/6/00	5.44	4	4.81	236	
22/10/00	5.88	2.6	4.61	220	
JAN 2000 - DEC 2000					
Mean	5.66	3.3	4.71	228	
Std. Deviation	0.31	1	0.14	11	
Minimum Value	5.44	2.6	4.61	220	
Maximum Value	5.88	4	4.81	236	
Num. Values	2	2	2	2	

STATION: BH4, W of Zone II, by NFR Cr. (3.20m)

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
4/6/00	3.7	2	2.3	187	
22/10/00	4.7	2.3	2.26	422	
JAN 2000 - DEC 2000					
Mean	4.2	2.1	2.28	304	
Std. Deviation	0.71	0.2	0.03	166	
Minimum Value	3.7	2	2.26	187	
Maximum Value	4.7	2.3	2.3	422	
Num. Values	2	2	2	2	

STATION: BH12A, W of Zone II, by NFR Cr. (2.85m)

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
3/6/00			1.92		frozen/wet
26/06/00	6.94	6	2.67	578	
22/10/00	6.76	1.2	2.14	288	
JAN 2000 - DEC 2000					
Mean	6.85	3.6	2.24	433	
Std. Deviation	0.13	3.4	0.39	205	
Minimum Value	6.76	1.2	1.92	288	
Maximum Value	6.94	6	2.67	578	
Num. Values	2	2	3	2	

FARO GROUND WATER QUALITY LISTING FOR 2000

STATION: BH12B, W of Zone II, by NFR Cr. (8.05m)

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
3/6/00			1.46		frozen/wet
26/06/00	6.62	5	1.56	633	
22/10/00	6.81	1.5	1.63	257	
JAN 2000 - DEC 2000					
Mean	6.71	3.2	1.55	445	
Std. Deviation	0.13	2.5	0.09	266	
Minimum Value	6.62	1.5	1.46	257	
Maximum Value	6.81	5	1.63	633	
Num. Values	2	2	3	2	

STATION: BH13A, W of Zone II, by NFR Cr. (3.64m)

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
3/6/00			4.23		frozen/dry
26/06/00			4.24		frozen/blocked
22/10/00			4.15		
JAN 2000 - DEC 2000					
Mean			4.21		
Std. Deviation			0.05		
Minimum Value			4.15		
Maximum Value			4.24		
Num. Values			3		

STATION: BH13B, W of Zone II, by NFR Cr. (4.25m)

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
3/6/00			4.4		frozen/dry
26/06/00			2.68		frozen/blocked
22/10/00	6.68	2	3.44	379	
JAN 2000 - DEC 2000					
Mean	6.68	2	3.51	379	
Std. Deviation	0	0	0.86	0	
Minimum Value	6.68	2	2.68	379	
Maximum Value	6.68	2	4.4	379	
Num. Values	1	1	3	1	

STATION: BH14A, W of Zone II, by NFR Cr. (6.22m)

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
3/6/00			3.98		frozen/wet
26/06/00	7.85	4	3.76	805	
22/10/00	6.9	2.9	3.92	804	
JAN 2000 - DEC 2000					
Mean	7.38	3.5	3.89	804	
Std. Deviation	0.67	0.8	0.11	1	
Minimum Value	6.9	2.9	3.76	804	
Maximum Value	7.85	4	3.98	805	
Num. Values	2	2	3	2	

FARO GROUND WATER QUALITY LISTING FOR 2000

STATION: BIH14B, W of Zone II, by NFR Cr. (10.00m)

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
3/6/00	6.46	3	4.63	958	
22/10/00	6.94	2.6	4.68	872	
JAN 2000 - DEC 2000					
Mean	6.7	2.8	4.65	915	
Std. Deviation	0.34	0.3	0.04	61	
Minimum Value	6.46	2.6	4.63	872	
Maximum Value	6.94	3	4.68	958	
Num. Values	2	2	2	2	

STATION: P96-6, Toe Int Dump above Rock Drain (20.85m)

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
25/07/00	6.15	5.6	11.99	207	
22/10/00	5.97	1.3	12.52	397	
JAN 2000 - DEC 2000					
Mean	6.06	3.4	12.26	302	
Std. Deviation	0.13	3	0.37	134	
Minimum Value	5.97	1.3	11.99	207	
Maximum Value	6.15	5.6	12.52	397	
Num. Values	2	2	2	2	

STATION: P96-7, Toe Main Dump, below Haul Road (9.90m)

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
22/10/00	7.02	1.5	1.98	720	
JAN 2000 - DEC 2000					
Mean	7.02	1.5	1.98	720	
Std. Deviation	0	0	0	0	
Minimum Value	7.02	1.5	1.98	720	
Maximum Value	7.02	1.5	1.98	720	
Num. Values	1	1	1	1	

STATION: P96-8A, Old Faro Cr channel by X23 (4.87m)

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
31/05/00	5.9	2	3.25	1340	
10/10/00	6.07	4.9	2.42	1752	
JAN 2000 - DEC 2000					
Mean	5.99	3.5	2.84	1546	
Std. Deviation	0.12	2.1	0.59	291	
Minimum Value	5.9	2	2.42	1340	
Maximum Value	6.07	4.9	3.25	1752	
Num. Values	2	2	2	2	

FARO GROUND WATER QUALITY LISTING FOR 2000

STATION: P96-8B, Old Faro Cr channel by X23 (9.30m)

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
31/05/00	6.48	4	3.16	3714	
10/10/00	6.68	2	2.33	3270	
JAN 2000 - DEC 2000					
Mean	6.58	3	2.75	3492	
Std. Deviation	0.14	1.4	0.59	314	
Minimum Value	6.48	2	2.33	3270	
Maximum Value	6.68	4	3.16	3714	
Num. Values	2	2	2	2	

STATION: S1A, S of Sulphide Waste Dump (12.80m)

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
25/07/00	6.64	7.2	4.75	2530	
22/10/00	6.11	1.3	3.89	2357	
JAN 2000 - DEC 2000					
Mean	6.38	4.2	4.32	2444	
Std. Deviation	0.37	4.2	0.61	122	
Minimum Value	6.11	1.3	3.89	2357	
Maximum Value	6.64	7.2	4.75	2530	
Num. Values	2	2	2	2	

STATION: S1B, S of Sulphide Waste Dump (5.37m)

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
-----	-----	-----	-----	-----	-----
25/07/00	6.42	3.9	4.19		no sample taken
22/10/00	6.12	1.6	2.82	351	
JAN 2000 - DEC 2000					
Mean	6.27	2.8	3.5	351	
Std. Deviation	0.21	1.6	0.97	0	
Minimum Value	6.12	1.6	2.82	351	
Maximum Value	6.42	3.9	4.19	351	
Num. Values	2	2	2	1	

STATION: S2A, S of Sulphide Waste Dump (8.04m)

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
25/07/00	6.39	4.2	4.96	1408	
22/10/00	6.21	1.4	4.37		
JAN 2000 - DEC 2000					
Mean	6.3	2.8	4.66	1408	
Std. Deviation	0.13	2	0.42	0	
Minimum Value	6.21	1.4	4.37	1408	
Maximum Value	6.39	4.2	4.96	1408	
Num. Values	2	2	2	1	

FARO GROUND WATER QUALITY LISTING FOR 2000

STATION: S2B, S of Sulphide Waste Dump (10.60m)

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
25/07/00	5.56	4.7	3.6	388	
22/10/00	6.22	1.3	2.94	696	
JAN 2000 - DEC 2000					
Mean	5.89	3	3.27	542	
Std. Deviation	0.47	2.4	0.47	218	
Minimum Value	5.56	1.3	2.94	388	
Maximum Value	6.22	4.7	3.6	696	
Num. Values	2	2	2	2	

STATION: S3, S of Sulphide Waste Dump (6.56m)

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
25/07/00	6.37	5.5	2.49	2025	
22/10/00	6.03	1.4	1.41	1994	
JAN 2000 - DEC 2000					
Mean	6.2	3.4	1.95	2010	
Std. Deviation	0.24	2.9	0.76	22	
Minimum Value	6.03	1.4	1.41	1994	
Maximum Value	6.37	5.5	2.49	2025	
Num. Values	2	2	2	2	

STATION: X16A, By Rose Cr d/s CVDam (5m)

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
31/05/00	7.73	4	3.45	33	
9/10/00	7.12	5.3	3.4	60	
JAN 2000 - DEC 2000					
Mean	7.42	4.7	3.43	46	
Std. Deviation	0.43	0.9	0.04	19	
Minimum Value	7.12	4	3.4	33	
Maximum Value	7.73	5.3	3.45	60	
Num. Values	2	2	2	2	

STATION: X16B, By Rose Cr d/s CVDam (30m)

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
31/05/00	7.66	5	3.84	26	
9/10/00	7.38	1.1	3.66	87	
JAN 2000 - DEC 2000					
Mean	7.52	3.1	3.75	56	
Std. Deviation	0.2	2.8	0.13	43	
Minimum Value	7.38	1.1	3.66	26	
Maximum Value	7.66	5	3.84	87	
Num. Values	2	2	2	2	

FARO GROUND WATER QUALITY LISTING FOR 2000

STATION: X17A, d/s CVdam & u/s of X14 across diversion (5m)

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
31/05/00	8.13	5	2.27	43	
10/10/00	7.83	4.4	1.94	107	
JAN 2000 - DEC 2000					
Mean	7.98	4.7	2.11	75	
Std. Deviation	0.21	0.4	0.23	45	
Minimum Value	7.83	4.4	1.94	43	
Maximum Value	8.13	5	2.27	107	
Num. Values	2	2	2	2	

STATION: X17B,d/s CVDam & u/s of X14 across diversion (20m)

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
31/05/00	8.14	7	2.81	25	
10/10/00	7.68	4.2	2.49	79	
JAN 2000 - DEC 2000					
Mean	7.91	5.6	2.65	52	
Std. Deviation	0.33	2	0.23	38	
Minimum Value	7.68	4.2	2.49	25	
Maximum Value	8.14	7	2.81	79	
Num. Values	2	2	2	2	

STATION: X18A,N of CVDam, & right of access rd to X14 (10m)

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
31/05/00			3.78		
27/06/00	6.35	8	3.41	435	0.24
9/10/00	7	4.5	2.93	131	
JAN 2000 - DEC 2000					
Mean	6.67	6.2	3.37	283	0.24
Std. Deviation	0.46	2.5	0.43	215	0
Minimum Value	6.35	4.5	2.93	131	0.24
Maximum Value	7	8	3.78	435	0.24
Num. Values	2	2	3	2	1

STATION: X18B,N of CVDam, & right of access rd to X14 (20m)

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
31/05/00	7.16	6	4.15	399	
9/10/00	7.09	3.3	3.88	245	
JAN 2000 - DEC 2000					
Mean	7.12	4.6	4.02	322	
Std. Deviation	0.05	1.9	0.19	109	
Minimum Value	7.09	3.3	3.88	245	
Maximum Value	7.16	6	4.15	399	
Num. Values	2	2	2	2	

FARO GROUND WATER QUALITY LISTING FOR 2000

STATION: X19A, d/s CVDam by X13 (12m)

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
31/05/00	7.53	5	6.88	238	
9/10/00	7.51	5.9	6.74	152	
JAN 2000 - DEC 2000					
Mean	7.52	5.5	6.81	195	
Std. Deviation	0.01	0.6	0.1	61	
Minimum Value	7.51	5	6.74	152	
Maximum Value	7.53	5.9	6.88	238	
Num. Values	2	2	2	2	

STATION: X19B, d/s CVDam by X13 (27m)

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
31/05/00	7.33	5	5.55	338	
9/10/00	7.13	3	5.34	140	
JAN 2000 - DEC 2000					
Mean	7.23	4	5.45	239	
Std. Deviation	0.14	1.4	0.15	140	
Minimum Value	7.13	3	5.34	140	
Maximum Value	7.33	5	5.55	338	
Num. Values	2	2	2	2	

STATION: X21A-96, Toe 2nd Impoundment (9.22m), P96-5A

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
31/05/00			4.64		no sample tube
27/06/00			4.25		not sampled
10/10/00			3.65		
JAN 2000 - DEC 2000					
Mean			4.18		
Std. Deviation			0.5		
Minimum Value			3.65		
Maximum Value			4.64		
Num. Values			3		

STATION: X21B-96, Toe 2nd Impoundment (15.43m), P96-5B

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
31/05/00	7.69	5	4.62	386	
10/10/00	7.05	5.9	3.71	158	
JAN 2000 - DEC 2000					
Mean	7.37	5.5	4.16	272	
Std. Deviation	0.45	0.6	0.64	161	
Minimum Value	7.05	5	3.71	158	
Maximum Value	7.69	5.9	4.62	386	
Num. Values	2	2	2	2	

FARO GROUND WATER QUALITY LISTING FOR 2000

STATION: X21C-96, Toe 2nd Impoundment (30.18m), P96-5C

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
31/05/00	8.06	4	4.68	11	
10/10/00	7.69	3.8	4.85	53	
JAN 2000 - DEC 2000					
Mean	7.88	3.9	4.76	32	
Std. Deviation	0.26	0.1	0.12	30	
Minimum Value	7.69	3.8	4.68	11	
Maximum Value	8.06	4	4.85	53	
Num. Values	2	2	2	2	

STATION: X24A-96, N abutment Int Dam (5.88m), P96-4A

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
27/06/00	6.06	6	3.14	515	0.93
10/10/00	6.41	2.3	2.92	281	
JAN 2000 - DEC 2000					
Mean	6.23	4.1	3.03	398	0.93
Std. Deviation	0.25	2.6	0.16	165	0
Minimum Value	6.06	2.3	2.92	281	0.93
Maximum Value	6.41	6	3.14	515	0.93
Num. Values	2	2	2	2	1

STATION: X24B-96, N abutment Int Dam (10.80m), P96-4B

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
27/06/00			3.08		not sampled
10/10/00			2.85		
JAN 2000 - DEC 2000					
Mean			2.96		
Std. Deviation			0.16		
Minimum Value			2.85		
Maximum Value			3.08		
Num. Values			2		

STATION: X24C-96, N abutment Int Dam (15.87), P96-4C

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
27/06/00			3.07		no H2O raised
25/07/00	6.77	4	2.84	789	
10/10/00	6.67	2.5	2.83		
JAN 2000 - DEC 2000					
Mean	6.72	3.2	2.91	789	
Std. Deviation	0.07	1.1	0.14	0	
Minimum Value	6.67	2.5	2.83	789	
Maximum Value	6.77	4	3.07	789	
Num. Values	2	2	3	1	

FARO GROUND WATER QUALITY LISTING FOR 2000

STATION: X24D-96, N abutment Int Dam (28.22m), P96-4D

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
27/06/00	5.8	6	2.93	922	0.72
10/10/00	6.54	2.3	2.71	447	
JAN 2000 - DEC 2000					
Mean	6.17	4.1	2.82	684	0.72
Std. Deviation	0.52	2.6	0.16	336	0
Minimum Value	5.8	2.3	2.71	447	0.72
Maximum Value	6.54	6	2.93	922	0.72
Num. Values	2	2	2	2	1

STATION: X25A-96, S abutment Int Dam (9.65m), P96-3A

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
27/06/00	6.93	6	2.41	276	1.68
10/10/00	6.82	2.8	2.2	206	
JAN 2000 - DEC 2000					
Mean	6.88	4.4	2.31	241	1.68
Std. Deviation	0.08	2.3	0.15	49	0
Minimum Value	6.82	2.8	2.2	206	1.68
Maximum Value	6.93	6	2.41	276	1.68
Num. Values	2	2	2	2	1

STATION: X25B-96, S abutment Int Dam (19.80m), P96-3B

	PH-F	TEMP-C	SWL	SO4-T	NH3-N
Date	pH unit	deg C	meters	mg/L	mg/L
27/06/00	7.19	5	2.26	348	0.07
10/10/00	7.21	2.7	2.05	177	
JAN 2000 - DEC 2000					
Mean	7.2	3.9	2.15	262	0.07
Std. Deviation	0.01	1.6	0.15	121	0
Minimum Value	7.19	2.7	2.05	177	0.07
Maximum Value	7.21	5	2.26	348	0.07
Num. Values	2	2	2	2	1

FARO GROUND WATER QUALITY LISTING FOR 2000

STATION: BH2, W of Zone II, by NFR Cr. (5.55m)

	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	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
Date	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	mg/L
04/06/00	<.003	<.05	<.005	<.05	0.081	<.001	<.05	71.8	0.015	<.005	<.005	<.002	0.04	3	<.005	25.9	0.14	<.002	6	0.045	5	0.01	79	<.03	<.005	3.6	<.01	0.427	<.005	<.005	<.03	7.53
22/10/00	<.003	0.91	<.005	<.05	0.252	0.002	<.05	106.3	0.03	<.005	<.005	0.052	1.25	4	0.011	33.3	0.8	0.028	7	0.1	<1	0.05	73	0.09	<.005	7	<.01	0.513	0.039	<.005	<.03	15.02
JAN 2000 - DEC 2000																																
Mean	0.003	0.48	0.005	0.05	0.167	0.002	0.05	89.1	0.022	0.005	0.005	0.027	0.64	4	0.008	29.6	0.47	0.015	6	0.073	3	0.03	76	0.06	0.005	5.3	0.01	0.47	0.022	0.005	0.03	11.28
Std. Deviation	0	0.61	0	0	0.121	0.001	0	24.4	0.011	0	0	0.035	0.86	1	0.004	5.2	0.47	0.018	1	0.039	3	0.03	4	0.04	0	2.4	0	0.061	0.024	0	0	5.3
Minimum Value	0.003	0.05	0.005	0.05	0.081	0.001	0.05	71.8	0.015	0.005	0.005	0.002	0.04	3	0.005	25.9	0.14	0.002	6	0.045	1	0.01	73	0.03	0.005	3.6	0.01	0.427	0.005	0.005	0.03	7.53
Maximum Value	0.003	0.91	0.005	0.05	0.252	0.002	0.05	106.3	0.03	0.005	0.005	0.052	1.25	4	0.011	33.3	0.8	0.028	7	0.1	5	0.05	79	0.09	0.005	7	0.01	0.513	0.039	0.005	0.03	15.02
Num. Values	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

STATION: BH14, W of Zone II, by NFR Cr. (3.20m)

	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	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
Date	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	mg/L
04/06/00	<.003	<.05	<.005	<.05	0.068	<.001	<.05	50.4	0.007	0.007	<.005	<.002	<.01	3	<.005	14.1	0.34	0.007	5	0.029	<1	<.01	62	<.03	<.005	4.7	<.01	0.321	<.005	<.005	<.03	4.01
22/10/00	<.003	18.25	0.112	<.05	0.07	0.01	<.05	233.7	0.027	0.173	<.005	0.107	0.39	3	<.005	60.2	2.3	0.031	10	0.217	<1	0.11	141	0.07	<.005	13.5	<.01	0.925	0.03	<.005	<.03	14.99
JAN 2000 - DEC 2000																																
Mean	0.003	9.15	0.059	0.05	0.069	0.005	0.05	142	0.017	0.09	0.005	0.055	0.2	3	0.005	37.2	1.32	0.019	8	0.123	1	0.06	102	0.05	0.005	9.1	0.01	0.623	0.017	0.005	0.03	9.5
Std. Deviation	0	12.87	0.076	0	0.001	0.006	0	129.6	0.014	0.117	0	0.074	0.27	0	0	32.6	1.39	0.017	4	0.133	0	0.07	56	0.03	0	6.2	0	0.427	0.018	0	0	7.76
Minimum Value	0.003	0.05	0.005	0.05	0.068	0.001	0.05	50.4	0.007	0.007	0.005	0.002	0.01	3	0.005	14.1	0.34	0.007	5	0.029	1	0.01	62	0.03	0.005	4.7	0.01	0.321	0.005	0.005	0.03	4.01
Maximum Value	0.003	18.25	0.112	0.05	0.07	0.01	0.05	233.7	0.027	0.173	0.005	0.107	0.39	3	0.005	60.2	2.3	0.031	10	0.217	1	0.11	141	0.07	0.005	13.5	0.01	0.925	0.03	0.005	0.03	14.99
Num. Values	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	

STATION: BH12A, W of Zone II, by NFR Cr. (2.85m)

	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	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
Date	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	mg/L
26/06/00	<.003	0.12	<.005	<.05	0.06	0.003	<.05	221	<.001	<.005	0.026	0.029	0.02	6	<.005	82	0.95	<.002	9	0.009	5	<.01	193	<.03	<.005	4.8	<.01	0.96	0.022	0.014	<.03	0.64
22/10/00	<.003	0.3	<.005	<.05	0.025	0.002	<.05	96	<.001	<.005	<.005	0.006	0.06	2	<.005	42.4	0.02	<.002	6	0.008	<1	<.01	96	0.05	<.005	5.6	<.01	0.39	0.025	<.005	<.03	0.01
JAN 2000 - DEC 2000																																
Mean	0.003	0.21	0.005	0.05	0.042	0.003	0.05	158.5	0.001	0.005	0.016	0.017	0.04	4	0.005	62.2	0.48	0.002	8	0.008	3	0.01	144	0.04	0.005	5.2	0.01	0.675	0.024	0.01	0.03	0.32
Std. Deviation	0	0.13	0	0	0.025	0.001	0	88.4	0	0	0.015	0.016	0.03	3	0	28	0.66	0	2	0.001	3	0	69	0.01	0	0.6	0	0.403	0.002	0.006	0	0.45
Minimum Value	0.003	0.12	0.005	0.05	0.025	0.002	0.05	96	0.001	0.005	0.005	0.006	0.02	2	0.005	42.4	0.02	0.002	6	0.008	1	0.01	96	0.03	0.005	4.8	0.01	0.39	0.022	0.005	0.03	0.01
Maximum Value	0.003	0.3	0.005	0.05	0.06	0.003	0.05	221	0.001	0.005	0.026	0.029	0.06	6	0.005	82	0.95	0.002	9	0.009	5	0.01	193	0.05	0.005	5.6	0.01	0.96	0.025	0.014	0.03	0.64
Num. Values	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

STATION: BH12B, W of Zone II, by NFR Cr. (8.05m)

	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	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
Date	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	mg/L
26/06/00	<.003	0.17	<.005	<.05	0.066	0.003	<.05	233.3	<.001	<.005	<.005	0.028	0.03	6	<.005	79.7	0.4	<.002	10	0.015	4	<.01	211	0.04	<.005	4.8	<.01	0.988	0.026	0.007	<.03	0.44
22/10/00	<.003	0.99	<.005	<.05	0.187	0.002	<.05	117.5	<.001	<.005	<.005	0.064	0.41	3	<.005	38.2	0.08	0.007	6	0.009	<1	<.01	86	<.03	<.005	5.7	<.01	0.51	0.057	<.005	<.03	0.03
JAN 2000 - DEC 2000																																
Mean	0.003	0.58	0.005	0.05	0.127	0.003	0.05	175.4	0.001	0.005	0.005	0.046	0.22	4	0.005	58.9	0.24	0.005	8	0.012	2	0.01	148	0.03	0.005	5.2	0.01	0.749	0.042	0.006	0.03	0.23
Std. Deviation	0	0.58	0	0	0.086	0.001	0	81.9	0	0	0	0.025	0.27	2	0	29.3	0.23	0.004	3	0.004	2	0	88	0.01	0	0.6	0	0.338	0.022	0.001	0	0.29
Minimum Value	0.003	0.17	0.005	0.05	0.066	0.002	0.05	117.5	0.001	0.005	0.005	0.028	0.03	3	0.005	38.2	0.08	0.002	6	0.009	1	0.01	86	0.03	0.005	4.8	0.01	0.51	0.026	0.005	0.03	0.03
Maximum Value	0.003	0.99	0.005	0.05	0.187	0.003	0.05	233.3	0.001	0.005	0.005	0.064	0.41	6	0.005	79.7	0.4	0.007	10	0.015	4	0.01	211	0.04	0.005	5.7	0.01	0.988	0.057	0.007	0.03	0.44
Num. Values	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

FARO GROUND WATER QUALITY LISTING FOR 2000

STATION: BH13B, W of Zone II, by NFR Cr. (4.25m)

	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	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
Date	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	
22/10/00	<.003	1.75	<.005	<.05	0.129	0.003	<.05	172.3	<.001	0.013	<.005	0.123	0.84	4	0.014	54.6	0.05	<.002	8	0.008	<1	<.01	126	<.03	<.005	5.6	<.01	0.831	0.058	<.005	<.03	0.02
JAN 2000 - DEC 2000																																
Mean	0.003	1.75	0.005	0.05	0.129	0.003	0.05	172.3	0.001	0.013	0.005	0.123	0.84	4	0.014	54.6	0.05	0.002	8	0.008	1	0.01	126	0.03	0.005	5.6	0.01	0.831	0.058	0.005	0.03	0.02
Std. Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Minimum Value	0.003	1.75	0.005	0.05	0.129	0.003	0.05	172.3	0.001	0.013	0.005	0.123	0.84	4	0.014	54.6	0.05	0.002	8	0.008	1	0.01	126	0.03	0.005	5.6	0.01	0.831	0.058	0.005	0.03	0.02
Maximum Value	0.003	1.75	0.005	0.05	0.129	0.003	0.05	172.3	0.001	0.013	0.005	0.123	0.84	4	0.014	54.6	0.05	0.002	8	0.008	1	0.01	126	0.03	0.005	5.6	0.01	0.831	0.058	0.005	0.03	0.02
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

STATION: BH14A, W of Zone II, by NFR Cr. (6.22m)

	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	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
Date	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	mg/L
26/06/00	<.003	0.23	<.005	<.05	0.08	0.003	<.05	351.9	<.001	<.005	<.005	0.034	0.02	6	<.005	105.6	0.26	<.002	21	0.009	<1	0.01	268	0.06	<.005	6.4	<.01	1.574	0.034	0.014	<.03	0.71
22/10/00	<.003	0.44	<.005	<.05	0.028	0.004	<.05	375	0.001	<.005	<.005	0.035	0.07	4	0.014	111.2	0.02	<.002	18	0.014	<1	<.01	268	<.03	<.005	7.5	<.01	1.667	0.043	<.005	<.03	<.01
JAN 2000 - DEC 2000																																
Mean	0.003	0.34	0.005	0.05	0.054	0.004	0.05	363.4	0.001	0.005	0.005	0.035	0.04	5	0.01	108.4	0.14	0.002	20	0.012	1	0.01	268	0.04	0.005	7	0.01	1.621	0.039	0.01	0.03	0.36
Std. Deviation	0	0.15	0	0	0.037	0.001	0	16.3	0	0	0	0.001	0.04	1	0.006	4	0.17	0	2	0.004	0	0	0	0.02	0	0.8	0	0.066	0.006	0.006	0	0.49
Minimum Value	0.003	0.23	0.005	0.05	0.028	0.003	0.05	351.9	0.001	0.005	0.005	0.034	0.02	4	0.005	105.6	0.02	0.002	18	0.009	1	0.01	268	0.03	0.005	6.4	0.01	1.574	0.034	0.005	0.03	0.01
Maximum Value	0.003	0.44	0.005	0.05	0.08	0.004	0.05	375	0.001	0.005	0.005	0.035	0.07	6	0.014	111.2	0.26	0.002	21	0.014	1	0.01	268	0.06	0.005	7.5	0.01	1.667	0.043	0.014	0.03	0.71
Num. Values	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

STATION: BH14B, W of Zone II, by NFR Cr. (10.00m)

	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	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
Date	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	
03/06/00	<.003	0.15	<.005	<.05	0.094	0.001	<.05	381.6	0.008	<.005	<.005	0.017	0.03	5	<.005	125.2	0.11	<.002	15	0.008	<1	0.05	319	<.03	<.005	6	<.01	1.84	0.014	<.005	<.03	0.05
22/10/00	<.003	0.44	<.005	<.05	0.034	0.004	<.05	390	0.005	0.006	<.005	0.031	0.09	5	<.005	120.3	0.03	<.002	18	0.022	<1	<.01	291	<.03	<.005	7.7	<.01	1.827	0.041	<.005	<.03	<.01
JAN 2000 - DEC 2000																																
Mean	0.003	0.3	0.005	0.05	0.064	0.003	0.05	385.8	0.007	0.005	0.005	0.024	0.06	5	0.005	122.8	0.07	0.002	16	0.015	1	0.03	305	0.03	0.005	6.8	0.01	1.834	0.028	0.005	0.03	0.03
Std. Deviation	0	0.21	0	0	0.042	0.002	0	5.9	0.002	0.001	0	0.01	0.04	0	0	3.5	0.06	0	2	0.01	0	0.03	20	0	0	1.2	0	0.009	0.019	0	0	0.03
Minimum Value	0.003	0.15	0.005	0.05	0.034	0.001	0.05	381.6	0.005	0.005	0.005	0.017	0.03	5	0.005	120.3	0.03	0.002	15	0.008	1	0.01	291	0.03	0.005	6	0.01	1.827	0.014	0.005	0.03	0.01
Maximum Value	0.003	0.44	0.005	0.05	0.094	0.004	0.05	390	0.008	0.006	0.005	0.031	0.09	5	0.005	125.2	0.11	0.002	18	0.022	1	0.05	319	0.03	0.005	7.7	0.01	1.84	0.041	0.005	0.03	0.05
Num. Values	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	

STATION: P96-6, Toe Int Dump above Rock Drain (20.85m)

	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	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
Date	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	
25/07/00	<.003	<.05	<.005	<.05	0.1	0.002	<.05	103	0.006	0.008	<.005	0.012	0.23	5	0.126	33	0.73	<.002	12	0.05	<1	<.01	69	<.03	<.005	11.8	<.01	0.568	0.012	0.013	<.03	2.77
22/10/00	<.003	0.11	<.005	<.05	0.03	0.003	<.05	169.5	<.001	<.005	<.005	0.013	0.12	4	<.005	56.9	0.03	<.002	9	0.017	<1	<.01	132	0.05	<.005	8.7	<.01	0.578	0.017	<.005	<.03	0.1
JAN 2000 - DEC 2000																																
Mean	0.003	0.08	0.005	0.05	0.065	0.003	0.05	136.2	0.004	0.007	0.005	0.013	0.18	4	0.066	45	0.38	0.002	10	0.034	1	0.01	100	0.04	0.005	10.2	0.01	0.573	0.015	0.009	0.03	1.43
Std. Deviation	0	0.04	0	0	0.049	0.001	0	47	0.004	0.002	0	0.001	0.08	1	0.086	16.9	0.49	0	2	0.023	0	0	45	0.01	0	2.2	0	0.007	0.004	0.006	0	1.89
Minimum Value	0.003	0.05	0.005	0.05	0.03	0.002	0.05	103	0.001	0.005	0.005	0.012	0.12	4	0.005	33	0.03	0.002	9	0.017	1	0.01	69	0.03	0.005	8.7	0.01	0.568	0.012	0.005	0.03	0.1
Maximum Value	0.003	0.11	0.005	0.05	0.1	0.003	0.05	169.5	0.006	0.008	0.005	0.013	0.23	5	0.126	56.9	0.73	0.002	12	0.05	1	0.01	132	0.05	0.005	11.8	0.01	0.578	0.017	0.013	0.03	2.77
Num. Values	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	

FARO GROUND WATER QUALITY LISTING FOR 2000

STATION: P96-7, Toe Main Dump, below Haul Road (9.90m)

	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	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
Date	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	mg/L
22/10/00	<.003	0.56	<.005	0.05	0.04	0.004	<.05	525.9	0.004	<.005	<.005	0.037	0.59	8	<.005	99.9	0.2	<.002	19	<.005	<1	<.01	240	<.03	<.005	5.9	<.01	0.796	0.054	<.005	<.03	<.01
JAN 2000 - DEC 2000																																
Mean	0.003	0.56	0.005	0.05	0.04	0.004	0.05	525.9	0.004	0.005	0.005	0.037	0.59	8	0.005	99.9	0.2	0.002	19	0.005	1	0.01	240	0.03	0.005	5.9	0.01	0.796	0.054	0.005	0.03	0.01
Std. Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Minimum Value	0.003	0.56	0.005	0.05	0.04	0.004	0.05	525.9	0.004	0.005	0.005	0.037	0.59	8	0.005	99.9	0.2	0.002	19	0.005	1	0.01	240	0.03	0.005	5.9	0.01	0.796	0.054	0.005	0.03	0.01
Maximum Value	0.003	0.56	0.005	0.05	0.04	0.004	0.05	525.9	0.004	0.005	0.005	0.037	0.59	8	0.005	99.9	0.2	0.002	19	0.005	1	0.01	240	0.03	0.005	5.9	0.01	0.796	0.054	0.005	0.03	0.01
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

STATION: P96-8A, Old Faro Cr channel by X23 (4.87m)

	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	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
Date	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	
31/05/00	<.003	0.3	<.005	0.07	0.065	0.002	<.05	259.9	0.004	<.005	<.005	0.022	0.02	6	<.005	188.9	0.9	<.002	20	0.074	<1	<.01	447	<.03	<.005	7	<.01	1.388	0.017	<.005	<.03	6.32
10/10/00	<.003	0.51	<.005	0.07	0.041	0.003	<.05	425	0.037	0.01	<.005	0.041	0.18	10	<.005	235.6	2.08	0.072	26	0.259	7	0.2	584	0.11	<.005	7.3	<.01	2.243	0.041	0.007	<.03	35.86
JAN 2000 - DEC 2000																																
Mean	0.003	0.41	0.005	0.07	0.053	0.003	0.05	342.4	0.021	0.007	0.005	0.032	0.11	8	0.005	212.2	1.49	0.037	23	0.167	4	0.11	516	0.07	0.005	7.2	0.01	1.816	0.029	0.006	0.03	21.09
Std. Deviation	0	0.15	0	0	0.017	0.001	0	116.7	0.023	0.004	0	0.013	0.11	3	0	33	0.83	0.049	4	0.131	4	0.13	97	0.06	0	0.2	0	0.605	0.017	0.001	0	20.89
Minimum Value	0.003	0.3	0.005	0.07	0.041	0.002	0.05	259.9	0.004	0.005	0.005	0.022	0.02	6	0.005	188.9	0.9	0.002	20	0.074	1	0.01	447	0.03	0.005	7	0.01	1.388	0.017	0.005	0.03	6.32
Maximum Value	0.003	0.51	0.005	0.07	0.065	0.003	0.05	425	0.037	0.01	0.005	0.041	0.18	10	0.005	235.6	2.08	0.072	26	0.259	7	0.2	584	0.11	0.005	7.3	0.01	2.243	0.041	0.007	0.03	35.86
Num. Values	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	

STATION: P96-8B, Old Faro Cr channel by X23 (9.30m)

	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	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
Date	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	mg/L
31/05/00	<.003	0.44	<.005	0.11	0.09	0.004	<.05	626.4	0.003	<.005	<.005	0.042	0.09	10	<.005	475.5	14.63	<.002	39	0.102	1	<.01	1238	<.03	<.005	9.7	<.01	3.157	0.034	<.005	<.03	10.09
10/10/00	<.003	0.73	<.005	0.07	0.043	0.004	<.05	455.7	0.022	0.028	<.005	0.053	0.25	11	<.005	437.9	13.89	0.042	46	0.162	5	0.08	1090	0.04	<.005	8.7	<.01	2.992	0.046	<.005	<.03	16.65
JAN 2000 - DEC 2000																																
Mean	0.003	0.59	0.005	0.09	0.067	0.004	0.05	541.1	0.012	0.017	0.005	0.047	0.17	10	0.005	456.7	14.26	0.022	42	0.132	3	0.04	1164	0.03	0.005	9.2	0.01	3.075	0.04	0.005	0.03	13.37
Std. Deviation	0	0.21	0	0.03	0.033	0	0	120.7	0.013	0.016	0	0.008	0.11	1	0	26.6	0.52	0.028	5	0.042	3	0.05	105	0.01	0	0.7	0	0.117	0.008	0	0	4.64
Minimum Value	0.003	0.44	0.005	0.07	0.043	0.004	0.05	455.7	0.003	0.005	0.005	0.042	0.09	10	0.005	437.9	13.89	0.002	39	0.102	1	0.01	1090	0.03	0.005	8.7	0.01	2.992	0.034	0.005	0.03	10.09
Maximum Value	0.003	0.73	0.005	0.11	0.09	0.004	0.05	626.4	0.022	0.028	0.005	0.053	0.25	11	0.005	475.5	14.63	0.042	46	0.162	5	0.08	1238	0.04	0.005	9.7	0.01	3.157	0.046	0.005	0.03	16.65
Num. Values	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	

STATION: S1A, S of Sulphide Waste Dump (12.80m)

	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	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
Date	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	
25/07/00	<.003	0.34	<.005	<.05	0.126	0.004	<.05	471.3	0.01	<.005	<.005	0.044	0.29	9	0.116	334.9	8.1	<.002	25	0.107	7	<.01	843	<.03	<.005	9.5	<.01	1.737	0.041	<.005	<.03	1.25
22/10/00	<.003	1.01	<.005	0.06	0.07	0.005	<.05	453.6	0.001	<.005	<.005	0.041	1.35	9	0.022	318.2	9.39	<.002	22	0.153	<1	0.01	786	<.03	<.005	10.9	<.01	1.607	0.083	<.005	<.03	0.31
JAN 2000 - DEC 2000																																
Mean	0.003	0.67	0.005	0.05	0.098	0.005	0.05	462.4	0.005	0.005	0.005	0.043	0.82	9	0.069	326.6	8.75	0.002	24	0.13	4	0.01	814	0.03	0.005	10.2	0.01	1.672	0.062	0.005	0.03	0.78
Std. Deviation	0	0.47	0	0.01	0.04	0.001	0	12.5	0.006	0	0	0.002	0.75	0	0.066	11.8	0.91	0	2	0.033	4	0	40	0	0	1	0	0.092	0.03	0	0	0.66
Minimum Value	0.003	0.34	0.005	0.05	0.07	0.004	0.05	453.6	0.001	0.005	0.005	0.041	0.29	9	0.022	318.2	8.1	0.002	22	0.107	1	0.01	786	0.03	0.005	9.5	0.01	1.607	0.041	0.005	0.03	0.31
Maximum Value	0.003	1.01	0.005	0.06	0.126	0.005	0.05	471.3	0.01	0.005	0.005	0.044	1.35	9	0.116	334.9	9.39	0.002	25	0.153	7	0.01	843	0.03	0.005	10.9	0.01	1.737	0.083	0.005	0.03	1.25
Num. Values	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	

FARO GROUND WATER QUALITY LISTING FOR 2000

STATION: S1B, S of Sulphide Waste Dump (5.37m)

Date	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	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
22/10/00	<0.03	0.57	<0.05	<0.05	0.046	0.003	<0.05	231.7	<0.001	<0.005	<0.005	0.024	0.61	4	<0.005	50.8	0.62	<0.002	46	<0.005	<1	<0.1	117	<0.03	<0.005	7.5	<0.1	0.674	0.046	<0.005	<0.03	0.04
JAN 2000 - DEC 2000	Mean	0.003	0.57	0.005	0.046	0.003	0.05	231.7	0.001	0.005	0.005	0.024	0.61	4	0.005	50.8	0.62	0.002	46	0.005	1	0.01	117	0.03	0.005	7.5	0.01	0.674	0.046	0.005	0.03	0.04
Std. Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Value	0.003	0.57	0.005	0.05	0.046	0.003	0.05	231.7	0.001	0.005	0.005	0.024	0.61	4	0.005	50.8	0.62	0.002	46	0.005	1	0.01	117	0.03	0.005	7.5	0.01	0.674	0.046	0.005	0.03	0.04
Maximum Value	0.003	0.57	0.005	0.05	0.046	0.003	0.05	231.7	0.001	0.005	0.005	0.024	0.61	4	0.005	50.8	0.62	0.002	46	0.005	1	0.01	117	0.03	0.005	7.5	0.01	0.674	0.046	0.005	0.03	0.04
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

STATION: S2A, S of Sulphide Waste Dump (8.04m)

Date	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	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	
25/07/00	<0.03	0.16	<0.05	<0.05	0.07	0.003	<0.05	404.4	0.007	0.016	<0.005	0.038	0.56	7	0.116	102.7	3.41	<0.002	14	0.035	6	<0.1	469	<0.03	<0.005	5.8	<0.1	1.466	0.034	0.007	<0.03	0.31	
JAN 2000 - DEC 2000	Mean	0.003	0.16	0.005	0.05	0.07	0.003	0.05	404.4	0.007	0.016	0.005	0.038	0.56	7	0.116	102.7	3.41	0.002	14	0.035	6	0.01	469	0.03	0.005	5.8	0.01	1.466	0.034	0.007	0.03	0.31
Std. Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Minimum Value	0.003	0.16	0.005	0.05	0.07	0.003	0.05	404.4	0.007	0.016	<0.005	0.038	0.56	7	0.116	102.7	3.41	0.002	14	0.035	6	0.01	469	0.03	0.005	5.8	0.01	1.466	0.034	0.007	0.03	0.31	
Maximum Value	0.003	0.16	0.005	0.05	0.07	0.003	0.05	404.4	0.007	0.016	<0.005	0.038	0.56	7	0.116	102.7	3.41	0.002	14	0.035	6	0.01	469	0.03	0.005	5.8	0.01	1.466	0.034	0.007	0.03	0.31	
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

STATION: S2B, S of Sulphide Waste Dump (10.60m)

Date	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	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	
25/07/00	<0.03	<0.05	<0.05	<0.05	0.042	0.002	<0.05	93.3	0.002	0.027	<0.005	0.018	1.37	8	0.09	38.4	0.58	<0.002	6	0.023	5	<0.1	129	<0.03	<0.005	2.2	<0.1	0.419	0.017	<0.005	<0.03	0.22	
22/10/00	<0.03	0.38	<0.05	<0.05	0.249	0.003	<0.05	235.5	<0.01	<0.005	<0.005	0.09	0.37	6	0.01	96.8	0.56	<0.002	11	0.021	<1	<0.1	232	0.04	<0.005	6.8	<0.1	0.905	0.034	<0.005	<0.03	0.05	
JAN 2000 - DEC 2000	Mean	0.003	0.21	0.005	0.05	0.145	0.003	0.05	164.4	0.002	0.016	0.005	0.054	0.87	7	0.05	67.6	0.57	0.002	8	0.022	3	0.01	180	0.03	0.005	4.5	0.01	0.662	0.026	0.005	0.03	0.13
Std. Deviation	0	0.23	0	0	0.146	0.001	0	100.6	0.001	0.016	0	0.051	0.71	1	0.057	41.3	0.01	0	4	0.001	3	0	73	0.01	0	3.3	0	0.344	0.012	0	0	0.12	0
Minimum Value	0.003	0.05	0.005	0.05	0.042	0.002	0.003	93.3	0.001	0.005	0.005	0.018	0.37	6	0.01	38.4	0.56	0.002	6	0.021	1	0.01	129	0.03	0.005	2.2	0.01	0.419	0.017	0.005	0.03	0.05	0.05
Maximum Value	0.003	0.38	0.005	0.05	0.249	0.003	0.05	235.5	0.002	0.027	0.005	0.09	1.37	8	0.09	96.8	0.58	0.002	11	0.023	5	0.01	232	0.04	0.005	6.8	0.01	0.905	0.034	0.005	0.03	0.22	0.22
Num. Values	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

STATION: S3, S of Sulphide Waste Dump (6.56m)

Date	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	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
25/07/00	<0.03	0.24	<0.05	<0.05	0.082	0.004	<0.05	360.4	0.004	0.019	<0.005	0.037	0.33	9	0.065	252.4	2.07	<0.002	19	0.007	8	<0.1	675	<0.03	<0.005	7.6	0.01	1.421	0.033	<0.005	<0.03	0.24
22/10/00	<0.03	0.34	<0.05	0.06	0.054	0.004	<0.05	399.8	0.001	<0.005	<0.005	0.036	8.79	8	<0.005	269.9	2.07	<0.002	17	0.025	<1	<0.1	665	<0.03	<0.005	8.8	<0.1	1.451	0.045	<0.005	<0.03	0.05
JAN 2000 - DEC 2000	Mean	0.003	0.39	0.005	0.068	0.004	0.05	380.1	0.003	0.012	0.005	0.036	4.56	8	0.035	261.1	2.07	0.002	18	0.016	4	0.01	670	0.03	0.005	8.2	0.01	1.436	0.039	0.005	0.03	0.14
Std. Deviation	0	0.21	0	0.01	0.02	0	0	27.9	0.002	0.01	0	0.001	5.98	1	0.042	12.4	0	0	1	0.013	5	0	7	0	0	0.8	0	0.021	0.008	0	0	0.13
Minimum Value	0.003	0.24	0.005	0.05	0.054	0.004	0.05	360.4	0.001	0.005	0.005	0.036	0.33	8	0.005	252.4	2.07	0.002	17	0.007	1	0.01	665	0.03	0.005	7.6	0.01	1.421	0.033	0.005	0.03	0.05
Maximum Value	0.003	0.54	0.005	0.06	0.082	0.004	0.05	399.8	0.004	0.019	0.005	0.037	8.79	9	0.065	269.9	2.07	0.002	19	0.025	8	0.01	675	0.03	0.005	8.8	0.01	1.451	0.045	0.005	0.03	0.24
Num. Values	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

FARO GROUND WATER QUALITY LISTING FOR 2000

STATION: X16A, By Rose Cr d/s CVDam (5m)

	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	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
Date	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	mg/L
31/05/00	<.003	<.05	0.007	<.05	0.031	<.001	<.05	39.8	0.001	<.005	<.005	<.002	<.01	<1	<.005	9.6	0.3	<.002	3	<.005	<1	<.01	11	<.03	<.005	4	<.01	0.142	<.005	<.005	<.03	0.09
09/10/00	<.003	0.08	<.005	<.05	0.042	<.001	<.05	38.1	<.001	<.005	<.005	0.004	0.06	2	<.005	10	0.33	<.002	4	<.005	3	<.01	20	<.03	<.005	3.7	<.01	0.15	0.006	0.013	<.03	0.04
JAN 2000 - DEC 2000																																
Mean	0.003	0.06	0.006	0.05	0.036	0.001	0.05	38.9	0.001	0.005	0.005	0.003	0.03	2	0.005	9.8	0.32	0.002	4	0.005	2	0.01	16	0.03	0.005	3.9	0.01	0.146	0.005	0.009	0.03	0.07
Std. Deviation	0	0.02	0.001	0	0.008	0	0	1.2	0	0	0	0.001	0.04	1	0	0.3	0.02	0	1	0	1	0	6	0	0	0.2	0	0.006	0.001	0.006	0	0.04
Minimum Value	0.003	0.05	0.005	0.05	0.031	0.001	0.05	38.1	0.001	0.005	0.005	0.002	0.01	1	0.005	9.6	0.3	0.002	3	0.005	1	0.01	11	0.03	0.005	3.7	0.01	0.142	0.005	0.005	0.03	0.04
Maximum Value	0.003	0.08	0.007	0.05	0.042	0.001	0.05	39.8	0.001	0.005	0.005	0.004	0.06	2	0.005	10	0.33	0.002	4	0.005	3	0.01	20	0.03	0.005	4	0.01	0.15	0.006	0.013	0.03	0.09
Num. Values	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

STATION: X16B, By Rose Cr d/s CVDam (30m)

	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	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
Date	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	mg/L
31/05/00	<.003	<.05	0.025	<.05	0.044	<.001	<.05	48.5	0.003	<.005	0.016	<.002	<.01	<1	<.005	13.1	0.24	<.002	2	0.007	<1	<.01	9	<.03	<.005	4.4	<.01	0.172	<.005	<.005	<.03	0.03
09/10/00	<.003	0.1	<.005	<.05	0.05	<.001	<.05	49.2	<.001	<.005	<.005	0.005	0.07	2	<.005	13.6	0.24	<.002	5	<.005	2	<.01	29	<.03	<.005	4.5	<.01	0.193	0.007	0.03	<.03	0.05
JAN 2000 - DEC 2000																																
Mean	0.003	0.08	0.015	0.05	0.047	0.001	0.05	48.9	0.002	0.005	0.011	0.003	0.04	2	0.005	13.4	0.24	0.002	4	0.006	2	0.01	19	0.03	0.005	4.5	0.01	0.183	0.006	0.017	0.03	0.04
Std. Deviation	0	0.04	0.014	0	0.004	0	0	0.5	0.001	0	0.008	0.002	0.04	1	0	0.4	0	0	2	0.001	1	0	14	0	0	0.1	0	0.015	0.001	0.018	0	0.01
Minimum Value	0.003	0.05	0.005	0.05	0.044	0.001	0.05	48.5	0.001	0.005	0.005	0.002	0.01	1	0.005	13.1	0.24	0.002	2	0.005	1	0.01	9	0.03	0.005	4.4	0.01	0.172	0.005	0.005	0.03	0.03
Maximum Value	0.003	0.1	0.025	0.05	0.05	0.001	0.05	49.2	0.003	0.005	0.016	0.005	0.07	2	0.005	13.6	0.24	0.002	5	0.007	2	0.01	29	0.03	0.005	4.5	0.01	0.193	0.007	0.03	0.03	0.05
Num. Values	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

STATION: X17A, d/s CVDam & u/s of X14 across diversion (5m)

	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	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
Date	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	mg/L
31/05/00	<.003	<.05	0.052	<.05	0.057	<.001	<.05	59.7	0.005	0.005	0.018	<.002	<.01	1	<.005	18.1	0.16	<.002	3	<.005	<1	<.01	14	<.03	<.005	4.6	<.01	0.195	<.005	<.005	<.03	0.02
10/10/00	<.003	0.09	<.005	<.05	0.058	<.001	<.05	53.8	<.001	<.005	<.005	0.002	0.1	1	<.005	16.2	0.16	0.013	6	<.005	<1	<.01	36	<.03	<.005	4.7	<.01	0.191	0.008	0.035	<.03	0.04
JAN 2000 - DEC 2000																																
Mean	0.003	0.07	0.029	0.05	0.057	0.001	0.05	56.8	0.003	0.005	0.011	0.002	0.06	1	0.005	17.2	0.16	0.008	4	0.005	1	0.01	25	0.03	0.005	4.6	0.01	0.193	0.007	0.02	0.03	0.03
Std. Deviation	0	0.03	0.033	0	0.001	0	0	4.2	0.003	0	0.009	0	0.06	0	0	1.3	0	0.008	2	0	0	0	16	0	0	0.1	0	0.003	0.002	0.021	0	0.01
Minimum Value	0.003	0.05	0.005	0.05	0.057	0.001	0.05	53.8	0.001	0.005	0.005	0.002	0.01	1	0.005	16.2	0.16	0.002	3	0.005	1	0.01	14	0.03	0.005	4.6	0.01	0.191	0.005	0.005	0.03	0.02
Maximum Value	0.003	0.09	0.052	0.05	0.058	0.001	0.05	59.7	0.005	0.005	0.018	0.002	0.1	1	0.005	18.1	0.16	0.013	6	0.005	1	0.01	36	0.03	0.005	4.7	0.01	0.195	0.008	0.035	0.03	0.04
Num. Values	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

STATION: X17B,d/s CVDam & u/s of X14 across diversion (20m)

	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	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
Date	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	mg/L
31/05/00	<.003	<.05	<.005	<.05	0.056	<.001	<.05	39.6	0.001	<.005	<.005	<.002	0.04	1	<.005	11.3	0.13	<.002	4	<.005	<1	<.01	8	<.03	<.005	4	<.01	0.163	<.005	<.005	<.03	<.01
10/10/00	0.003	0.12	<.005	<.05	0.046	<.001	<.05	42.7	<.001	<.005	<.005	0.003	0.07	2	<.005	12.5	0.11	<.002	6	<.005	2	<.01	26	<.03	<.005	4.5	<.01	0.158	0.006	<.005	<.03	0.05
JAN 2000 - DEC 2000																																
Mean	0.003	0.08	0.005	0.05	0.051	0.001	0.05	41.1	0.001	0.005	0.005	0.003	0.05	2	0.005	11.9	0.12	0.002	5	0.005	2	0.01	17	0.03	0.005	4.2	0.01	0.161	0.005	0.005	0.03	0.03
Std. Deviation	0	0.05	0	0	0.007	0	0	2.2	0	0	0	0.001	0.02	1	0	0.8	0.01	0	1	0	1	0	13	0	0	0.4	0	0.004	0.001	0	0	0.03
Minimum Value	0.003	0.05	0.005	0.05	0.046	0.001	0.05	39.6	0.001	0.005	0.005	0.002	0.04	1	0.005	11.3	0.11	0.002	4	0.005	1	0.01	8	0.03	0.005	4	0.01	0.158	0.005	0.005	0.03	0.01
Maximum Value	0.003	0.12	0.005	0.05	0.056	0.001	0.05	42.7	0.001	0.005	0.005	0.003	0.07	2	0.005	12.5	0.13	0.002	6	0.005	2	0.01	26	0.03	0.005	4.5	0.01	0.163	0.006	0.005	0.03	0.05
Num. Values	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

FARO GROUND WATER QUALITY LISTING FOR 2000

STATION: X18A,N of CVDam, & right of access rd to X14 (10m)

	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	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
Date	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	mg/L
27/06/00	<.003	<.05	<.005	<.05	0.078	0.002	<.05	175.8	<.001	0.014	<.005	0.025	0.04	8	<.005	41	1.7	<.002	25	0.039	6	<.01	145	0.07	<.005	5	<.01	0.639	0.016	<.005	<.03	3.57
09/10/00	<.003	<.05	<.005	<.05	0.02	<.001	<.05	78.4	<.001	<.005	<.005	0.008	<.01	5	<.005	19.4	0.74	<.002	20	<.005	<.1	<.01	44	<.03	<.005	6	<.01	0.311	<.005	0.023	<.03	<.01
JAN 2000 - DEC 2000																																
Mean	0.003	0.05	0.005	0.05	0.049	0.002	0.05	127.1	0.001	0.01	0.005	0.017	0.02	6	0.005	30.2	1.22	0.002	22	0.022	4	0.01	94	0.05	0.005	5.5	0.01	0.475	0.011	0.014	0.03	1.79
Std. Deviation	0	0	0	0	0.041	0.001	0	68.9	0	0.006	0	0.012	0.02	2	0	15.3	0.68	0	4	0.024	4	0	71	0.03	0	0.7	0	0.232	0.008	0.013	0	2.52
Minimum Value	0.003	0.05	0.005	0.05	0.02	0.001	0.05	78.4	0.001	0.005	0.005	0.008	0.01	5	0.005	19.4	0.74	0.002	20	0.005	1	0.01	44	0.03	0.005	5	0.01	0.311	0.005	0.005	0.03	0.01
Maximum Value	0.003	0.05	0.005	0.05	0.078	0.002	0.05	175.8	0.001	0.014	0.005	0.025	0.04	8	0.005	41	1.7	0.002	25	0.039	6	0.01	145	0.07	0.005	6	0.01	0.639	0.016	0.023	0.03	3.57
Num. Values	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

STATION: X18B,N of CVDam, & right of access rd to X14 (20m)

	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	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
Date	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	mg/L
31/05/00	<.003	<.05	<.005	<.05	0.149	0.001	<.05	141	<.001	<.005	<.005	0.008	0.02	5	<.005	36.7	0.33	<.002	21	<.005	<.1	<.01	133	<.03	<.005	5.6	<.01	0.599	<.005	<.005	<.03	0.03
09/10/00	<.003	0.21	<.005	<.05	0.116	0.001	<.05	144.9	<.001	<.005	<.005	0.017	0.11	6	<.005	34.7	0.38	0.005	26	<.005	2	<.01	82	<.03	<.005	5.3	<.01	0.61	0.017	0.015	<.03	0.01
JAN 2000 - DEC 2000																																
Mean	0.003	0.13	0.005	0.05	0.133	0.001	0.05	142.9	0.001	0.005	0.005	0.013	0.06	6	0.005	35.7	0.36	0.003	24	0.005	2	0.01	108	0.03	0.005	5.5	0.01	0.604	0.011	0.01	0.03	0.02
Std. Deviation	0	0.11	0	0	0.023	0	0	2.8	0	0	0	0.006	0.06	1	0	1.4	0.04	0.002	4	0	1	0	36	0	0	0.2	0	0.008	0.008	0.007	0	0.01
Minimum Value	0.003	0.05	0.005	0.05	0.116	0.001	0.05	141	0.001	0.005	0.005	0.008	0.02	5	0.005	34.7	0.33	0.002	21	0.005	1	0.01	82	0.03	0.005	5.3	0.01	0.599	0.005	0.005	0.03	0.01
Maximum Value	0.003	0.21	0.005	0.05	0.149	0.001	0.05	144.9	0.001	0.005	0.005	0.017	0.11	6	0.005	36.7	0.38	0.005	26	0.005	2	0.01	133	0.03	0.005	5.6	0.01	0.61	0.017	0.015	0.03	0.03
Num. Values	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

STATION: X19A, d/s CVDam by X13 (12m)

	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	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
Date	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	
31/05/00	<.003	<.05	<.005	<.05	0.154	<.001	<.05	99.4	0.012	<.005	<.005	0.006	<.01	2	<.005	27.2	0.59	<.002	17	0.053	<1	<.01	79	<.03	<.005	5	<.01	0.371	<.005	<.005	<.03	0.06
09/10/00	<.003	0.15	<.005	<.05	0.088	<.001	<.05	80.7	<.001	<.005	<.005	0.006	0.1	3	<.005	22.3	0.35	<.002	16	0.014	3	<.01	51	<.03	<.005	5	<.01	0.304	0.011	0.019	<.03	<.01
JAN 2000 - DEC 2000																																
Mean	0.003	0.1	0.005	0.05	0.121	0.001	0.05	90	0.007	0.005	0.005	0.006	0.06	2	0.005	24.8	0.47	0.002	16	0.033	2	0.01	65	0.03	0.005	5	0.01	0.337	0.008	0.012	0.03	0.03
Std. Deviation	0	0.07	0	0	0.047	0	0	13.2	0.008	0	0	0	0.06	1	0	3.5	0.17	0	1	0.028	1	0	20	0	0	0	0	0.047	0.004	0.01	0	0.04
Minimum Value	0.003	0.05	0.005	0.05	0.088	0.001	0.05	80.7	0.001	0.005	0.005	0.006	0.01	2	0.005	22.3	0.35	0.002	16	0.014	1	0.01	51	0.03	0.005	5	0.01	0.304	0.005	0.005	0.03	0.01
Maximum Value	0.003	0.15	0.005	0.05	0.154	0.001	0.05	99.4	0.012	0.005	0.005	0.006	0.1	3	0.005	27.2	0.59	0.002	17	0.053	3	0.01	79	0.03	0.005	5	0.01	0.371	0.011	0.019	0.03	0.06
Num. Values	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	

STATION: X19B, d/s CVDam by X13 (27m)

	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	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
Date	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	mg/L
31/05/00	<.003	<.05	<.005	<.05	0.11	0.001	<.05	130.8	0.007	<.005	<.005	0.007	<.01	3	<.005	26.7	3.82	<.002	27	0.008	<.1	<.01	113	<.03	<.005	6.6	<.01	0.404	<.005	<.005	<.03	0.01
09/10/00	<.003	0.17	<.005	<.05	0.053	0.001	<.05	104.8	<.001	0.006	<.005	0.011	0.12	4	<.005	20.6	2.2	<.002	27	<.005	<.1	<.01	47	<.03	<.005	4.9	<.01	0.325	0.012	0.006	<.03	<.01
JAN 2000 - DEC 2000																																
Mean	0.003	0.11	0.005	0.05	0.081	0.001	0.05	117.8	0.004	0.005	0.005	0.009	0.06	4	0.005	23.7	3.01	0.002	27	0.007	1	0.01	80	0.03	0.005	5.8	0.01	0.365	0.008	0.005	0.03	0.01
Std. Deviation	0	0.08	0	0	0.04	0	0	18.4	0.004	0.001	0	0.003	0.08	1	0	4.3	1.15	0	0	0.002	0	0	47	0	0	1.2	0	0.056	0.005	0.001	0	0
Minimum Value	0.003	0.05	0.005	0.05	0.053	0.001	0.05	104.8	0.001	0.005	0.005	0.007	0.01	3	0.005	20.6	2.2	0.002	27	0.005	1	0.01	47	0.03	0.005	4.9	0.01	0.325	0.005	0.005	0.03	0.01
Maximum Value	0.003	0.17	0.005	0.05	0.11	0.001	0.05	130.8	0.007	0.006	0.005	0.011	0.12	4	0.005	26.7	3.82	0.002	27	0.008	1	0.01	113	0.03	0.005	6.6	0.01	0.404	0.012	0.006	0.03	0.01
Num. Values	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

FARO GROUND WATER QUALITY LISTING FOR 2000

STATION: X21B-96, Toe 2nd Impoundment (15.43m), P96-5B

	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	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
Date	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	mg/L
31/05/00	<.003	<.05	<.005	<.05	0.094	<.001	<.05	111.9	0.005	<.005	0.006	0.005	<.01	4	<.005	24.5	7.52	<.002	64	<.005	<1	<.01	129	<.03	<.005	6.9	<.01	0.363	<.005	<.005	<.03	<.01
10/10/00	<.003	0.22	<.005	<.05	0.053	0.001	<.05	109.4	<.001	<.005	<.005	0.013	0.14	5	<.005	23.1	5.29	<.002	68	<.005	2	<.01	53	<.03	<.005	5.9	<.01	0.366	0.013	0.013	<.03	0.02
JAN 2000 - DEC 2000																																
Mean	0.003	0.13	0.005	0.05	0.073	0.001	0.05	110.7	0.003	0.005	0.005	0.009	0.08	4	0.005	23.8	6.4	0.002	66	0.005	2	0.01	91	0.03	0.005	6.4	0.01	0.365	0.009	0.009	0.03	0.01
Std. Deviation	0	0.12	0	0	0.029	0	0	1.8	0.003	0	0.001	0.006	0.09	1	0	1	1.58	0	3	0	1	0	54	0	0	0.7	0	0.002	0.006	0.006	0	0.01
Minimum Value	0.003	0.05	0.005	0.05	0.053	0.001	0.05	109.4	0.001	0.005	0.005	0.005	0.01	4	0.005	23.1	5.29	0.002	64	0.005	1	0.01	53	0.03	0.005	5.9	0.01	0.363	0.005	0.005	0.03	0.01
Maximum Value	0.003	0.22	0.005	0.05	0.094	0.001	0.05	111.9	0.005	0.005	0.006	0.013	0.14	5	0.005	24.5	7.52	0.002	68	0.005	2	0.01	129	0.03	0.005	6.9	0.01	0.366	0.013	0.013	0.03	0.02
Num. Values	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

STATION: X21C-96, Toe 2nd Impoundment (30.18m), P96-5C

	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	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
Date	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	
31/05/00	<.003	<.05	0.012	<.05	0.087	<.001	<.05	52.4	<.001	<.005	<.005	<.002	<.01	2	<.005	8.7	1.42	<.002	3	0.006	<1	<.01	4	<.03	<.005	4.3	<.01	0.29	<.005	<.005	<.03	<.01
10/10/00	<.003	0.1	<.005	<.05	0.072	<.001	<.05	51.5	<.001	0.012	<.005	0.004	0.1	3	<.005	9.1	1.1	<.002	6	<.005	2	<.01	18	<.03	<.005	4.3	<.01	0.265	0.007	0.008	<.03	0.03
JAN 2000 - DEC 2000																																
Mean	0.003	0.08	0.008	0.05	0.079	0.001	0.05	52	0.001	0.008	0.005	0.003	0.06	2	0.005	8.9	1.26	0.002	4	0.005	2	0.01	11	0.03	0.005	4.3	0.01	0.277	0.006	0.007	0.03	0.02
Std. Deviation	0	0.04	0.005	0	0.011	0	0	0.6	0	0.005	0	0.001	0.06	1	0	0.3	0.23	0	2	0.001	1	0	10	0	0	0	0	0.018	0.001	0.002	0	0.01
Minimum Value	0.003	0.05	0.005	0.05	0.072	0.001	0.05	51.5	0.001	0.005	0.005	0.002	0.01	2	0.005	8.7	1.1	0.002	3	0.005	1	0.01	4	0.03	0.005	4.3	0.01	0.265	0.005	0.005	0.03	0.01
Maximum Value	0.003	0.1	0.012	0.05	0.087	0.001	0.05	52.4	0.001	0.012	0.005	0.004	0.1	3	0.005	9.1	1.42	0.002	6	0.006	2	0.01	18	0.03	0.005	4.3	0.01	0.29	0.007	0.008	0.03	0.03
Num. Values	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	

STATION: X24A-96, N abutment Int Dam (5.88m), P96-4A

	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	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
Date	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	mg/L
27/06/00	<.003	0.06	<.005	<.05	0.058	0.002	<.05	196.1	0.005	0.005	<.005	0.023	0.02	7	<.005	38.3	8.12	<.002	30	0.025	2	<.01	172	0.08	<.005	5.7	<.01	0.542	0.019	<.005	<.03	2.5
10/10/00	<.003	0.32	<.005	<.05	0.097	0.002	<.05	207	0.006	0.009	<.005	0.026	0.18	6	<.005	39.5	9.99	<.002	35	0.018	<1	<.01	94	<.03	<.005	6.8	<.01	0.657	0.023	<.005	<.03	0.01
JAN 2000 - DEC 2000																																
Mean	0.003	0.19	0.005	0.05	0.078	0.002	0.05	201.6	0.005	0.007	0.005	0.025	0.11	6	0.005	38.9	9.05	0.002	32	0.021	2	0.01	133	0.05	0.005	6.2	0.01	0.6	0.021	0.005	0.03	1.25
Std. Deviation	0	0.18	0	0	0.028	0	0	7.7	0.001	0.003	0	0.002	0.11	1	0	0.8	1.32	0	4	0.005	1	0	55	0.04	0	0.8	0	0.081	0.003	0	0	1.76
Minimum Value	0.003	0.06	0.005	0.05	0.058	0.002	0.05	196.1	0.005	0.005	0.005	0.023	0.02	6	0.005	38.3	8.12	0.002	30	0.018	1	0.01	94	0.03	0.005	5.7	0.01	0.542	0.019	0.005	0.03	0.01
Maximum Value	0.003	0.32	0.005	0.05	0.097	0.002	0.05	207	0.006	0.009	0.005	0.026	0.18	7	0.005	39.5	9.99	0.002	35	0.025	2	0.01	172	0.08	0.005	6.8	0.01	0.657	0.023	0.005	0.03	2.5
Num. Values	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

STATION: X24C-96, N abutment Int Dam (15.87), P96-4C

	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	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
Date	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	mg/L
25/07/00	<.003	<.05	<.005	<.05	0.093	0.003	<.05	244.4	0.01	0.034	<.005	0.029	0.24	7	0.137	49.5	7.79	<.002	42	0.049	1	<.01	263	<.03	<.005	6.6	<.01	0.809	0.025	0.021	<.03	0.41
JAN 2000 - DEC 2000																																
Mean	0.003	0.05	0.005	0.05	0.093	0.003	0.05	244.4	0.01	0.034	0.005	0.029	0.24	7	0.137	49.5	7.79	0.002	42	0.049	1	0.01	263	0.03	0.005	6.6	0.01	0.809	0.025	0.021	0.03	0.41
Std. Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Value	0.003	0.05	0.005	0.05	0.093	0.003	0.05	244.4	0.01	0.034	0.005	0.029	0.24	7	0.137	49.5	7.79	0.002	42	0.049	1	0.01	263	0.03	0.005	6.6	0.01	0.809	0.025	0.021	0.03	0.41
Maximum Value	0.003	0.05	0.005	0.05	0.093	0.003	0.05	244.4	0.01	0.034	0.005	0.029	0.24	7	0.137	49.5	7.79	0.002	42	0.049	1	0.01	263	0.03	0.005	6.6	0.01	0.809	0.025	0.021	0.03	0.41
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

FARO GROUND WATER QUALITY LISTING FOR 2000

STATION: X24D-96, N abutment Int Dam (28.22m), P96-4D

	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	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
Date	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	mg/L
27/06/00	<.003	0.16	<.005	<.05	0.076	0.003	<.05	340.1	0.002	<.005	0.029	0.032	0.1	8	<.005	63.2	15.77	<.002	48	0.086	2	<.01	307	0.03	<.005	7.2	<.01	0.93	0.031	<.005	<.03	2.84
10/10/00	<.003	0.39	<.005	0.05	0.109	0.003	<.05	327.7	0.009	<.005	<.005	0.029	0.22	8	<.005	61.6	16.21	<.002	53	0.063	3	0.01	149	<.03	<.005	8.2	<.01	0.986	0.034	<.005	<.03	<.01
JAN 2000 - DEC 2000																																
Mean	0.003	0.27	0.005	0.05	0.092	0.003	0.05	333.9	0.005	0.005	0.017	0.031	0.16	8	0.005	62.4	15.99	0.002	50	0.075	2	0.01	228	0.03	0.005	7.7	0.01	0.958	0.033	0.005	0.03	1.42
Std. Deviation	0	0.16	0	0	0.023	0	0	8.8	0.005	0	0.017	0.002	0.08	0	0	1.1	0.31	0	4	0.016	1	0	112	0	0	0.7	0	0.04	0.002	0	0	2
Minimum Value	0.003	0.16	0.005	0.05	0.076	0.003	0.05	327.7	0.002	0.005	0.005	0.029	0.1	8	0.005	61.6	15.77	0.002	48	0.063	2	0.01	149	0.03	0.005	7.2	0.01	0.93	0.031	0.005	0.03	0.01
Maximum Value	0.003	0.39	0.005	0.05	0.109	0.003	0.05	340.1	0.009	0.005	0.029	0.032	0.22	8	0.005	63.2	16.21	0.002	53	0.086	3	0.01	307	0.03	0.005	8.2	0.01	0.986	0.034	0.005	0.03	2.84
Num. Values	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

STATION: X25A-96, S abutment Int Dam (9.65m),P96-3A

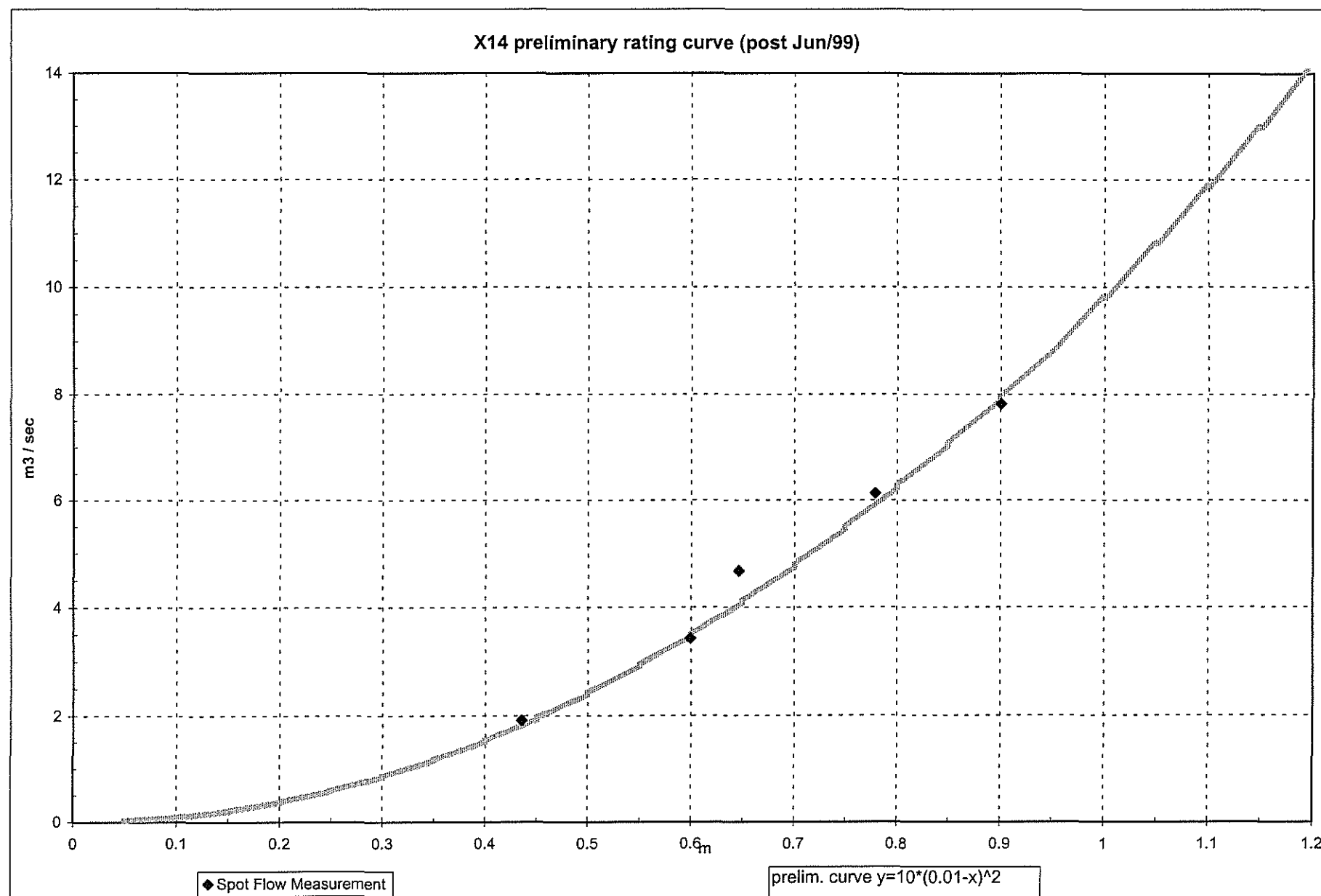
	AG-D	AL-D	AS-D	B-D	BA-D	BE-D	BI-D	CA-D	CD-D	CO-D	CR-D	CU-D	FE-D	K-D	LA-D	MG-D	MN-D	MO-D	NA-D	NI-D	P-D	PB-D	S-D	SB-D	SE-D	SI-D	SN-D	SR-D	TI-D	V-D	W-D	ZN-D
Date	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
27/06/00	<.003	<.05	<.005	<.05	0.035	0.002	<.05	130.2	0.006	<.005	<.005	0.02	<.01	5	<.005	32.3	5.61	<.002	25	0.008	<1	<.01	92	<.03	<.005	5.7	<.01	0.317	0.013	<.005	<.03	0.57
10/10/00	<.003	0.21	<.005	<.05	0.055	0.001	<.05	116.5	0.002	<.005	<.005	0.016	0.16	4	<.005	29.5	5.07	<.002	28	<.005	6	<.01	69	<.03	<.005	6.5	<.01	0.323	0.016	0.022	<.03	<.01
JAN 2000 - DEC 2000																																
Mean	0.003	0.13	0.005	0.05	0.045	0.002	0.05	123.3	0.004	0.005	0.005	0.018	0.08	4	0.005	30.9	5.34	0.002	26	0.007	4	0.01	80	0.03	0.005	6.1	0.01	0.32	0.015	0.013	0.03	0.29
Std. Deviation	0	0.11	0	0	0.014	0.001	0	9.7	0.003	0	0	0.003	0.11	1	0	2	0.38	0	2	0.002	4	0	16	0	0	0.6	0	0.004	0.002	0.012	0	0.4
Minimum Value	0.003	0.05	0.005	0.05	0.035	0.001	0.05	116.5	0.002	0.005	0.005	0.016	0.01	4	0.005	29.5	5.07	0.002	25	0.005	1	0.01	69	0.03	0.005	5.7	0.01	0.317	0.013	0.005	0.03	0.01
Maximum Value	0.003	0.21	0.005	0.05	0.055	0.002	0.05	130.2	0.006	0.005	0.005	0.02	0.16	5	0.005	32.3	5.61	0.002	28	0.008	6	0.01	92	0.03	0.005	6.5	0.01	0.323	0.016	0.022	0.03	0.57
Num. Values	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	

STATION: X25B-96, S abutment Int Dam (19.80m),P96-3B

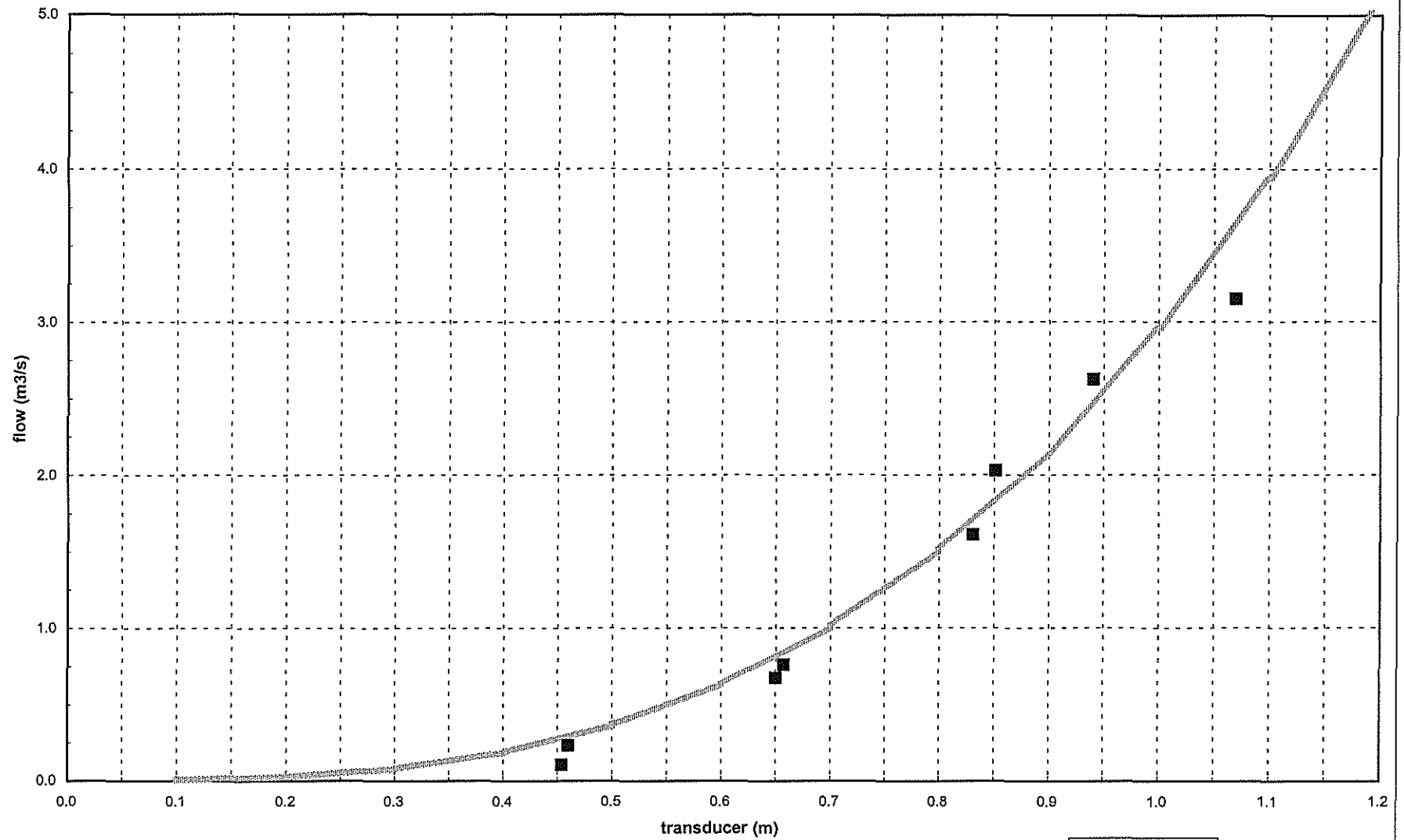
	AG-D	AL-D	AS-D	B-D	BA-D	BE-D	BI-D	CA-D	CD-D	CO-D	CR-D	CU-D	FE-D	K-D	LA-D	MG-D	MN-D	MO-D	NA-D	NI-D	P-D	PB-D	S-D	SB-D	SE-D	SI-D	SN-D	SR-D	TI-D	V-D	W-D	ZN-D
Date	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
27/06/00	<.003	<.05	<.005	<.05	0.038	0.002	<.05	155.1	<.001	<.005	0.029	0.023	<.01	6	<.005	28.7	1.77	<.002	57	<.005	6	<.01	116	0.07	<.005	4.5	<.01	0.361	0.016	<.005	<.03	0.47
10/10/00	<.003	0.2	<.005	<.05	0.059	0.001	<.05	136.7	<.001	<.005	<.005	0.018	0.16	4	<.005	25.7	1.95	<.002	58	<.005	3	<.01	59	<.03	<.005	5.5	<.01	0.38	0.019	0.02	<.03	<.01
JAN 2000 - DEC 2000																																
Mean	0.003	0.13	0.005	0.05	0.048	0.002	0.05	145.9	0.001	0.005	0.017	0.02	0.08	5	0.005	27.2	1.86	0.002	58	0.005	4	0.01	88	0.05	0.005	5	0.01	0.37	0.018	0.012	0.03	0.24
Std. Deviation	0	0.11	0	0	0.015	0.001	0	13	0	0	0.017	0.004	0.11	1	0	2.1	0.13	0	1	0	2	0	40	0.03	0	0.7	0	0.013	0.002	0.011	0	0.33
Minimum Value	0.003	0.05	0.005	0.05	0.038	0.001	0.05	136.7	0.001	0.005	0.005	0.018	0.01	4	0.005	25.7	1.77	0.002	57	0.005	3	0.01	59	0.03	0.005	4.5	0.01	0.361	0.016	0.005	0.03	0.01
Maximum Value	0.003	0.2	0.005	0.05	0.059	0.002	0.05	155.1	0.001	0.005	0.029	0.023	0.16	6	0.005	28.7	1.95	0.002	58	0.005	6	0.01	116	0.07	0.005	5.5	0.01	0.38	0.019	0.02	0.03	0.47
Num. Values	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

Appendix 3

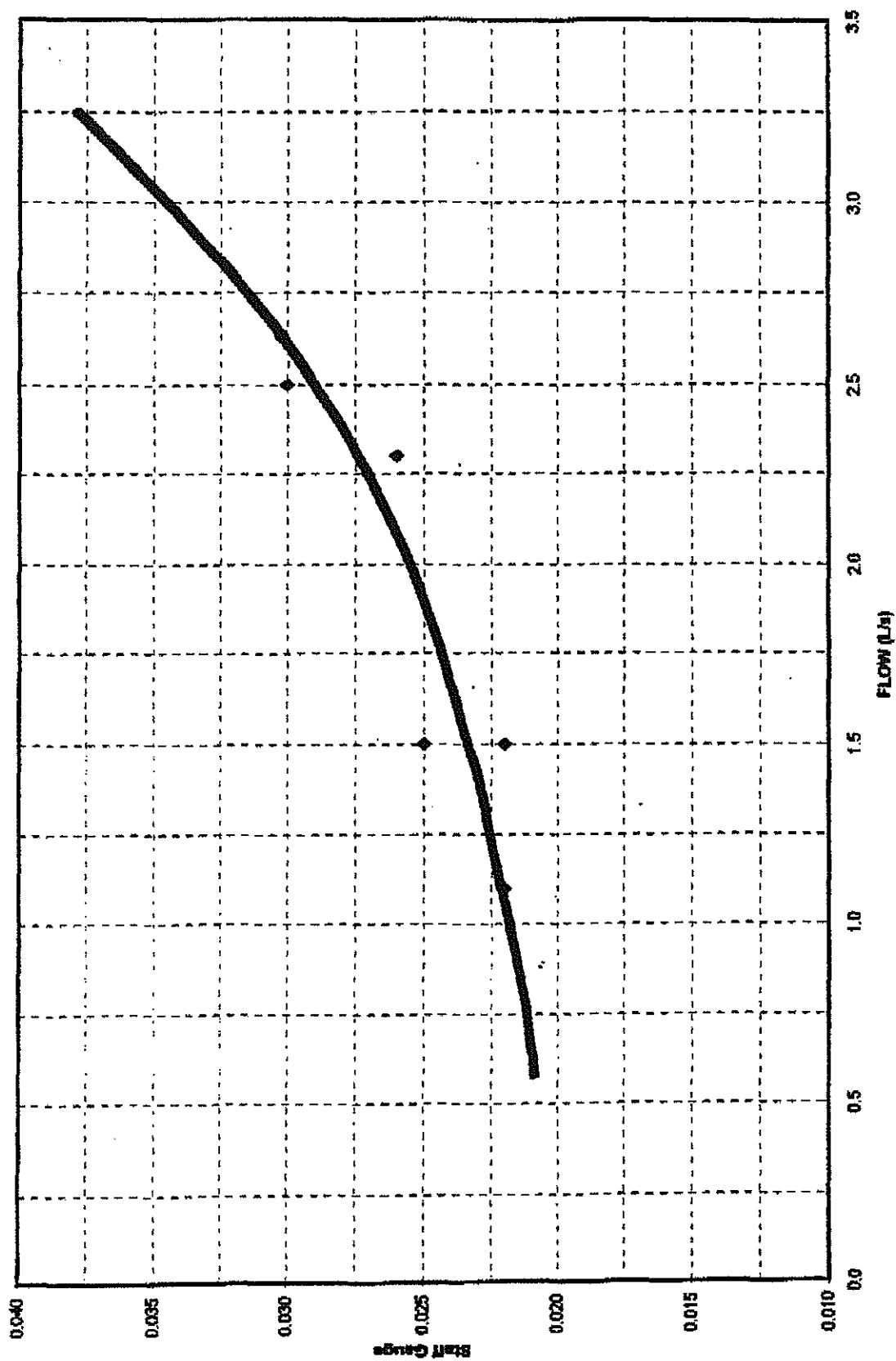
Flow Rating Curves



R7 Preliminary Stage Discharge Curve



STAGE-DISCHARGE CURVE X23
updated Dec/97



Appendix 4

2000 Bioassay Results

CAVENDISH LABORATORY LTD.
1650 Pandora Street, Vancouver, B.C. V5L 1L6
Ph: 604-251-4456 Fax: 604-258-9497
email: cavendish@portal.ca

Anvil Range Mining
Postal Bag 1000
Faro Yukon Canada
Attention: ERIC Ext-325
Project: 00/03/28

Samples: 1
Date Received: 03/04/00
Date Out: 07/04/00

Certificate of Analysis: 000403A

Sample Type: Water No prep

BIOASSAY	
SAMPLE NAME	X13
SAMPLE DATE	28 March 2000
DATE RECEIVED	3 April 2000
ANALYSIS	96 HOUR Rainbow trout TOXICITY
96 HOUR RESULTS	100% trout alive in 100% concentration. The 96 hour LC50 was greater than 100%

FROM : ANVIL RANGE MINING CORPORATION FAX NO. : 1 867 994 2602
Feb. 27 2001 08:05AM P2

to: **Army Range Training**

Postal Bag 1000

Faro Yukon Canada

Attention: Mr. Dana Haggard

San 1

Date Received: 6/6/2000

Date Out: 6/12/2000

Sample Type: Water Dissolved

SAMPLE NAME

X3

SAMPLE DATE

4 June 2000

DATE RECEIVED

6 June 2000

ANALYSIS

88 HOUR Rainwater Model TOXICITY

84 HOUR RESULTS

100% bowl alive in all concentrations. The 96 hour LC50 was greater than 100%.

File Name: auy0626AmicF.xls Water PPM = mg/L, Solids PPM = mg/Kg

Page!

CERTIFIED BY: Wade Reeves

PAGE 04

GARTNER LEE LIMITED
GARTNERLEE YUKON *** YELLOWKNIFE

2001 11:06 867-873-4453
08/03/00 18:41 FAX 403 633 6321

email: cavendsh@portal.ca

To: Vilage M
Postal Bag 1000
Faro Yukon Canada

Date Received: 6/22/00
 Date Out: 6/27/00

Attention: Mr. Dana Haggar
Project: 00/06/20

Certificate of Analysis: 000622A

Sample Type: Water Dissolved

[illegible]

CAVENDISH LABORATORIES LTD.
1650 Pandora Street, Vancouver, B.C. V5L 1L6
Ph: 604-251-4456 Fax: 604-258-9497
email: cavendsh@portal.ca

o: **Rail Mini**
Postal Bag 1000
Faro Yukon Canada
Attention: **Mr. Dana Haggar**
Project: **00/10/10**

Sample
Date Received: **10/17/00**
Date Out: **2/27/01**

Certificate of Analysis: **001017A**

Sample Type: **Water Dissolved**

BIOASSAY	
SAMPLE NAME	X-5
SAMPLE DATE	Oct 10, 2000
DATE RECEIVED	Oct 17, 2000
ANALYSIS	96 HOUR Rainbow trout TOXICITY
96 HOUR RESULTS	100% trout alive in all concentrations. The 96 hour LC50 was greater than 100%

Certificate of Analysis: **001024A**

Sample Type: Water Dissolved

BIOASSAY	
SAMPLE NAME	X13
SAMPLE DATE	OCT-22-00
DATE RECEIVED	OCT-24-00
ANALYSIS	96 HOUR Rainbow trout TOXICITY
96 HOUR RESULTS	100% trout alive in all concentrations. The 96 hour LC50 was greater than 100%

C...END...LAB...TO...TD...
1650 Pandora Street, Vancouver, B.C. V5L 1L6
Ph: 604-251-4456 Fax: 604-258-9497
email: cavendsh@portal.ca

To: I Ra Mini
Postal Bag 1000
Faro Yukon Canada
Attention: Mr. Dana Haggar
Project: 00/12/12

Sa...es:
Date Received: 12/14/00
Date Out:

Certificate of Analysis: 001214F

Sample Type: Water No prep

BIOASSAY

SAMPLE NAME	X-5
SAMPLE DATE	DEC-12-2001
DATE RECEIVED	DEC-15-2001
ANALYSIS	96 HOUR Rainbow trout TOXICITY
96 HOUR RESULTS	100% trout alive in all concentrations. The 96 hour LC50 was greater than 100%

SAMPLE NAME	X-13
SAMPLE DATE	DEC-12-2001
DATE RECEIVED	DEC-15-2001
ANALYSIS	96 HOUR Rainbow trout TOXICITY
96 HOUR RESULTS	100% trout alive in all concentrations. The 96 hour LC50 was greater than 100%

Appendix 5

*Laberge Environmental Services,
Biological Monitoring Program at Rose and Anvil
Creeks, Faro, Y.T., 2000
February 2001*

Laberge

ENVIRONMENTAL SERVICES

P.O. BOX 5111
WHITEHORSE, YT
Y1A 4S3

OFFICE PHONE (867) 668-6838
CELL PHONE (867) 668-1043
FAX (867) 667-6956

BIOLOGICAL MONITORING PROGRAM

AT

ROSE AND ANVIL CREEKS, FARO, Y.T.

2000

Submitted to:

DELOITTE & TOUCHE INC

Prepared by:

B.E. Burns

LABERGE ENVIRONMENTAL SERVICES

February 2001

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1.0 INTRODUCTION

On August 16, 1994, Anvil Range Mining Corporation (Anvil) was officially assigned Licence Number IN89-001, which was originally issued to Curragh Resources Inc, by the Yukon Territory Water Board. On December 21, 1996, mining temporarily ceased but the mill continued to operate until March 1997. In late August 1997, mining resumed with milling commencing in October. However both operations shut down in late January 1998. Low metal prices (zinc and lead) and financial difficulties experienced by Anvil indicated that this closure had the potential to be long term. An amended water licence, number QZ95-003 was issued to Anvil on January 30, 1998. In April 1998, Deloitte and Touche Inc became the receivers for the Faro Mine property, operations and assets.

To comply with Schedule B of the amended licence, a biological monitoring program is to be undertaken every two years on the Rose Creek system. The Schedule states that three replicate samples of benthic macro-invertebrate fauna are to be collected from seven sites located on Rose and Anvil Creeks. These benthic organisms are to be identified, enumerated and the data evaluated. Water samples are also to be collected.

Deloitte & Touche Inc contracted Laberge Environmental Services (LES) to conduct the biological monitoring survey and this report contains all data collected during the 2000 program.

2.0 STUDY AREA

The Faro mine and mill are located approximately 20 road kilometres north of the Town of Faro at approximately 62° 20' N and 133° 25' W (Figure 1).

The study area lies within the ecoregion Yukon Plateau - North. The mean annual temperature for this region is approximately -4°C with a summer mean of 10.5°C and a winter mean of -20°C. Northern boreal forests exist at elevations up to 1500 m asl. White and black spruce form the most common forest types with aspen and balsam poplar occupying disturbed areas. (Ecological Stratification Working Group, 1995).

The biological monitoring sites are established on Rose and Anvil Creeks at the following locations (Figure 2):

- | | |
|----|---|
| R1 | Upstream of the freshwater pumphouse and above the confluence of the North Fork of Rose Creek, and downstream of the reservoir. |
| R2 | In the mixing zone downstream of the intersection of the Rose Creek diversion canal and the outlet of the tailings pond. |
| R3 | Rose Creek approximately half way between the tailings pond outlet and Anvil Creek. |
| R4 | Rose Creek just upstream of Anvil Creek. |
| R5 | Anvil Creek downstream of Rose Creek. |
| R6 | Anvil Creek immediately upstream of Rose Creek. |
| R7 | North Fork of Rose Creek upstream of the confluence with the Faro Creek diversion. |

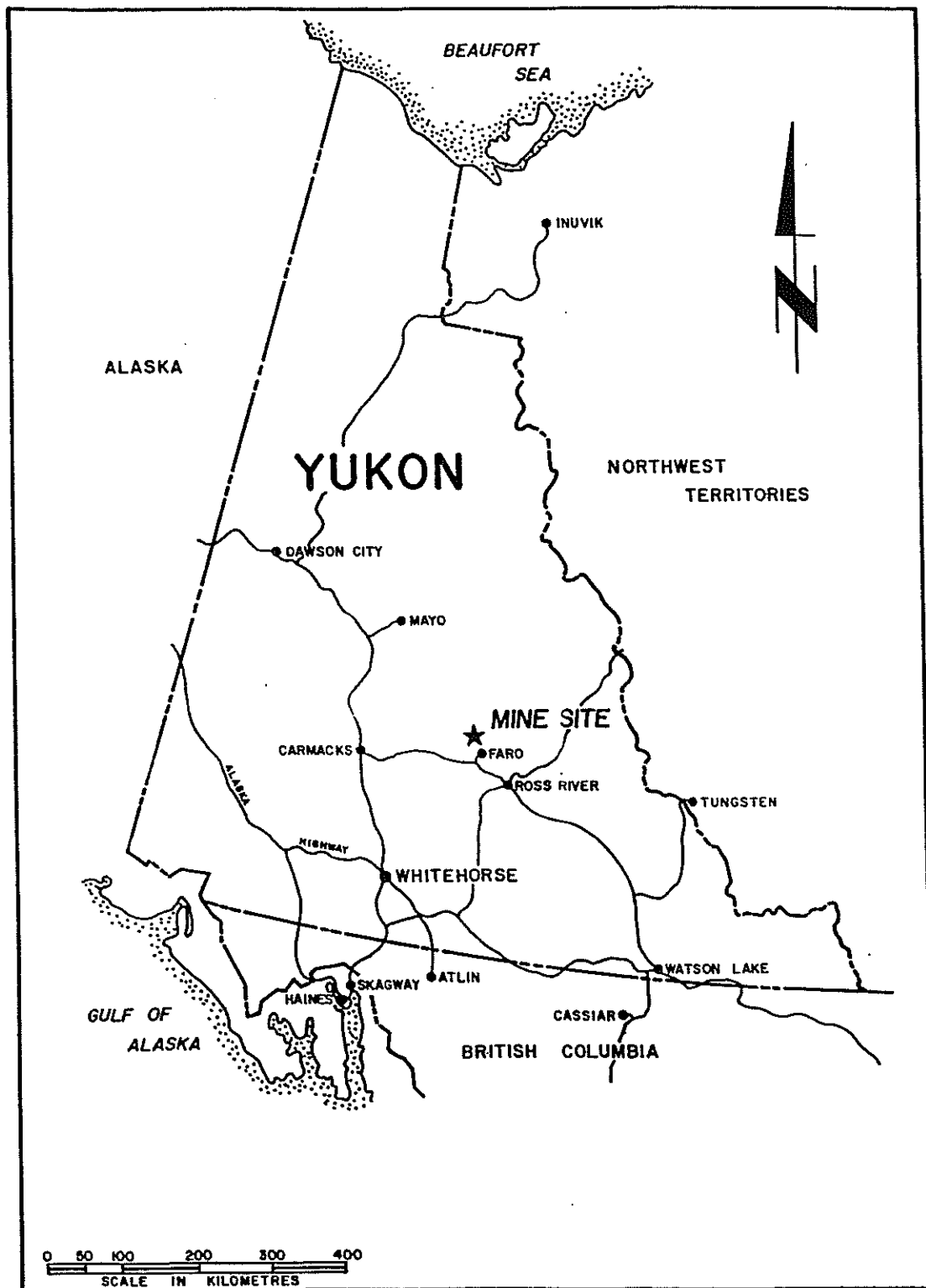
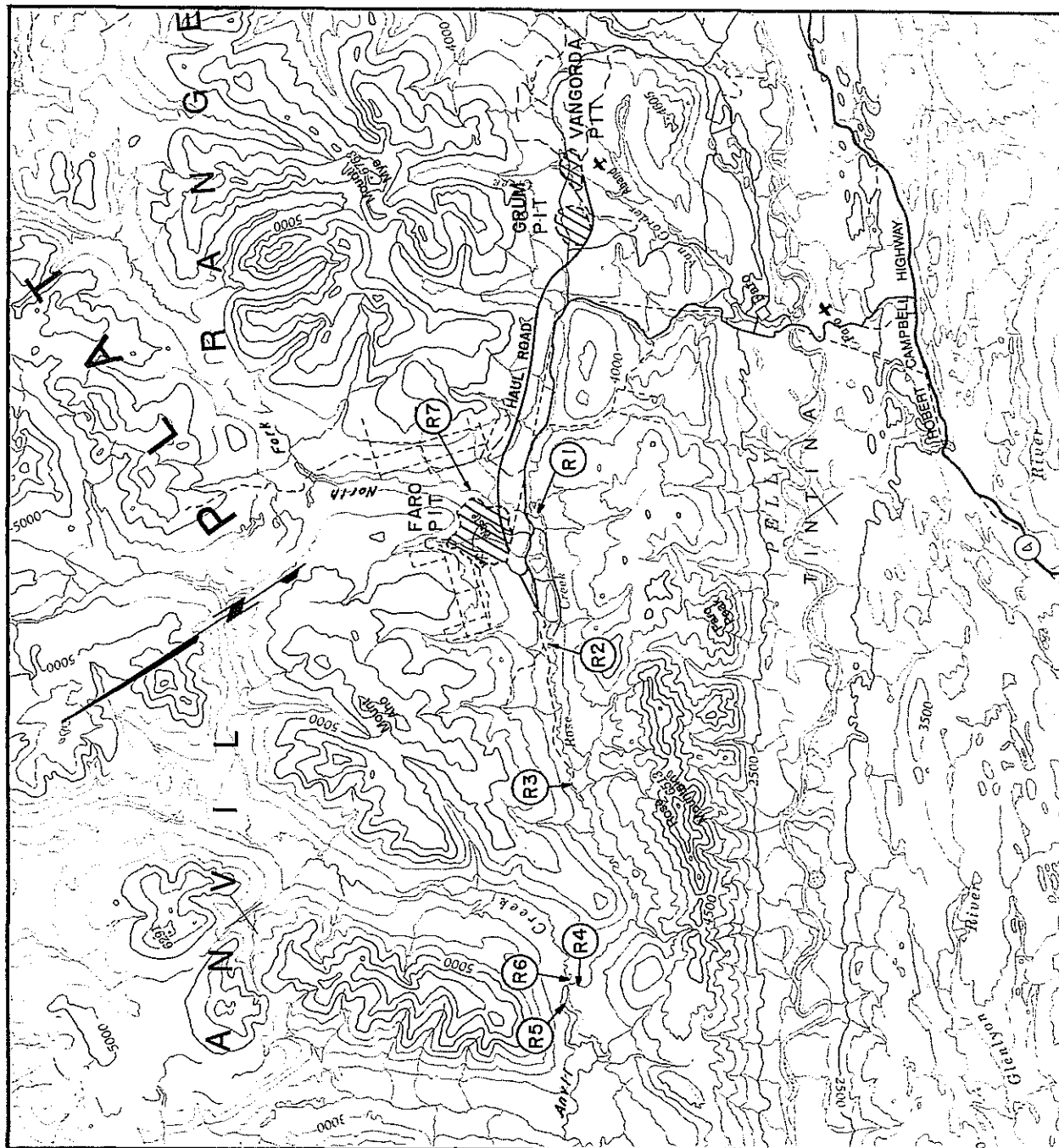


Figure 1 Location of Faro Mine



ANVIL CREEK/ROSE CREEK

FIGURE 2 - LOCATION OF SAMPLE SITES



SCALE 1 : 250,000

Sample Site

(b)

3.0 METHODS

The 2000 biological monitoring program consisted of two field surveys conducted on July 31st and August 1st, and on September 5th and 6th. Helicopter access was required for the sites situated on the lower mainstem of Rose Creek and the sites on Anvil Creek. The remaining sites were accessed by vehicle and on foot.

3.1 Water Quality

Water quality samples were collected at each site in August and September. The samples were collected in a fast flowing section of the stream upstream of the benthic sampler locations.

3.1.1 Field Measurements

In-situ measurements were taken at each site during both surveys. Conductivity and temperature were determined with an Orion conductivity meter model 126. Dissolved oxygen readings were obtained using an Orion oxygen meter model 820 and pH measurements were taken using an Accumet Portable AP5 pH meter.

3.1.2 Chemical Analyses

All sample bottles were supplied by Cavendish Laboratories of Vancouver, B.C. and were provided to LES personnel at the Faro Mine Security Office. At each site, the sample bottles were rinsed three times with the sample water prior to filling. Samples were collected in a one litre plastic bottle for sulphates, alkalinity, ammonia and nonfilterable residue. Samples to be analyzed for total metals and dissolved metals were collected in 250 ml plastic bottles. The total metals samples were preserved with nitric acid. The dissolved metals samples were left unpreserved to be filtered and treated at the lab. At sites R2, R3 and R4, samples to be analyzed for cyanide were collected in one litre bottles and preserved with sodium hydroxide. Samples were kept cool prior to shipment to the Cavendish laboratory.

3.2 Water Quantity

Discharge was measured at each of the sites, where possible, on both visits. An area with a uniform cross section was chosen and the velocity and depth were measured using a AA Price velocity meter. Ten or more readings were taken across the profile of the stream. Total discharge was calculated as the sum of these individual discharges (area x velocity).

3.3 Benthic Invertebrate Sampling

3.4.1 Field Collection

Artificial substrate samplers were used for benthic invertebrate sampling. The basket samplers were cylindrical in shape, measured 26 cm long with a diameter of 17 cm, and were constructed of galvanized wire with a 1 cm mesh. Each substrate sampler was filled with washed indigenous gravels collected from the stream bed or the bank at each sample site. The surface area provided by this 'artificial substrate' was approximately $6000 \pm 1000 \text{ cm}^2$ (Baker 1979).

Three rock filled samplers were submerged in riffle areas of the stream at each site on July 1st or August 1st, 2000. These samplers were left to colonize for five weeks. On September 5th and 6th, 2000, the artificial substrate samplers were retrieved by placing a screened bucket with a 300 micron mesh, downstream and under the basket. On shore the basket was opened in the bucket. Individual rocks were then carefully washed in the screened bucket to remove and collect all invertebrates from that sample. The detritus and benthic invertebrates remaining in the bucket were placed in a one litre nalgene bottle and preserved with 10% formalin. These samples were sent to Charles Low PhD, an entomologist in Victoria, B.C. for enumeration and identification.

3.4.2 Laboratory Analysis

All samples were washed through two screens with mesh sizes 1 millimetre and 180 microns. All of the organisms retained by the coarse screen were counted and identified, whereas the organisms on the 180 micron screen were subsampled as necessary. A Folsom plankton splitter was used for the subsampling. The split fraction that was analyzed is indicated underneath the station number in Appendix B. The majority of the benthos were identified to the genus level.

4.0 RESULTS AND DISCUSSION

Very high flows occurred during the summer of 2000. Due to high rainfalls throughout the colonization period, flows were greater in September than August, which is generally unusual. Weather records show that 116 mm of rain fell during the month of August 2000 which was 255% of normal and September rainfall was 276% of normal (Bill Miller, pers. com.). The high flows encountered produced some difficulties in collecting samples. Access to R4 is gained by wading across Anvil Creek. This was successful in August and water samples were collected and the artificial substrate samplers were installed. However in September, flows had increased substantially preventing access to R4 (see Photos 1 and 2). Subsequently no water samples could be collected nor could the benthic samplers be retrieved.

4.1 Water Quality

Water quality samples were collected at each of the sites on both visits during the summer of 2000. The analytical results are presented in Appendix A. Nine parameters (cyanide, ammonia, silver, bismuth, cadmium, chromium, selenium, tin, and tungsten) were below the method detection limit in all of the samples.

Part 3(a) of Schedule B specifically requests the analysis of total hardness, alkalinity, sulphate, suspended solids, ammonia, and total and dissolved copper, iron, lead and zinc. Part 3(b) states that total cyanide is to be analyzed at R2, R3 and R4. The results for these parameters are presented in Table 1 with discussion per parameter presented below.

4.1.1 Temperature

The temperature values reflected the diurnal and seasonal timing of the sampling, ranging from 3.2°C at R5, R6 and R7 on September 6th to 11.6°C at R2 on July 31st.

4.1.2 Conductivity and Total Hardness

Calcium and magnesium are considered to be the primary contributors to hardness but other cations such as strontium, barium, manganese, iron and aluminum also contribute to total hardness. The upstream Rose Creek sites R1 and R7 were soft and the rest of the sites medium soft to hard. Conductivity, which is a measure of the ionic constituents in water, had a similar trend to total hardness with lower values in the upstream sites and considerably higher values in the downstream sites.



Photo 1 Bank to bank streamflow at R2, September 5, 2000.



Photo 2 Gravels and rocks on the right hand side of Anvil Creek at R6 are submerged on September 6, 2000. Usually they are exposed in the summer and fall.

TABLE 1
WATER QUALITY DATA, 2000

Sample Site	R1		R2		R3		R4	R5		R6		R7	
Date, 2000	Aug 1	Sept 6	July 31	Sept 5	Aug 1	Sept 6	Aug 1	Aug 1	Sept 6	Aug 1	Sept 6	Aug 1	Sept 6
Flow, m ³ /sec	2.48	3.68	4.67	6.13	5.13		6.29	11.09		4.80		1.61	2.63
Temp °C	9.1	3.9	11.6	5.4	10.7	4.0	9.1	7.5	3.2	7.2	3.2	7.4	3.2
Conductivity (uS/cm)	132.9	147.3	340	208	330	217	315	250	257	244	261	126.8	144.8
pH (in-situ)	8.0	8.1	8.2	8.1	8.1	8.0		8.4	8.4	8.4	7.4	8.0	8.1
D.O. (mg/L)		12.8		11.6		12.4			12.9		13.2		13.0
Alkalinity mg/L as CaCO ₃	177	72	82	85	84	87	83	105	115	118	114	66	66
Sulphate	7	9	83	21	76	20	69	20	18	15	18	5	7
Ammonia	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
NFR	1	1	<1	<1	1	1	1	2	3	1	2	1	3
Total Cyanide			<0.01	<0.01	<0.01	<0.01	<0.01						
Copper - total	0.0090	0.0156	0.0059	0.0152	0.0053	0.0169	0.0073	0.0041	0.0139	0.0059	0.0167	0.0033	0.0112
- dissolved	0.0075	<0.0001	0.0045	<0.0001	0.0042	<0.0001	0.0053	0.0039	0.0015	0.0038	<0.0001	0.0031	0.0034
Iron - total	0.974	0.379	0.392	0.261	0.169	0.232	0.169	0.118	0.293	0.137	0.374	0.156	0.279
- dissolved	0.061	0.056	0.089	0.046	0.071	0.038	0.059	0.053	0.028	0.047	0.043	0.085	0.059
Lead - total	0.005	<0.001	0.003	<0.001	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
- dissolved	<0.001	<0.001	0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Zinc - total	0.0214	0.0376	0.0368	0.0223	0.0388	0.0217	0.0288	0.0070	0.0202	0.0035	0.0258	0.0090	0.0169
- dissolved	0.0168	0.0281	0.0351	0.0081	0.0341	0.0060	0.0233	0.0050	<0.0004	0.0013	<0.0004	0.0060	0.0026
Total Hardness mg/L as CaCO ₃	51	59	124	78	122	78	118	101	107	99	111	47	61

NOTES: All units in mg/L unless otherwise indicated,

4.1.3 pH and Alkalinity

All pH values were slightly alkaline ranging from 7.4 at R6 to 8.4 at R5 and R6. Alkalinity is a measure of the buffering capacity of natural waters against changes in pH relating to the carbonate system. Alkalinity values were fairly consistent throughout out. Generally sites R5 and R6 had the highest alkalinity.

4.1.4 Dissolved Oxygen

All sites were well aerated, ranging from 11.6 mg/L at R2 to 13.2 mg/L at R6.

4.1.5 Sulphate

Sulphate concentrations ranged from 5 mg/L at R7 to 83 mg/L at R2. Sulphate values decreased significantly in September at the sites on Rose Creek downstream from the tailings effluent, R2 and R3. Sulphate concentrations normally vary from 10 to 80 mg/L in surface waters (CCREM, 1987).

4.1.6 Ammonia

Ammonia was not detected at any of the sites.

4.1.7 Non Filterable Residue (NFR)

There were very low levels of non filterable residue at all of the sites on both sampling events.

4.1.8 Cyanide

Cyanide was not detected at any of the sites.

4.1.9 Total and Dissolved Metals

Copper was detected throughout with a significant increase in total copper concentrations in September. The unaffected sites R6 and R7 also experienced an increase. The CCME guideline for the protection of aquatic life for copper was exceeded at all of the sites. It should be noted that the dissolved concentrations of copper were significantly lower than the total concentrations.

Iron was detected at all sites but only exceeded the guideline in the total metals samples taken

at R1 and slightly at R2 in August.

Lead was not detected in any of the samples collected from R3, R5, R6 or R7. Lead was detected in the August samples at R1, R2 and R4 and slightly exceeded the CCME guideline.

Zinc was detected throughout and the CCME guideline was slightly exceeded at R1, R2 and R3.

The above metal concentrations have been discussed in relation to the CCME guidelines. It is important to note that the limits as set out under the Water Licence issued by the Yukon Territory Water Board apply to the discharge point and there is no obligation by Anvil to meet the CCME criteria in the receiving waters at this time. The CCME guidelines pertaining to the metals in question are presented below in Table 2.

TABLE 2 CCME RECOMMENDED GUIDELINES FOR THE PROTECTION OF AQUATIC LIFE				
HARDNESS as CaCO ₃ mg/L	COPPER mg/L	LEAD mg/L	IRON mg/L	ZINC mg/L
0 - 60 soft	0.002	0.001	0.3	0.03
60 - 120 medium soft	0.002	0.002	0.3	0.03
120 - 180 hard	0.003	0.004	0.3	0.03
>180 very hard	0.004	0.007	0.3	0.03

As some of these metal concentrations exceeded the guidelines at the background sites also (R1, R6 and R7), it is likely that these levels are a result of natural mineralization of the area. The concentrations at the affected downstream sites (R2, R3 and R4) were not much higher than the upstream site R1 and in several cases concentrations were lower.

4.2 Water Quantity

Water flow was measured where possible at each of the sites in August and September. These data are presented in Table 1 with the water quality data. Water levels were very high in August. Water levels were elevated further in September and this combined with increased velocities prevented discharge measurements to be undertaken at R3, R4, R5 and R6. Continuous water level data recorders are located at R7 and at X14 which is just upstream of R2. These recorders have been collecting data for several years.

The multi year hydrographs for Rose Creek at X14 and at R7 are enclosed as Figures 3 and 4. Stream flow variation over the period of record for these stations shows a typical pattern of peak flows occurring in early June of each year, with lesser rainfall related floods occurring during the open water season. In 2000, however, a rainfall related high water event occurred at the end of August / early September. Figures 5 and 6 highlight the 2000 hydrograph, showing that discharge at X14 reached an annual high of over 14 cubic metres per second on August 28, 2000. By comparison, the freshet flow only reached 11 cubic metres per second on June 8, 2000 at X14. The August 28, 2000 discharge was the maximum daily discharge that has been recorded at X14 according to existing data collected periodically since 1994.

A similar pattern was observed at R7, with a freshet flow of 5 cubic metres per second recorded on June 8, and a second peak of 4.6 cubic metres per second recorded on August 27, 2000.

4.3 Benthic Invertebrates

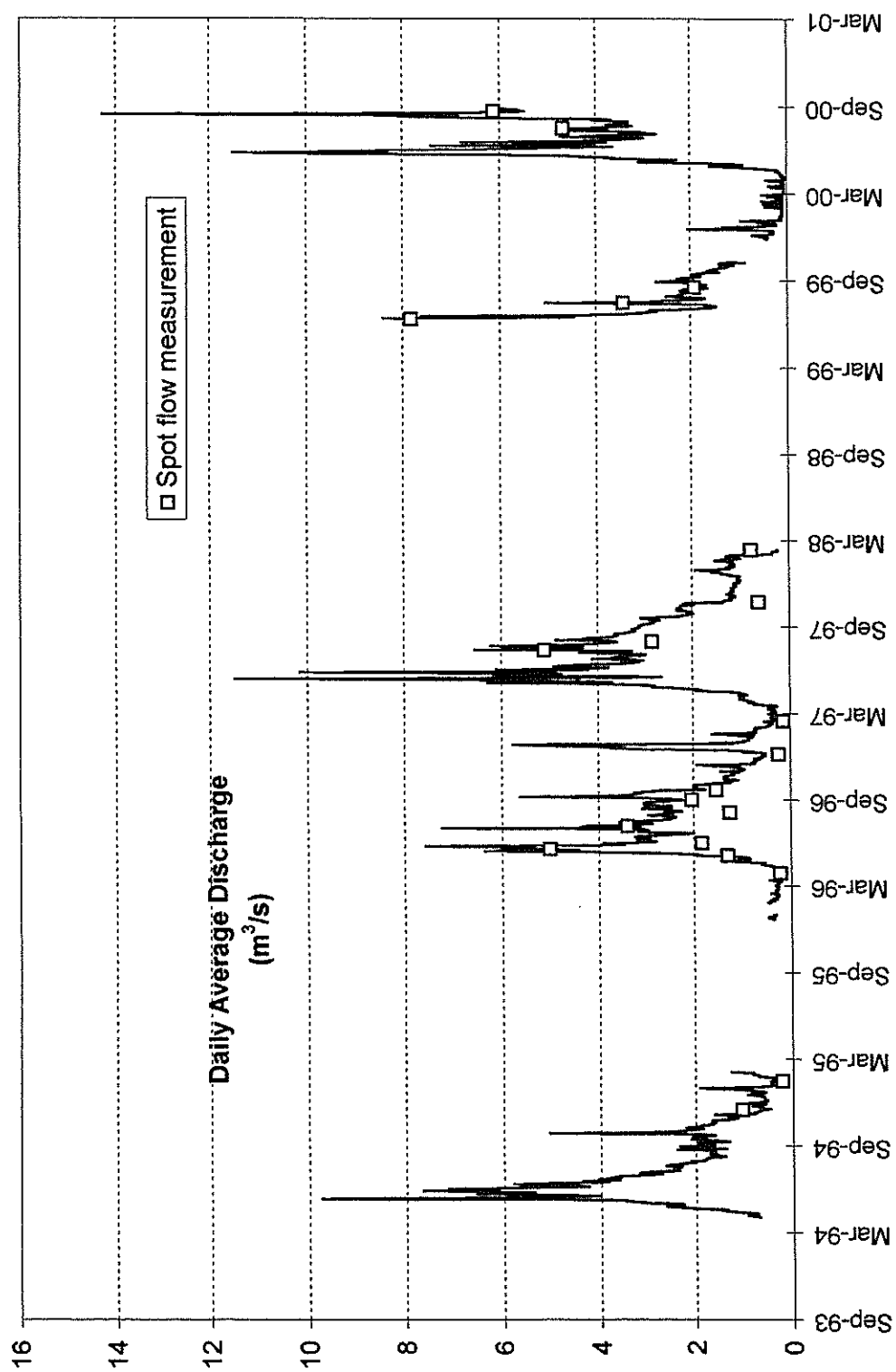
As indicated in Section 4.0, the benthic invertebrate samplers could not be retrieved from R4 due to high water, hence there are no data for this site. This late season high water event also affected the recovery of some of the benthic invertebrate artificial substrate traps in September.

Three phyla were found in Rose and Anvil Creeks; Arthropoda, Annelida and Nematoda. A total of 79 different taxonomic groups were identified within these three phyla. These data are presented in Appendix B.

4.3.1 Abundance and Taxonomic Richness

The total number of organisms for the triplicates at each site was summed to give a total abundance value for that site. Populations at most of the sites were very high, especially when compared to previous studies. The community with the highest population in 2000 occurred at R5, Anvil Creek downstream of the confluence with Rose Creek, where 66,975 individuals were collected. The background sites on Rose Creek (R1 and R7) had the lowest populations where 5,368 and 4,574 individuals were recorded respectively. It is possible that the population at R7 was actually greater than what was collected. The increased depth of water encountered on September 6, 2000 at R7 created retrieval problems. The traps had to be dragged into shallower water to enable recovery. It is suspected that a certain amount of escapement from the colonizations traps occurred during this process.

Figure 3 X-14 Streamflow Record



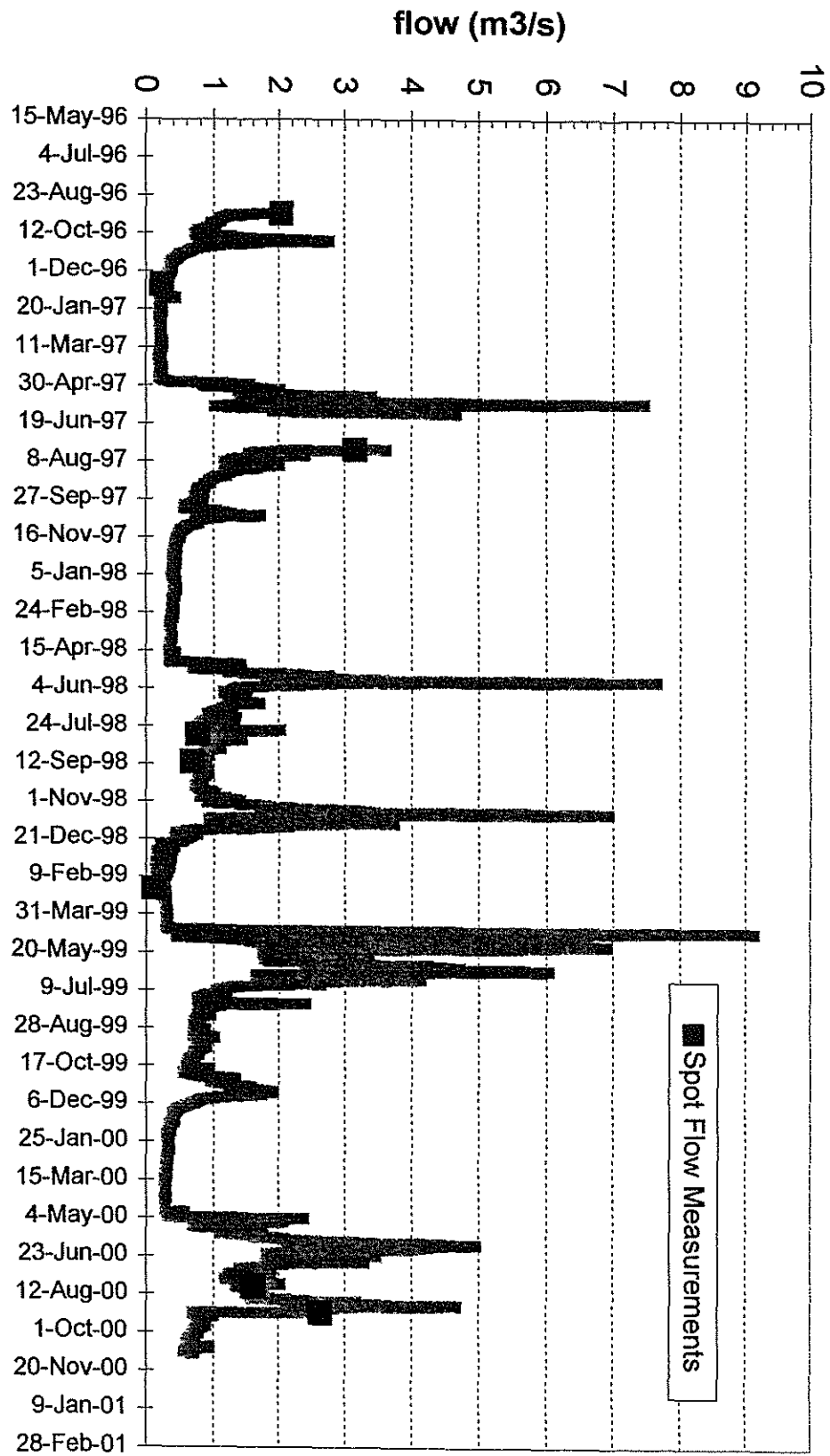
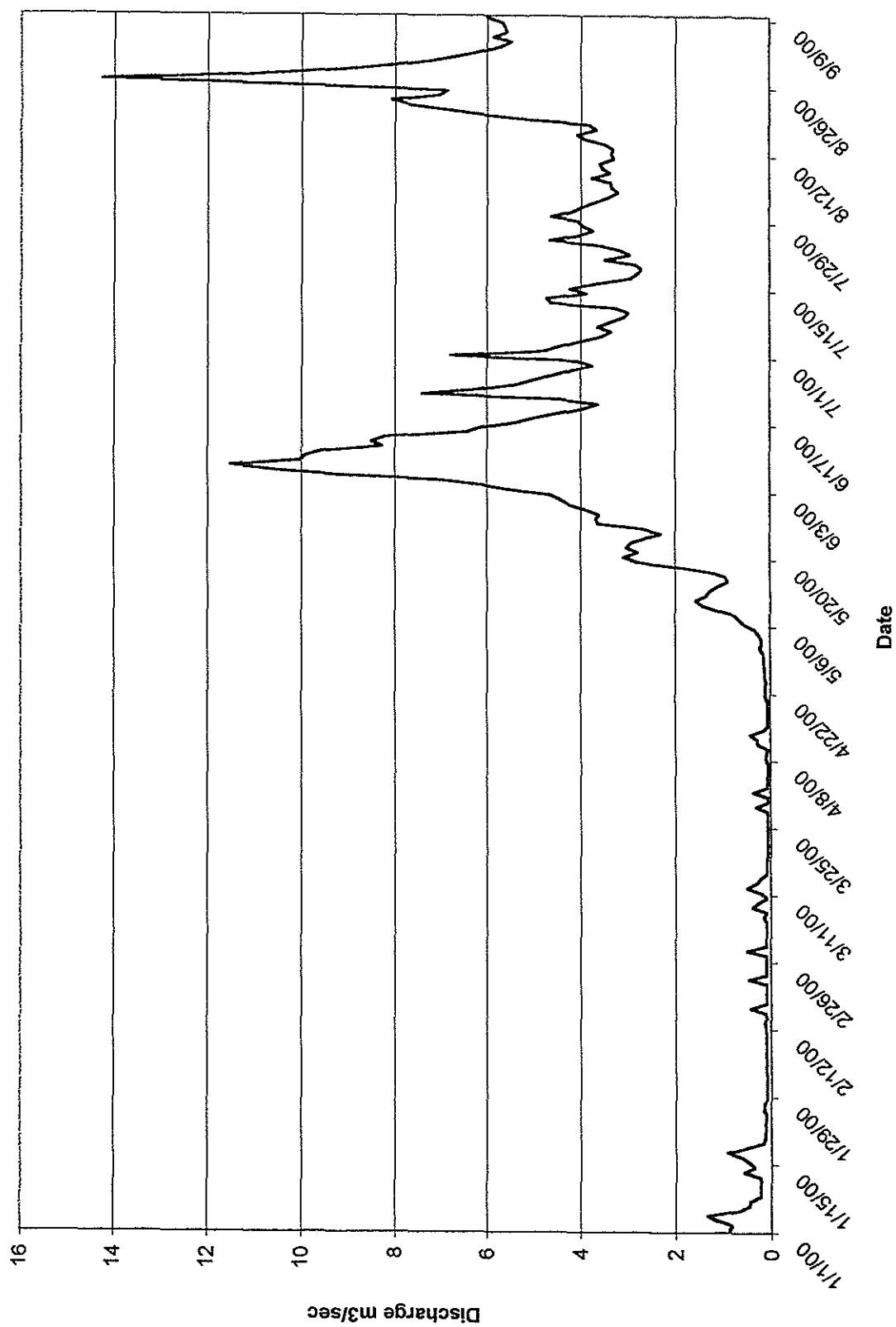


Figure 4 R7 Streamflow Record

Figure 5 Discharge for Rose Creek at X14 2000



Discharge m3/sec

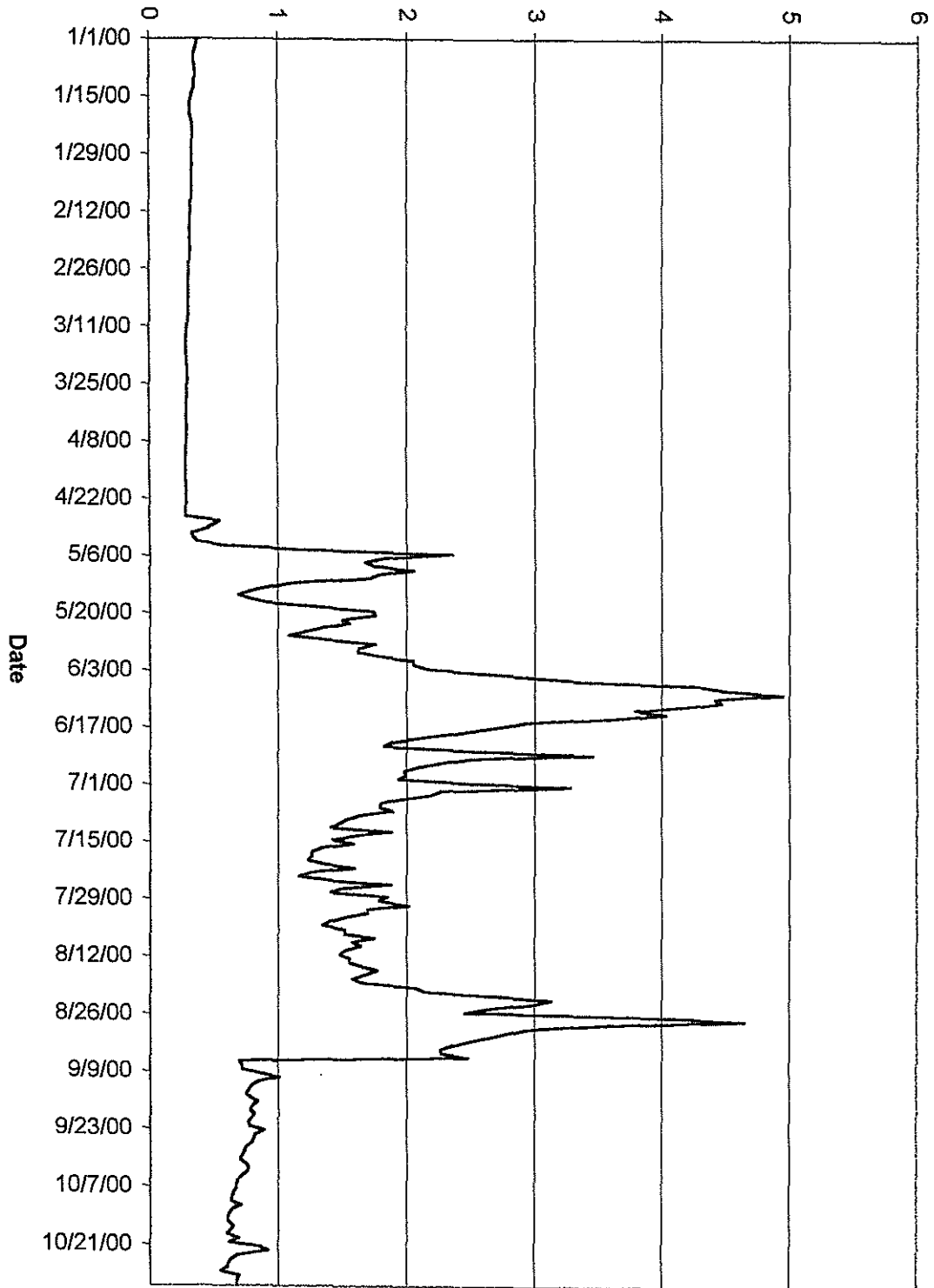


Figure 6 Discharge for Rose Creek at R7, 2000

Taxonomic richness was determined for each site by enumerating all taxonomic groups identified from species to phylum, as a measure of community diversity. The diversity ranged from a high of 57 at R1, the upstream site on the mainstem of Rose Creek, to a low of 40 at R7, the North Fork of Rose Creek.

Abundance and diversity were plotted and are displayed in Figure 7. To aid in interpretation, the stations were arranged on the X-axis to demonstrate where the tributaries, R7 and R6, enter the mainstem of Rose Creek. A distinct trend of increasing abundance is apparent as one progresses from the upstream background sites to the downstream potentially impacted sites. It is not known why populations were depressed at the background site of R1, yet so abundant downstream of the discharge point. Water quality characteristics, including nutrient loading, were very similar at all locations. Populations were also high on Anvil Creek upstream of the confluence with Rose Creek. The communities were diverse throughout the system. The very high and diverse population at R5 is indicative of a productive and healthy community.

It should be noted that mine tailings have not been deposited into the Rose Creek surface tailings impoundments since 1992. From 1992 to mine shut down in 1998, all tailings were routed to the Faro pit. Any waters entering the tailings ponds are via surface runoff, seepages from X23 and from the rocks dumps, and commencing in the fall of 1997, pre-treated water from the Faro Pit. The water at the discharge point, X5, was below the maximum allowable licensed limit of 0.50 mg/L zinc throughout 2000 with the exception of several isolated and minor exceedances (see the 2000 Annual Environmental Report for details) (E. Denholm, pers. comm.).

4.3.2 Distribution

The composition of the benthos communities was displayed as a percentage of the major taxonomic orders for each station (Table 3). Based on this, taxa were classified with respect to their dominance within the community (Table 4).

Diptera was the dominant order at R1, R2, R5, R6 and R7. Ephemeroptera was the dominant order at R3 and shared dominance at R2. It is interesting to note that the high abundance of Ephemeroptera, a chemical sensitive order of insects, occurred at the most potentially impacted sites on the Rose Creek system. Ephemeroptera was subdominant at R1, R5 and R6, and Diptera was subdominant at R3. Within these two groups, the family Chironomidae formed the majority of Dipterans and the family Baetidae formed the majority of Ephemeropterans. Not a lot is known on the specific life cycles of insects inhabiting the north. However, the family Baetidae has frequently been found in large numbers in the Rose Creek system in the past, with a record number of over 23,000 Baetidae collected at R3 in 1994. Chironomids have consistently been collected in the study area and generally have been the dominant group at the sites.

SITE	SITE DESCRIPTION	ABUNDANCE	TAXONOMIC RICHNESS
R1	Rose Creek upstream	5,368	57
R7	North Fork of Rose Creek	4,574	40
R2	Rose Creek d/s tailings ponds and diversion canal	6,611	48
R3	Rose Creek midway between R2 and R4	18,929	42
R6	Anvil Creek just u/s of Rose Creek	39,344	56
R5	Anvil Creek d/s of Rose Creek	66,975	54

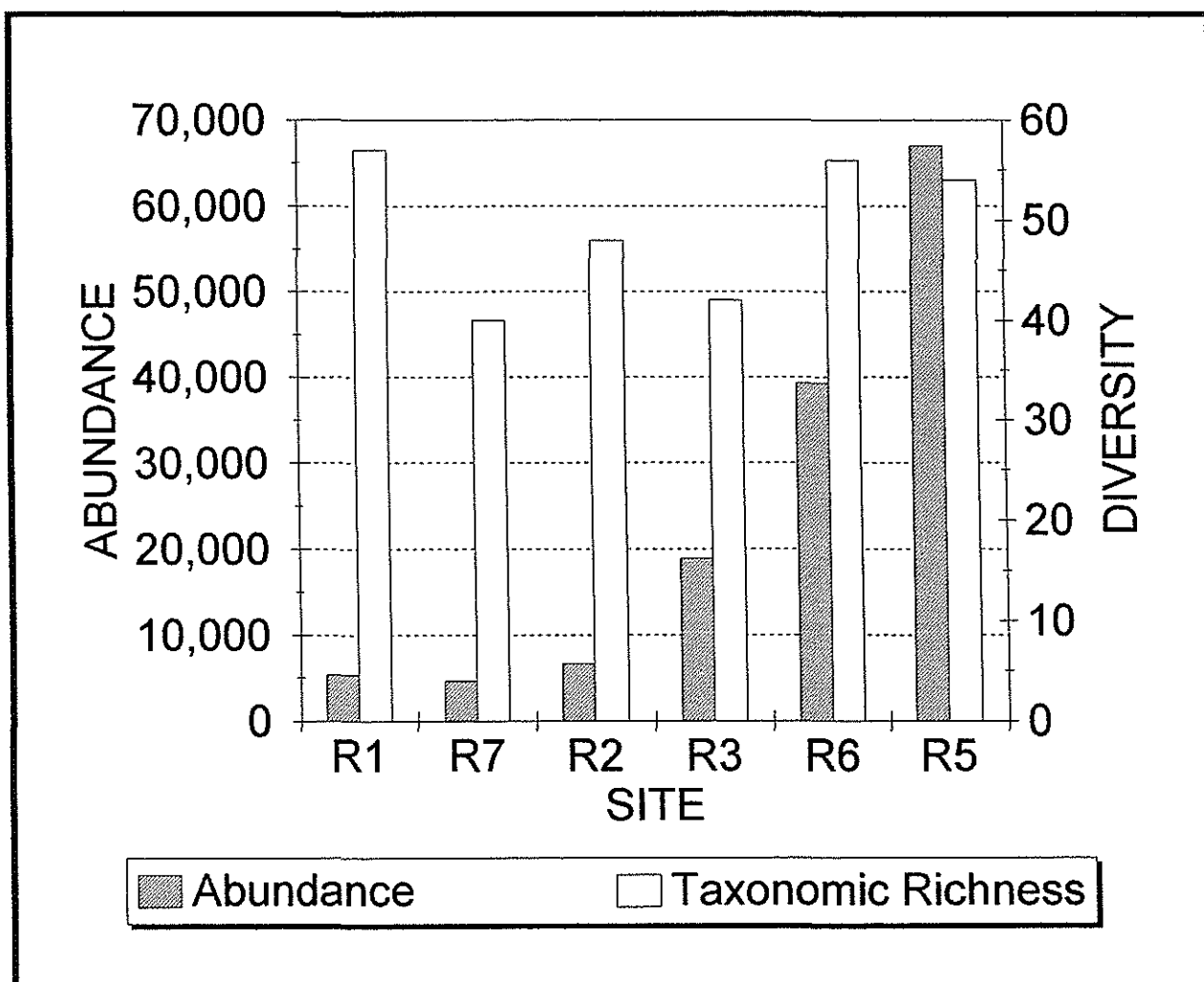


FIGURE 7 Abundance and Taxonomic Richness at Rose and Anvil Creeks, 2000

TABLE 3						
THE PERCENTAGE OF COMPOSITION OF DIFFERENT TAXONOMIC ORDERS AT EACH STATION						
TAXONOMIC ORDER	R1	R2	R3	R5	R6	R7
Ephemeroptera (mayflies)	10.0	30.2	78.8	22.7	11.2	6.0
Plecoptera (stoneflies)	3.5	7.0	2.7	7.2	8.6	8.8
Trichoptera (caddisflies)	0.8	1.0	0.4	0.7	0.7	0.6
Diptera (true flies)	83.1	54.1	15.7	62.3	72.1	79.6
Hydracarina (water mites)	0.7	7.4	0.6	2.7	2.2	3.2
Other *	1.8	0.4	1.8	4.3	5.0	1.7
* Other includes one or more of the following taxonomic groups:						
Aranaea		Copepoda		Homoptera		
Nematoda		Ostracoda		Cladocera		
Oligochaeta		Collembola				

TABLE 4				
TAXONOMIC DISTRIBUTION OF BENTHIC INVERTEBRATES				
SITE	DOMINANT (≥25%)	SUBDOMINANT (10% to 24.9%)	COMMON (1.0% to 9.9%)	RARE (0.1% to 0.9%)
R1	Diptera	Ephemeroptera	Plecoptera Other	Trichoptera Hydracarina
R2	Diptera Ephemeroptera		Hydracarina Plecoptera Trichoptera	Other
R3	Ephemeroptera	Diptera	Plecoptera Other	Hydracarina Trichoptera
R5	Diptera	Ephemeroptera	Plecoptera Other Hydracarina	Trichoptera
R6	Diptera	Ephemeroptera	Plecoptera Other Hydracarina	Trichoptera
R7	Diptera		Plecoptera Ephemeroptera Hydracarina Other	Trichoptera

There were no subdominant groups at R2 or R7. The remaining groups were typically common except for Trichoptera which was generally rare at the sites.

Overall, all communities had good representation of insect orders that are usually present in lotic waters.

The insect orders Ephemeroptera, Trichoptera and Plecoptera are sensitive to most types of pollution (Rosenberg and Resh, 1993). Lehmkuhl (1979) has identified several groups within these insect orders that have very low tolerance to chemical pollution. Ten of these taxa (five taxa within Plecoptera, three taxa within Ephemeroptera and two taxa within Trichoptera) have been identified in the Rose and Anvil Creek study area. Table 5 summarizes the presence or absence of each of these taxa per site. All of the sensitive taxa were present at sites R1, R5 and R6. Eight out of ten taxa were present at R7 and seven of the taxa were present at R2 and R3.

Although there was less variety of pollution sensitive insects at R2 and R3, their presence indicates that the benthic communities throughout the system are healthy .

4.3.3 Comparisons with Past Data

Several studies to assess the health of ecosystems have been conducted using benthic macroinvertebrates (Rosenberg and Resh, 1993). Using benthic invertebrates in biomonitoring offers many advantages for the following reasons; they are ubiquitous, they are abundant and easy to collect, there are a large number of species offering a spectrum of responses to environmental stress, they are generally sedentary and therefore are representative of local conditions, and they have long life cycles compared to other groups (i.e. periphyton). As such, benthic macroinvertebrates act as continuous monitors of the water they inhabit. Assessments are often based on taxa richness and the abundance of pollution sensitive insect orders.

The data collected in 2000 represent the greatest abundance found at most of these sites since sampling first began in 1973. Abundance in 1998 was also high, and exceeded the population numbers documented at R1 and R7 in 2000. It was speculated that populations were high in 1998 due to favourable climatic conditions. The warm temperatures experienced during the summer of 1998 may have increased algal and periphyton production, major food resources for scrapers, filtering and collector functional feeding groups, such as several genera of Ephemeroptera, Trichoptera and Chironomidae. Hatching is triggered by warm temperatures and the warm dry summer experienced in 1998 could have contributed to higher numbers of several insect species. However, the wet cool summer of 2000 also produced large numbers of aquatic organisms at most of the sites.

TABLE 5						
Presence (+) and Absence (-) of Sensitive Taxa at Rose and Anvil Creeks						
Sensitive Taxa	R1	R2	R3	R5	R6	R7
Plecoptera						
Nemouridae	+	+	-	+	+	-
Perlodidae	+	+	+	+	+	+
Capniidae	+	+	+	+	+	+
Taeniopterigidae	+	+	+	+	+	+
Chloroperlidae	+	-	+	+	+	+
Ephemeroptera						
Epeorus	+	-	+	+	+	+
Ephemerellidae	+	+	-	+	+	+
Rithrogena	+	-	-	+	+	+
Trichoptera						
Brachycentriidae	+	+	+	+	+	-
Rhyacophilidae	+	+	+	+	+	+
Total # of sensitive taxa:	10	7	7	10	10	8
After Lehmkuhl (1979)						

Over the years various agencies and companies have collected benthic data using various sampling methods at varying times of the open water season. Summaries of the past twelve years of Company (Anvil Range and Curragh Resources) monitoring data have been tabulated (Table 6). In each of these seven surveys, artificial substrate samplers were used, the same sample site locations were employed and the sampling personnel were consistent. In addition, the quality of the habitat (riparian vegetation and stream substrate) at each of these sites has changed relatively little over the past twelve years. Consequently, some temporal and spatial comparisons can appropriately be made.

Table 6 Comparison of Benthic Data over a 12 Year Period				
Site	Year	Total Abundance	Taxonomic Richness	Dominant Taxa
R1	1988	128	24	Plecoptera & Ephemeroptera
	1990	1,373	21	Diptera & Ephemeroptera
	1992	1,141	27	Diptera
	1994	5,489	60	Ephemeroptera
	1996	1,629	57	Diptera
	1998	50,808	57	Diptera & Ephemeroptera
	2000	5,368	57	Diptera
R2	1988	115	24	Diptera
	1990	4,564	20	Annelida & Diptera
	1992	400	14	Diptera
	1994	920	47	Ephemeroptera & Diptera
	1996	991	37	Diptera & Ephemeroptera
	1998	1,945	47	Diptera & Ephemeroptera
	2000	6,611	48	Diptera & Ephemeroptera
R3	1988	32	8	Diptera
	1990	2,455	20	Annelida & Diptera
	1992	321	12	Diptera
	1994	54,875	49	Ephemeroptera & Plecoptera
	1996	144	25	Diptera
	1998	13,491	39	Diptera
	2000	18,929	42	Ephemeroptera
R4	1988	116	15	Diptera
	1990	2,175	20	Diptera
	1992	312	14	Diptera
	1994	2,366	53	Ephemeroptera & Diptera
	1996	666	35	Ephemeroptera
	1998	8,148	48	Ephemeroptera & Diptera
	2000	N.D.	N.D.	N.D.
R5	1988	425	22	Diptera & Plecoptera
	1990	3,470	25	Diptera
	1992	1,263	25	Diptera & Acarina
	1994	4,115	55	Diptera
	1996	2,726	43	Diptera
	1998	7,974	44	Diptera & Ephemeroptera
	2000	66,975	54	Diptera
R6	1988	N.D.	N.D.	N.D.
	1990	3,477	25	Diptera
	1992	3,911	31	Diptera
	1994	15,431	46	Diptera & Ephemeroptera
	1996	2,741	45	Diptera
	1998	26,944	43	Diptera & Ephemeroptera
	2000	39,344	56	Diptera
R7	1988	N.D.	N.D.	N.D.
	1990	2,467	26	Diptera
	1992	1,053	22	Diptera
	1994	14,756	44	Diptera
	1996	7,029	45	Diptera
	1998	39,292	44	Diptera
	2000	4,574	40	Diptera
N.D. = not done				

The populations of the benthic communities at each of the sites fluctuated significantly over the twelve years examined, with a general trend to an increase in numbers in recent years. Figure 8 shows the log normal abundance at each site for the seven surveys examined. The populations found in the 2000 survey were generally greater than in the previous studies. The population at R5 increased dramatically in 2000 and the population at R2 was also the greatest recorded.

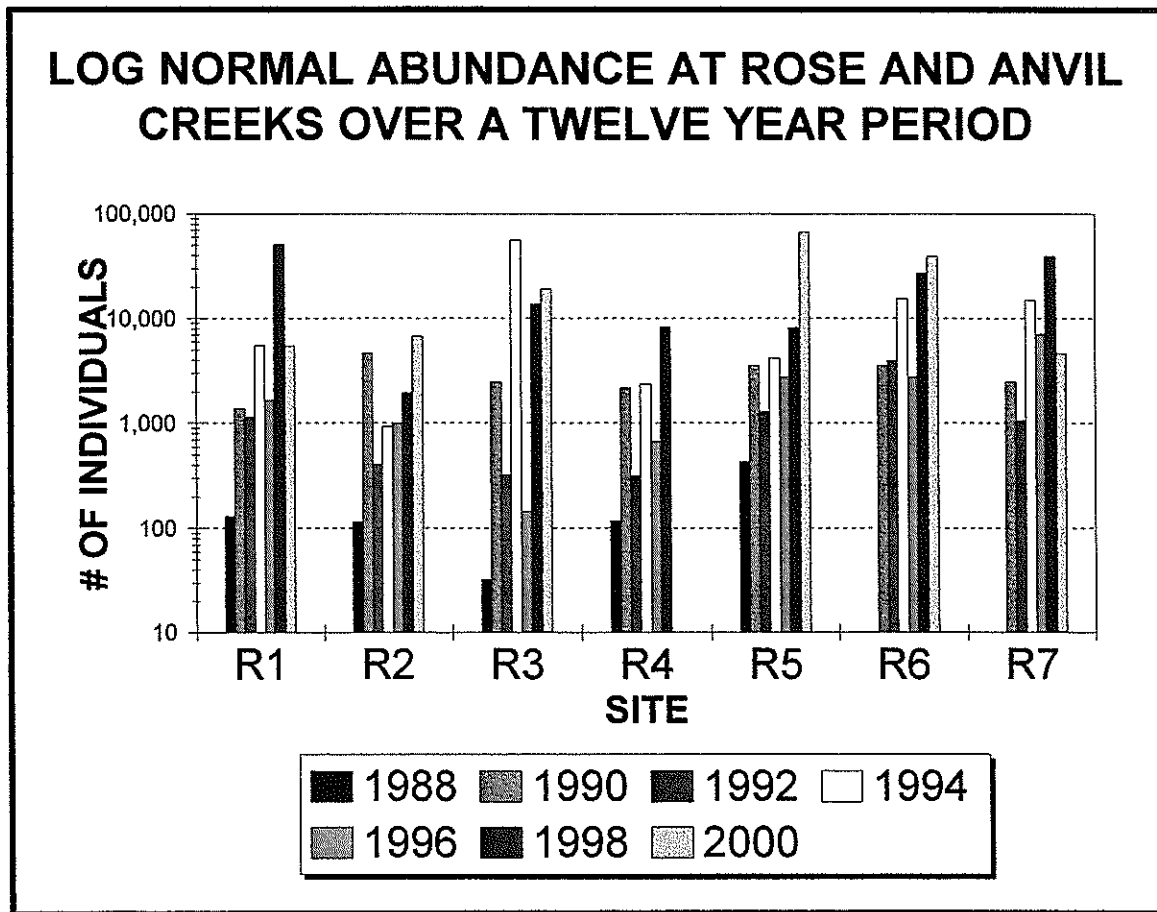


FIGURE 8 Log Normal Abundance at Rose and Anvil Creeks over a Twelve Year Period

It is apparent from Table 6 that taxonomic richness has increased significantly at all sites since 1994, indicating that communities have become more diverse and thus healthier.

Dominance has shifted between Diptera and one of the pollution sensitive orders, at most of the sites over time. R7 has always been dominated by Diptera and appears to be a stable population. Of particular note is the shift from Diptera to shared dominance with Ephemeroptera, a chemical sensitive insect order, at R2, potentially the most impacted site, from 1992 to present.

5.0 SUMMARY

Overall, the water samples collected at the sites in this study and analyzed for the selected parameters, indicated good water quality for the support of aquatic life. The waters tested were clear, slightly alkaline and well aerated. Concentrations of total and dissolved metals were generally very low where detected. Copper, iron, lead and zinc concentrations slightly exceeded the CCME guidelines at some of the sites. These increases occurred at the background sites (R1, R6 and R7) as well, indicating that the higher concentrations presumably resulted through natural conditions.

Flows were abnormally high during the study period and inhibited the collections of some of the data.

The composition of the benthic macroinvertebrate populations at all of the sites appeared healthy and diverse with good representation of pollution sensitive insects. Based on abundance, it appeared that the communities examined in 2000 were significantly more productive at the receiving sites (R2, R3 and R5) than in previous studies.

Based on data collected in 2000, and comparisons with historic data, it appears that effluent from the tailings system currently has minimal, if any, impact on the receiving environment.

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APPENDIX A

WATER QUALITY DATA, 2000

WATER QUALITY LABORATORY RESULTS FOR AUGUST 2000

Site	Alkalinity (ug/ml)	CN-total (ug/ml)	Hardness (ug/ml)	NH3-N (ug/ml)	SO4 (ug/ml)	TSS (ug/ml)
R-1	177	n/a	51	<0.05	7	1
R-2	82	<0.01	124	<0.05	83	<1
R-3	84	<0.01	122	<0.05	76	1
R-4	83	<0.01	118	<0.05	69	1
R-5	105	n/a	101	<0.05	20	2
R-6	118	n/a	99	<0.05	15	1
R-7	66	n/a	47	<0.05	5	1

DISSOLVED METALS

Site	Ag (ppm)	Al (ppm)	As (ppm)	B (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (ppm)	Cd (ppm)	Co (ppm)	Cr (ppm)	Cu (ppm)	Fe (ppm)	K (ppm)	La (ppm)	Mg (ppm)
R-1	<.0001	0.038	<.001	0.016	0.0420	<.0001	<.001	17.2	<.0001	<.0002	<.0002	0.0075	0.081	0.63	0.0011	3.902
R-2	<.0001	0.049	<.001	0.012	0.0417	0.0003	<.001	43.4	<.0001	0.0016	<.0002	0.0045	0.089	1.66	0.0012	8.980
R-3	<.0001	0.051	<.001	0.011	0.0472	0.0003	<.001	41.2	<.0001	<.0002	<.0002	0.0042	0.071	1.44	0.0012	8.431
R-4	<.0001	0.041	<.001	<.002	0.0322	0.0002	<.001	37.0	<.0001	<.0002	<.0002	0.0053	0.059	1.22	0.0013	7.803
R-5	<.0001	0.035	<.001	<.002	0.0866	0.0002	<.001	31.9	<.0001	<.0002	<.0002	0.0039	0.053	0.87	0.0023	8.300
R-6	<.0001	0.027	<.001	<.002	0.0840	0.0002	<.001	30.7	<.0001	<.0002	<.0002	0.0038	0.047	0.77	0.0024	8.275
R-7	<.0001	0.029	<.001	<.002	0.0795	<.0001	<.001	16.8	<.0001	<.0002	<.0002	0.0031	0.065	0.45	<.0002	3.207
	Mn (ppm)	Mo (ppm)	Na (ppm)	Ni (ppm)	P (ppm)	Pb (ppm)	S (ppm)	Sb (ppm)	Se (ppm)	Si (ppm)	Sn (ppm)	Sr (ppm)	Ti (ppm)	V (ppm)	W (ppm)	Zn (ppm)
R-1	0.0092	0.0019	1.84	<.0002	<.2	<.001	1.94	<.001	<.001	4.06	<.0004	0.0656	0.0020	0.0180	<.001	0.0168
R-2	0.4651	0.0021	4.97	0.0018	0.7	0.004	24.73	<.001	<.001	3.88	<.0004	0.1551	0.0044	0.0123	<.001	0.0351
R-3	0.4098	0.0041	4.76	<.0002	1.2	<.001	22.85	<.001	<.001	4.01	<.0004	0.1471	0.0037	0.0010	<.001	0.0341
R-4	0.2313	0.0010	4.13	0.0046	0.5	<.001	20.81	<.001	<.001	3.58	<.0004	0.1344	0.0029	0.0011	<.001	0.0233
R-5	0.0285	0.0033	2.02	0.0009	0.4	<.001	5.95	<.001	<.001	3.69	<.0004	0.0974	0.0021	0.0011	<.001	0.0050
R-6	0.0061	0.0023	1.73	0.0007	0.8	<.001	4.33	<.001	<.001	3.90	<.0004	0.0966	0.0014	0.0003	<.001	0.0013
R-7	0.0058	0.0028	1.66	0.0028	0.3	<.001	1.44	<.001	<.001	4.05	<.0004	0.0743	0.0006	0.0020	<.001	0.0060

TOTAL METALS

Site	Ag (ppm)	Al (ppm)	As (ppm)	B (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (ppm)	Cd (ppm)	Co (ppm)	Cr (ppm)	Cu (ppm)	Fe (ppm)	K (ppm)	La (ppm)	Mg (ppm)
R-1	<.0001	0.081	<.001	0.010	0.0520	0.0002	<.001	18.7	<.0001	<.0002	<.0002	0.0090	0.974	0.43	0.0021	3.619
R-2	<.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
R-3	<.0001	0.065	<.001	<.002	0.0369	0.0003	<.001	38.5	<.0001	0.0005	<.0002	0.0053	0.169	1.39	0.0020	7.733
R-4	<.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
R-5	<.0001	0.080	<.001	0.034	0.0631	0.0002	<.001	32.5	<.0001	<.0002	<.0002	0.0041	0.118	1.05	0.0087	8.263
R-6	<.0001	0.081	0.003	0.017	0.0640	0.0003	<.001	32.5	<.0001	<.0002	<.0002	0.0059	0.137	0.88	0.0101	8.529
R-7	<.0001	0.070	<.001	<.002	0.0511	0.0001	<.001	16.5	<.0001	<.0002	<.0002	0.0033	0.155	0.36	0.0164	3.119
	Mn (ppm)	Mo (ppm)	Na (ppm)	Ni (ppm)	P (ppm)	Pb (ppm)	S (ppm)	Sb (ppm)	Se (ppm)	Si (ppm)	Sn (ppm)	Sr (ppm)	Ti (ppm)	V (ppm)	W (ppm)	Zn (ppm)
R-1	0.0163	0.0080	1.54	0.0040	0.4	0.005	2.25	<.001	<.001	4.20	<.0004	0.0813	0.0400	0.0723	<.001	0.0214
R-2	0.4625	0.0084	4.40	0.0041	0.7	0.003	28.18	<.001	<.001	3.88	<.0004	0.1447	0.0229	0.0089	<.001	0.0388
R-3	0.4123	0.0073	4.00	0.0050	0.7	<.001	23.99	<.001	<.001	3.83	<.0004	0.1410	0.0126	0.0054	<.001	0.0388
R-4	0.2632	0.0034	4.04	0.0093	0.2	0.003	22.06	<.001	<.001	4.32	<.0004	0.1498	0.0120	0.0014	<.001	0.0288
R-5	0.0359	0.0051	1.86	0.0021	0.8	<.001	6.46	<.001	<.001	4.03	<.0004	0.1067	0.0093	0.0013	<.001	0.0070
R-6	0.0127	0.0039	1.42	0.0026	0.6	<.001	4.78	0.003	<.001	3.73	<.0004	0.0929	0.0130	0.0005	<.001	0.0035
R-7	0.0128	0.0028	1.47	0.0033	1.4	<.001	1.72	<.001	<.001	3.84	<.0004	0.0740	0.0082	0.0009	<.001	0.0090

WATER QUALITY LABORATORY RESULTS, SEPTEMBER 2000

Site	Alkalinity (ug/ml)	CN-total (ug/ml)	Hardness (ug/ml)	NH3-N (ug/ml)	SO4 (ug/ml)	TSS (ug/ml)
R-1	72	n/a	59	<0.05	9	1
R-2	85	<0.01	78	<0.05	21	<1
R-3	87	<0.01	78	<0.05	20	1
R-5	115	n/a	107	<0.05	18	3
R-6	114	n/a	111	<0.05	18	2
R-7	66	n/a	61	<0.05	7	3

DISSOLVED METALS

Site	Ag (ppm)	Al (ppm)	As (ppm)	B (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (ppm)	Cd (ppm)	Co (ppm)	Cr (ppm)	Cu (ppm)	Fe (ppm)	K (ppm)	La (ppm)	Mg (ppm)
R-1	<.0001	0.027	<.001	0.013	0.0486	0.0002	<.001	17.613	<.0001	<.0002	<.0002	<.0001	0.056	0.61	<.0002	3.547
R-2	<.0001	0.015	<.001	0.021	0.0452	0.0002	<.001	22.654	<.0001	0.0003	<.0002	<.0001	0.046	0.69	<.0002	5.162
R-3	<.0001	0.016	<.001	0.018	0.0458	0.0002	<.001	23.092	<.0001	0.0003	<.0002	<.0001	0.038	0.82	<.0002	5.043
R-5	<.0001	0.031	<.001	0.009	0.0616	0.0003	<.001	29.721	<.0001	0.0002	<.0002	0.0015	0.028	0.97	<.0002	8.094
R-6	<.0001	0.038	<.001	0.029	0.0653	0.0003	<.001	30.542	<.0001	<.0002	<.0002	<.0001	0.043	0.90	<.0002	8.510
R-7	<.0001	0.015	<.001	0.011	0.0540	0.0002	<.001	18.478	<.0001	<.0002	<.0002	0.0034	0.059	0.57	<.0002	3.686
	Mn (ppm)	Mo (ppm)	Na (ppm)	Ni (ppm)	P (ppm)	Pb (ppm)	S (ppm)	Sb (ppm)	Se (ppm)	Si (ppm)	Sn (ppm)	Sr (ppm)	Ti (ppm)	V (ppm)	W (ppm)	Zn (ppm)
R-1	0.0105	<.0001	1.87	0.0005	<.2	<.001	3.02	<.001	<.001	5.489	<.0004	0.0796	0.0079	<.0002	<.001	0.0281
R-2	0.0977	<.0001	2.23	<.0002	<.2	<.001	7.11	<.001	<.001	4.786	<.0004	0.0997	0.0081	<.0002	<.001	0.0081
R-3	0.0761	<.0001	2.33	<.0002	<.2	<.001	6.63	<.001	<.001	4.994	<.0004	0.0891	0.0067	<.0002	<.001	0.0060
R-5	0.0126	0.0005	2.01	<.0002	<.2	<.001	6.06	<.001	<.001	4.821	<.0004	0.0956	0.0061	<.0002	<.001	<.0004
R-6	0.0077	0.0004	2.10	<.0002	<.2	<.001	5.95	<.001	<.001	4.109	<.0004	0.0956	0.0068	<.0002	<.001	<.0004
R-7	0.0086	<.0001	1.86	<.0002	<.2	<.001	2.20	<.001	<.001	5.775	<.0004	0.0778	0.0084	<.0002	<.001	0.0026

TOTAL METALS

Site	Ag (ppm)	Al (ppm)	As (ppm)	B (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (ppm)	Cd (ppm)	Co (ppm)	Cr (ppm)	Cu (ppm)	Fe (ppm)	K (ppm)	La (ppm)	Mg (ppm)
R-1	<.0001	0.041	<.001	0.028	0.0545	0.0002	<.001	17.932	<.0001	0.0011	<.0002	0.0156	0.379	0.61	<.0002	3.670
R-2	<.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
R-3	<.0001	0.069	<.001	0.059	0.0500	0.0002	<.001	23.092	<.0001	0.0036	<.0002	0.0189	0.232	0.90	<.0002	4.994
R-5	<.0001	0.109	<.001	0.055	0.0827	0.0003	<.001	31.201	<.0001	0.0012	<.0002	0.0139	0.293	1.15	<.0002	8.425
R-6	<.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
R-7	<.0001	0.040	<.001	0.031	0.0565	0.0002	<.001	19.716	<.0001	0.0021	<.0002	0.0112	0.279	0.70	<.0002	3.979
	Mn (ppm)	Mo (ppm)	Na (ppm)	Ni (ppm)	P (ppm)	Pb (ppm)	S (ppm)	Sb (ppm)	Se (ppm)	Si (ppm)	Sn (ppm)	Sr (ppm)	Ti (ppm)	V (ppm)	W (ppm)	Zn (ppm)
R-1	0.0112	0.0013	2.19	0.0009	<.2	<.001	3.08	<.001	<.001	6.087	<.0004	0.0899	0.0553	<.0002	<.001	0.0376
R-2	0.1002	0.0040	2.53	<.0002	<.2	<.001	7.25	<.001	<.001	5.323	<.0004	0.1097	0.0182	<.0002	<.001	0.0223
R-3	0.0790	0.0033	2.58	<.0002	<.2	<.001	6.77	<.001	<.001	5.782	<.0004	0.1063	0.0180	<.0002	<.001	0.0217
R-5	0.0177	0.0032	2.43	0.0007	<.2	<.001	6.18	<.001	<.001	5.597	<.0004	0.1073	0.0216	<.0002	<.001	0.0202
R-6	0.0152	0.0029	2.23	0.0022	<.2	<.001	6.07	<.001	<.001	5.841	<.0004	0.1110	0.0283	<.0002	<.001	0.0258
R-7	0.0164	0.0015	2.24	<.0002	<.2	<.001	2.25	<.001	<.001	6.629	<.0004	0.0935	0.0180	<.0002	<.001	0.0169

APPENDIX B

BENTHIC INVERTEBRATE DATA, 2000

APPENDIX B

BENTHIC INVERTEBRATE DATA, 2000

	R1a	R1b 1/8	R1c	R2a 1/4	R2b	R2c 1/8	R3a 1/16	R3b 1/8	R3c 1/16
PHYLUM ARTHROPODA									
Class Insecta									
Order Ephemeroptera									
Family Siphonuridae									
Ameletus sp	1								
Family Baetidae									
Baetis sp	47	350	76	316	203	1373	5288	2608	6795
Family Heptageniidae									
Cinygmula sp	1	9		24	7	8	96	8	130
Epeorus (Iron) sp	1						2	2	1
Rhithrogena sp	2								
Family Ephemerellidae									
Drunella doddsi	1								
Drunella flavilinea									
Drunella grandis	7	7	4						
Drunella spinosa		1							
Ephemerella sp	2	16	3	24	1	36			
Seratella sp	1	6	3	1		1			
Order Plecoptera									
Plecoptera Unid J			1	1					
Family Nemouridae									
Amphinemoura sp	1								
Malenka sp	1								
Podmosta sp	1	8	2	4	2				
Zapada sp	26	69	19	120	19	83	146	34	160
Family Capniidae									
Capnia sp			1			1	36		1
Family Perlodidae									
Isoperla sp	10	6	6	92	15	47	49	27	52
Kogotus sp									
Megarcys sp								1	
Skwala curvata	1	1	1	3	5			1	1
Skwala paralella	4	1	1	17	3	12	1		1
Family Taeniopterygidae									
Taenionema sp	10	13	5	4	1	32			1
Family Chloroperlidae									
Sweltsa sp gp		1						1	
Order Trichoptera									
Trichoptera Unid P		1	1						
Trichoptera Unid L						1	32		
Family Hydropsychidae									
Arctopsyche sp	2	11	4	5	5				
Hydropsychidae J	1		3	1	4	16			
Family Brachycentridae									
Brachycentrus sp		1		5	4	1		2	1
Family Limnephilidae									
Dicosmoecus sp				1	1				
Family Glossosomatidae									
Glossosoma sp	5		5			9			
Family Rhyacophilidae									
Rhyacophilidae J			2	1	1	8	32	1	
Rhyacophila acropedes or vao	3	2	3			2			
Rhyacophila hyalinata		2		1					

Unid = unidentified

J = juvenile

P = pupae

L = larvae

A = adult

Dam = damaged

APPENDIX B

BENTHIC INVERTEBRATE DATA, 2000

	R1a	R1b 1/8	R1c	R2a 1/4	R2b	R2c 1/8	R3a 1/16	R3b 1/8	R3c 1/16
Order Colembola									
Collembola Unid dam									
Isotomurus sp									16
Order Diptera									
Diptera Unid A			1			1			1
Family Ceratopogonidae									
Bezzia sp			1				1		
Family Chironomidae									
Chironomidae A			1				1		
Chironomidae Unid L	138	731	233	464	34	658	323	112	630
Chironomidae P	8	8	3	8	3	26	2	9	
Sub Family Orthoclaadiinae									
Brillia sp	1		2						
Cardiocladius sp	42	96	64	140	30	144	1	2	22
Cricotopus sp	17	160	39	96	16	137	81	60	140
Eukiefferiella sp	30	202	25	164	12	488	102	240	396
Euryhopsis sp		9	16	4	3	64	1		
Rheotanytarsus sp	4	90		140	13	232	32	16	16
Synorthocladus sp			1	4	1		32		
Thienemanniella sp		8	1						
Sub Family Diamiesimae									
Diamesa sp	190	1509	445	100	32	322	99	161	148
Sub Family Sub Chironominae									
Micropsectra sp			1			8			
Sub Family Tanypodinae									
Thienemannimyia sp				68	2	21			
Family Empididae									
Empididae P									
Chelifera sp						1			
Family Muscidae									
Lispe sp					1	2			
Family Psychodidae									
Pericoma sp	3	21	5	8		16	5	26	36
Family Simuliidae									
Prosimulium sp L		9	1	1	6	12	1	14	1
Prosimulium sp P				1	2				
Simulium sp L	77	134	64	2	18	54	51	88	110
Simulium sp P	12	37	19		4	13			1
Family Tipulidae									
Tipulidae Unid P									
Dicranota sp		1			1		16		
Tipula sp									
Order Homoptera									
Family Aphididae	1								1
Class Arachnida									
Order Aranaea									
Order Hydracarina									
Hydracarina Unid J			1	12	10	64	32	16	16
Lebertia sp		1	2	8	1	24	17		2
Neumannia sp				4					
Sperchon sp	1		1	28	3	16	2		2

Unid = unidentified J = juvenile P = pupae L = larvae A = adult Dam = damaged

APPENDIX B

BENTHIC INVERTEBRATE DATA, 2000

	R1a	R1b 1/8	R1c	R2a 1/4	R2b	R2c 1/8	R3a 1/16	R3b 1/8	R3c 1/16
Unioncola sp	1	17	13	96	30	193	16	8	
Oribatei									
Class Crustacea									
Order Cladocera									
Bosmina longirostris							16		16
Daphnia sp		1							
Sub Class Copepoda									
Sub Order Cyclopoida									
Sub Order Harpacticoida							16		
Sub Class Ostracoda									
Candona sp									
PHYLUM ANNELIDA									
Class Oligochaeta									
Family Naididae									
Chaetogaster sp							32		16
Family Enchytraeidae	1	16	11	4		16	3		33
PHYLUM NEMATODA	3	64	2	4			64	32	86
Total per sample:	657	3622	1089	1976	494	4141	6628	3469	8832
Total per site:	5368			6611			18929		
Taxonomic Richness/sample:	37	40	39	38	35	36	33	23	30
Taxonomic Richness per site:	57			48			42		

Unid = unidentified J = juvenile P = pupae L = larvae A = adult Dam = damaged

APPENDIX B

BENTHIC INVERTEBRATE DATA, 2000

	R5a 1/32	R5b 1/64	R5c 1/64	R6b 1/32	R6a 1/32	R6c 1/32	R7a 1/2	R7b 1/2	R7c 1/8
PHYLUM ARTHROPODA									
Class Insecta									
Order Ephemeroptera									
Family Siphonuridae									
Ameletus sp									
Family Baetidae									
Baetis sp	2528	5154	6432	1528	1218	555	24	32	43
Family Heptageniidae									
Cinygmula sp	68	195	259	244	68	132	4		89
Epeorus (Iron) sp	32	65	3	2	33	32	4		
Rhithrogena sp	35	5	71	138	39	3	2		2
Family Ephemerellidae									
Drunella doddsi	14	6	3	4	32			2	8
Drunella flavilinea	2	3	2	3					1
Drunella grandis	10	37	18	29	6	8			
Drunella spinosa		1							
Ephemerella sp	72	206	8	178	162	5	2	3	56
Seratella sp	1	2		4	2	1	1		1
Order Plecoptera									
Plecoptera Unid J									
				2					
Family Nemouridae									
Amphinemoura sp									
Malenka sp									
Podmosta sp									
		1		1					
Zapada sp	810	2198	1072	1228	595	854	41	43	263
Family Capniidae									
Capnia sp	3	328	144	217	196	106	2	2	41
Family Perlodidae									
Isoperla sp									
	2	7	11	5			1		
Kogotus sp									
					2				1
Megarcys sp									
	4	2	5	3	1	3			
Skwala curvata									
	2	80	74	9	35	35			1
Skwala paralella									
	2	1		2					
Family Taeniopterygidae									
Taenionema sp									
	7	65	1	1	32	32		2	
Family Chloroperlidae									
Sweltsa sp gp									
	6	10	5	19	10	7		1	6
Order Trichoptera									
Trichoptera Unid P									
Trichoptera Unid L									
Family Hydropsychidae									
Arctopsyche sp									
	8	13	7	16	13	169	2	4	3
Hydropsychidae J									
	7	70	329	42	33				
Family Brachycentridae									
Brachycentrus sp									
	1	4	2	1	1				
Family Limnephilidae									
Dicosmoecus sp									
	1	2		3	1	3			
Family Glossosomatidae									
Glossosoma sp									
									16
Family Rhyacophilidae									
Rhyacophilidae J									
		1	1						
Rhyacophila acropedes or vao									
	1	3	3	2	5	4		2	2
Rhyacophila hyalinata									
		1							

Unid = unidentified

J = juvenile

P = pupae

L = larvae

A = adult

Dam = damaged

PPENDIX B

BENTHIC INVERTEBRATE DATA, 2000

	R5a 1/32	R5b 1/64	R5c 1/64	R6b 1/32	R6a 1/32	R6c 1/32	R7a 1/2	R7b 1/2	R7c 1/8
Order Colembola									
Collembola Unid dam				1					
Isotomurus sp									
Order Diptera									
Diptera Unid A									
Family Ceratopogonidae									
Bezzia sp		2	6	3	1				
Family Chironomidae									
Chironomidae A									
Chironomidae Unid L	1098	2320	5023	3910	532	660	90	63	1080
Chironomidae P	11	10	9	58	107	12	4	4	8
Sub Family Orthoclaadiinae									
Brillia sp									
Cardiocladius sp	277	672	382	368	522	172	20	10	122
Cricotopus sp	1355	1754	595	1495	1353	990	72	23	156
Eukiefferiella sp	3378	7880	6099	4529	3370	3846	332	222	658
Euryhapsis sp	33	2		2	32				
Rheotanytarsus sp	1797	2562	1671	1284	1443	1223	42	34	296
Synorthocladus sp							4		16
Thienemanniella sp									
Sub Family Diamiesimae									
Diamesa sp	375	1371	1054	823	426	141	54	90	208
Sub Family Sub Chironominae									
Micropsectra sp					32				9
Sub Family Tanypodinae									
Thienemannimyia sp			65				2		
Family Empididae									
Empididae P				1	1	1			
Chelifera sp		1	1	6	1	2			
Family Muscidae									
Lispe sp									
Family Psychodidae									
Pericoma sp	138	853	268	179	199	231			
Family Simuliidae									
Prosimulium sp L	3	25	7	37	1	34			
Prosimulium sp P	1	9	3	13	7	1			
Simulium sp L	101	288	146	24	90	54	5	2	12
Simulium sp P	5	6	15		19	7	3	2	
Family Tipulidae									
Tipulidae Unid P			1						
Dicranota sp	1	69	2	99	1	35			
Tipula sp					1				
Order Homoptera									
Family Aphididae						1			2
Class Arachnida									
Order Aranaea									1
Order Hydracarina									
Hydracarina Unid J	32	194	323	69	192				16
Lebertia sp	67	3	130	35			2	4	16
Neumannia sp		1							
Sperchon sp	42	15	74	121	46	3		2	27

Unid = unidentified J = juvenile P = pupae L = larvae A = adult Dam = damaged

APPENDIX B

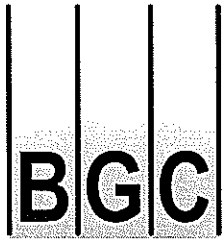
BENTHIC INVERTEBRATE DATA, 2000

	R5a 1/32	R5b 1/64	R5c 1/64	R6b 1/32	R6a 1/32	R6c 1/32	R7a 1/2	R7b 1/2	R7c 1/8
Unioncola sp	132	512	259	229	97	1	10	22	48
Oribatei			1	60					
Class Crustacea									
Order Cladocera									
Bosmina longirostris									
Daphnia sp									
Sub Class Copepoda									
Sub Order Cyclopoida							2		
Sub Order Harpacticoida		64	32	64					
Sub Class Ostracoda									
Candona sp				96				2	
PHYLUM ANNELIDA									
Class Oligochaeta									
Family Naididae									
Chaetogaster sp	64		768	608					
Family Enchytraeidae		65	4	36	65	3		2	
PHYLUM NEMATODA	384	320	1219	641	353	131		4	64
Total per sample:	12910	27458	26607	18472	11375	9497	725	579	3270
Total per site:	66975			39344			4574		
Taxonomic Richness/sample:	42	50	46	51	45	36	24	25	31
Taxonomic Richness per site:	54			56			40		

Unid = unidentified J = juvenile P = pupae L = larvae A = adult Dam = damaged

Appendix 6

BGC Engineering Inc.
Summary of Facility Status & Maintenance
Requirements
September 25, 2000



BGC ENGINEERING INC.

AN APPLIED EARTH SCIENCES COMPANY

1170, 840 – 7 Avenue SW, Calgary, Alberta, Canada. T2P 3G2

Phone (403) 250-5185 Fax (403) 250-5330

PROJECT MEMORANDUM

To:	Deloitte & Touche Inc.	Fax No.:	
	(Receiver for Anvil Range Mining Corp.)		
Attention:	Mr. Dana Haggart / Mr. Doug Sedgwick	CC:	Mr. Eric Denholm
From:	Mr. Jim Cassie, P.Eng.	Date:	Sept. 25, 2000
Subject:	Summary of Facility Status & Maintenance Recommendations		
	Geotechnical Inspection of Various Facilities at Faro Mine, Yukon		
No. of Pages (including this page):	4 Pages	Project No:	0257-001-01

1. INTRODUCTION

A geotechnical inspection was carried out from September 9 (Sat.) to 12 (Tues.), 2000 and included the following major components:

- Fresh Water Supply Dam;
- Down Valley Tailings Project;
- North Fork - Rose Creek Rock Drain;
- Certain Waste Rock Dumps (overlooking North Fork Rose Creek);
- Faro Creek Diversion (overlooking Faro Pit).

The purpose of this memo is to highlight concerns requiring maintenance attention, which were observed during this site inspection trip. Nothing of a critical nature was noted and the following comments relate to routine maintenance requirements.

2. CERTAIN WASTE ROCK DUMPS

- Inspected the toe and crest areas for the waste dumps on the west side of North Fork - Rose Creek. No apparent evidence of any recent movement, except for some small slumping in the till on the lower slopes of the "Northeast Dumps" (overlooking the Faro Creek diversion confluence with North Fork - Rose Creek).
- Some small pits have been excavated into the top of the waste dump crest, near the access road that is located at the north end of the Northeast Dumps. These pits should be backfilled to prevent localised water infiltration into the slope.

3. NORTH FORK - ROSE CREEK ROCK DRAIN

- Water appears to be flowing without trouble through the rock drain. No work required.
- Upstream pond-level monitoring and Faro Creek culvert readings should be reinstated to develop a better predictive data base for assessing performance of the rock drain. An automatic datalogger could be used to monitor the headpond levels. Additionally, a photographic record of the headpond level should be maintained.

4. DOWN VALLEY TAILINGS PROJECT

4.1 Diversion Canal

- Several small sinkholes have formed (some noted previously) in the downstream portion of the dyke crest at Sta. 0+800 and 1+900 and hence, some grading should be undertaken.
- Seepage continues to occur at the toe of the backslope, just east of the old spoil piles, situated between the Cross Valley and the Intermediate Dams.
- Remove two small sump ponds situated near the toe of the south abutment of the Intermediate Dam, which are leading to saturation of the fill at the toe of the backslope.
- Consideration should be given to repair of the old slide area, located on the canal backslope at approximately Station 2+000. Excessive surficial drainage this year may saturate the slide mass, leading to possible movement into the canal. Repair of this slide would only be practical when accessing the site from ice formed in the canal.
- Repair final weir in the Weir Section of the canal where flow is escaping around the south side of the weir.

4.2 Intermediate Dam

- Seven distinct seepage discharge points were noted. It is necessary to monitor for any seepage discharge and to ensure that the seepage water does not contain any sediment (very critical if sediment is observed).
- Place some rip rap on the inside of the small soil groin on the left side of the spillway inlet.
- Monitor the new cracking on the crest over near the north abutment.

4.3 Cross Valley Dam

- Monitor the active cracking near the upstream side of the crest, within the centre portion of the dam.
- It is necessary to excavate and clean out both the inlet and outlet end of the culvert located at the south side of the toe berm access road (previously recommended in 1995, 1996, 1997, 1998 and 1999 inspection reports).

4.4 North Valley Wall Interceptor Ditch

- Complete downhill side retention berm, up near gatehouse (work presently started).
- Add some additional fill height to the downstream side retention berm, just below the old "borrow" area.
- The ditch section located downstream from the outfall culverts is likely undersized to pass major flood events (Jim Cassie to check capacity).

5. FRESH WATER SUPPLY (FWS) DAM

- Some of cracks on the crest may be still continuing to open. Continue to monitor paint lines across cracks on the crest.
- All vegetation should be removed from the crest, making sure to minimise any disturbance to the placed fill materials.
- The low level pipe condition is still unknown and probably represents the largest liability with the FWS dam. It is understood that divers attempted to locate the upstream end this year, but were unsuccessful. The as-built plan for this pipe has been located and hence, the interior condition of this pipe should be inspected by some remote means.
- Some surficial drainage at the south abutment is being directed (using sandbags) to the downstream face, causing the area to become saturated and slightly eroded. Please redirect this drainage to the upstream side of the dam, being careful to ensure that no erosion occurs.
- Since cracking on the crest appears to be continuing, it is recommended that these crest cracks be backfilled, in order to prevent further damage from occurring. Each of the cracks should be cleaned out by hand to remove loose material, vegetation and rock fragments. Then the cracks should be backfilled with a mixture of sand (-2 mm size) and 10% (by weight) powdered bentonite (a clay mineral likely available from any drilling supply store) and lightly tamped into place. Make sure the crest slope drains properly after backfilling is completed.

6. FARO CREEK DIVERSION CHANNEL (OVER FARO PIT)

- The Faro Creek diversion channel condition has deteriorated and likely leaks excessively into the north wall of the Faro Pit. Previous movements on this pitwall were previously initiated by high groundwater levels within this wall. Hence, the downstream side of the diversion channel should be monitored for any potential pit slope movement. It may be useful to install a straight line of stakes which can be visually, even during snowfall conditions.

7. INSTRUMENTATION

- All instrumentation (whether operational or not), specifically on all dams, should be inspected for settlement around the instrumentation casing and/or standing water. If any is observed, the casing needs to be backfilled with bentonite chips in order to prevent the infiltration of any surface water along the casing. Please pile the chips up around the casing so that all surface water is directed away from the casing.

8. CONCLUSIONS

In summary, the project components are in satisfactory condition to perform their required function. The inspection of the instrumentation on the dams for settlement (and potential backfilling with bentonite) should be done before the end of September. Other maintenance items listed above should be undertaken before wintertime, if practical.

BGC Project Memorandum

To: Dana Haggar

From: Jim Cassie

Date: September 25, 2000

Subject: Annual Geotechnical Inspection, Faro Mine

Proj. No: 0257-001-1

It should also be noted that regular inspections, by appropriately trained staff, must be undertaken by site personnel, especially given the closure status of the mine. As a minimum, inspections need to be undertaken on a weekly basis. This responsibility must be delegated to an appropriate person during the shutdown period.

Given the closure status of the mine, and the potential for limited visual inspections of the facilities, consideration should be given to automating some of the instrumentation on-site. This may require the linking of instrumentation on-site with staff down in the Faro townsite so that potential precursor information can be obtained. Before this implementation program can occur, it is suggested that a qualitative risk assessment be carried out in order to identify potential failure modes and determine critical instrumentation requirements for the management of those risks.

Respectfully submitted,

BGC ENGINEERING INC.

per:

James W. Cassie, P.Eng.
Senior Geotechnical Engineer

JWC/jwc

Appendix 7

2000 Surface Seep Survey Results

ANNUAL SURFACE SEEP SURVEY - 2000

STATION: A30, Upper Pit Wall Zone MPA6 Sump

	PH-F	TEMP-C	SO4-T	TSS	FLOW RATE
Date	pH unit	deg C	mg/L	mg/L	L/s
-----	-----	-----	-----	-----	-----
3/6/00	2.69	6	578		
JAN 2000 - DEC 2000					
Mean	2.69	6	578		
Std. Deviation	0	0	0		
Minimum Value	2.69	6	578		
Maximum Value	2.69	6	578		
Num. Values	1	1	1		

STATION: FAROCR, Faro Cr u/s of confluence NFRose

	PH-F	TEMP-C	SO4-T	TSS	FLOW RATE
Date	pH unit	deg C	mg/L	mg/L	L/s
-----	-----	-----	-----	-----	-----
3/6/00	7.45	6	1	16	
12/9/00	7.02	2.6	5	3	
JAN 2000 - DEC 2000					
Mean	7.23	4.3	3	10	
Std. Deviation	0.3	2.4	3	9	
Minimum Value	7.02	2.6	1	3	
Maximum Value	7.45	6	5	16	
Num. Values	2	2	2	2	

ANNUAL SURFACE SEEP SURVEY - 2000

STATION: FCD, Faro Creek Diversion adjacent NE Waste Dumps

	PH-F	TEMP-C	SO4-T	TSS	FLOW RATE
Date	pH unit	deg C	mg/L	mg/L	L/s
-----	-----	-----	-----	-----	-----
3/6/00	6.57	6	1		
JAN 2000 - DEC 2000					
Mean	6.57	6	1		
Std. Deviation	0	0	0		
Minimum Value	6.57	6	1		
Maximum Value	6.57	6	1		
Num. Values	1	1	1		

STATION: FCO, Old Faro Creek U/S Valley Dump

	PH-F	TEMP-C	SO4-T	TSS	FLOW RATE
Date	pH unit	deg C	mg/L	mg/L	L/s
-----	-----	-----	-----	-----	-----
3/6/00	6.45	5	46		
JAN 2000 - DEC 2000					
Mean	6.45	5	46		
Std. Deviation	0	0	0		
Minimum Value	6.45	5	46		
Maximum Value	6.45	5	46		
Num. Values	1	1	1		

ANNUAL SURFACE SEEP SURVEY - 2000

STATION: FDU, Faro Creek Diversion U/S Valley Dump

	PH-F	TEMP-C	SO4-T	TSS	FLOW RATE
Date	pH unit	deg C	mg/L	mg/L	L/s
-----	-----	-----	-----	-----	-----
3/6/00	7.29	5	<1		

JAN 2000 - DEC 2000

Mean	7.29	5	1		
Std. Deviation	0	0	0		
Minimum Value	7.29	5	1		
Maximum Value	7.29	5	1		
Num. Values	1	1	1		

STATION: NE1, flow to N.Fork from NE Dumps (closer to R7)

	PH-F	TEMP-C	SO4-T	TSS	FLOW RATE
Date	pH unit	deg C	mg/L	mg/L	L/s
-----	-----	-----	-----	-----	-----
3/6/00			128	7	0.1

JAN 2000 - DEC 2000

Mean			128	7	0.1
Std. Deviation			0	0	0
Minimum Value			128	7	0.1
Maximum Value			128	7	0.1
Num. Values			1	1	1

ANNUAL SURFACE SEEP SURVEY - 2000

STATION: NE2, flow to N.Fork from NE Dumps (mid NE1&3)

	PH-F	TEMP-C	SO4-T	TSS	FLOW RATE
Date	pH unit	deg C	mg/L	mg/L	L/s
-----	-----	-----	-----	-----	-----
3/6/00	7.01	5	791	14	1.5
JAN 2000 - DEC 2000					
Mean	7.01	5	791	14	1.5
Std. Deviation	0	0	0	0	0
Minimum Value	7.01	5	791	14	1.5
Maximum Value	7.01	5	791	14	1.5
Num. Values	1	1	1	1	1

STATION: NF1, North Fork Rose Creek Site 1 u/s of Haul Road

	PH-F	TEMP-C	SO4-T	TSS	FLOW RATE
Date	pH unit	deg C	mg/L	mg/L	L/s
-----	-----	-----	-----	-----	-----
25/07/00	7.71	8.8	8	2	
JAN 2000 - DEC 2000					
Mean	7.71	8.8	8	2	
Std. Deviation	0	0	0	0	
Minimum Value	7.71	8.8	8	2	
Maximum Value	7.71	8.8	8	2	
Num. Values	1	1	1	1	

ANNUAL SURFACE SEEP SURVEY - 2000

STATION: NF2, North Fork Rose Creek Site 2 d/s of Haul Road

	PH-F	TEMP-C	SO4-T	TSS	FLOW RATE
Date	pH unit	deg C	mg/L	mg/L	L/s
-----	-----	-----	-----	-----	-----
25/07/00	7.41	7.6	10	<1	

JAN 2000 - DEC 2000

Mean	7.41	7.6	10	1	
Std. Deviation	0	0	0	0	
Minimum Value	7.41	7.6	10	1	
Maximum Value	7.41	7.6	10	1	
Num. Values	1	1	1	1	

STATION: SP5-6, Ditch to Main pit from NE Dumps

	PH-F	TEMP-C	SO4-T	TSS	FLOW RATE
Date	pH unit	deg C	mg/L	mg/L	L/s
-----	-----	-----	-----	-----	-----
3/6/00	7.49	9	973		0.05

JAN 2000 - DEC 2000

Mean	7.49	9	973		0.05
Std. Deviation	0	0	0		0
Minimum Value	7.49	9	973		0.05
Maximum Value	7.49	9	973		0.05
Num. Values	1	1	1		1

ANNUAL SURFACE SEEP SURVEY - 2000

STATION: W10, Upper Guardhouse Ck u/s of NW Dump

	PH-F	TEMP-C	SO4-T	TSS	FLOW RATE
Date	pH unit	deg C	mg/L	mg/L	L/s
-----	-----	-----	-----	-----	-----
3/6/00	7.95	4	3		

JAN 2000 - DEC 2000

Mean	7.95	4	3
Std. Deviation	0	0	0
Minimum Value	7.95	4	3
Maximum Value	7.95	4	3
Num. Values	1	1	1

STATION: W8, Upper Guardhouse Creek d/s of NW Dump

	PH-F	TEMP-C	SO4-T	TSS	FLOW RATE
Date	pH unit	deg C	mg/L	mg/L	L/s
-----	-----	-----	-----	-----	-----
3/6/00	7.18	6	4		

JAN 2000 - DEC 2000

Mean	7.18	6	4
Std. Deviation	0	0	0
Minimum Value	7.18	6	4
Maximum Value	7.18	6	4
Num. Values	1	1	1

ANNUAL SURFACE SEEP SURVEY - 2000

STATION: X7, Old Faro Creek Channel at mine access road

	PH-F	TEMP-C	SO4-T	TSS	FLOW RATE
Date	pH unit	deg C	mg/L	mg/L	L/s
-----	-----	-----	-----	-----	-----
25/07/00	5.85	6.3	4289	19	
JAN 2000 - DEC 2000					
Mean	5.85	6.3	4289	19	
Std. Deviation	0	0	0	0	
Minimum Value	5.85	6.3	4289	19	
Maximum Value	5.85	6.3	4289	19	
Num. Values	1	1	1	1	

ANNUAL SURFACE SEEP SURVEY - 2000

STATION: A30, Upper Pit Wall Zone MPA6 Sump

	AG-T	AL-T	AS-T	B-T	BA-T	BE-T	BI-T	CA-T	CD-T	CO-T	CR-T	CU-T	FE-T	K-T	MG-T	MN-T	MO-T	NA-T	NI-T	P-T	PB-T	S-T	SB-T	SE-T	SI-T	SN-T	SR-T	TI-T	V-T	W-T	ZN-T
Date	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
3/6/00	<.003	9.19	0.065	<.05	0.126	0.004	<.05	41.7	0.176	0.193	0.008	1.127	9.27	3	70.9	4.95	0.132	3	0.159	9	0.58		0.31	<.005	6.3	<.01	0.275	0.022	<.005	<.03	79.68
JAN 2000 - DEC 2000																															
Mean	0.003	9.19	0.065	0.05	0.126	0.004	0.05	41.7	0.176	0.193	0.008	1.127	9.27	3	70.9	4.95	0.132	3	0.159	9	0.58		0.31	0.005	6.3	0.01	0.275	0.022	0.005	0.03	79.68
Std. Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Minimum Value	0.003	9.19	0.065	0.05	0.126	0.004	0.05	41.7	0.176	0.193	0.008	1.127	9.27	3	70.9	4.95	0.132	3	0.159	9	0.58		0.31	0.005	6.3	0.01	0.275	0.022	0.005	0.03	79.68
Maximum Value	0.003	9.19	0.065	0.05	0.126	0.004	0.05	41.7	0.176	0.193	0.008	1.127	9.27	3	70.9	4.95	0.132	3	0.159	9	0.58		0.31	0.005	6.3	0.01	0.275	0.022	0.005	0.03	79.68
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1

	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	K-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
Date	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
3/6/00	<.003	7.16	<.005	<.05	0.52	0.003	<.05	36.3	0.159	0.164	0.006	0.915	1.72	3	63.9	4.35	0.137	3	0.139	9	0.37	193	0.27	<.005	5.5	<.01	0.318	<.005	<.005	<.03	59.58
JAN 2000 - DEC 2000																															
Mean	0.003	7.16	0.005	0.05	0.52	0.003	0.05	36.3	0.159	0.164	0.006	0.915	1.72	3	63.9	4.35	0.137	3	0.139	9	0.37	193	0.27	0.005	5.5	0.01	0.318	0.005	0.005	0.03	59.58
Std. Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Value	0.003	7.16	0.005	0.05	0.52	0.003	0.05	36.3	0.159	0.164	0.006	0.915	1.72	3	63.9	4.35	0.137	3	0.139	9	0.37	193	0.27	0.005	5.5	0.01	0.318	0.005	0.005	0.03	59.58
Maximum Value	0.003	7.16	0.005	0.05	0.52	0.003	0.05	36.3	0.159	0.164	0.006	0.915	1.72	3	63.9	4.35	0.137	3	0.139	9	0.37	193	0.27	0.005	5.5	0.01	0.318	0.005	0.005	0.03	59.58
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

STATION: FAROCR, Faro Cr u/s of confluence NFRose

	AG-T	AL-T	AS-T	B-T	BA-T	BE-T	BI-T	CA-T	CD-T	CO-T	CR-T	CU-T	FE-T	K-T	MG-T	MN-T	MO-T	NA-T	NI-T	P-T	PB-T	S-T	SB-T	SE-T	SI-T	SN-T	SR-T	TI-T	V-T	W-T	ZN-T
Date	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
3/6/00	<.003	0.66	<.005	<.05	0.083	<.001	<.05	3.3	<.001	<.005	0.037	<.002	0.83	2	0.9	0.01	<.002	<1	0.007	<1	0.03		<.03	<.005	3.8	<.01	0.043	0.038	<.005	<.03	0.08
JAN 2000 - DEC 2000																															
Mean	0.003	0.66	0.005	0.05	0.083	0.001	0.05	3.3	0.001	0.005	0.037	0.002	0.83	2	0.9	0.01	0.002	1	0.007	1	0.03		0.03	0.005	3.8	0.01	0.043	0.038	0.005	0.03	0.08
Std. Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Value	0.003	0.66	0.005	0.05	0.083	0.001	0.05	3.3	0.001	0.005	0.037	0.002	0.83	2	0.9	0.01	0.002	1	0.007	1	0.03		0.03	0.005	3.8	0.01	0.043	0.038	0.005	0.03	0.08
Maximum Value	0.003	0.66	0.005	0.05	0.083	0.001	0.05	3.3	0.001	0.005	0.037	0.002	0.83	2	0.9	0.01	0.002	1	0.007	1	0.03		0.03	0.005	3.8	0.01	0.043	0.038	0.005	0.03	0.08
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

	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	K-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
Date	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
3/6/00	<.003	0.07	<.005	<.05	0.003	<.001	<.05	2	<.001	<.005	<.005	<.002	0.14	1	0.4	<.01	<.002	1	<.005	3	<.01	<1	<.03	<.005	2.9	<.01	0.024	<.005	<.005	<.03	<.01
JAN 2000 - DEC 2000																															
Mean	0.003	0.07	0.005	0.05	0.003	0.001	0.05	2	0.001	0.005	0.005	0.002	0.14	1	0.4	0.01	0.002	1	0.005	3	0.01	1	0.03	0.005	2.9	0.01	0.024	0.005	0.005	0.03	0.01
Std. Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Value	0.003	0.07	0.005	0.05	0.003	0.001	0.05	2	0.001	0.005	0.005	0.002	0.14	1	0.4	0.01	0.002	1	0.005	3	0.01	1	0.03	0.005	2.9	0.01	0.024	0.005	0.005	0.03	0.01
Maximum Value	0.003	0.07	0.005	0.05	0.003	0.001	0.05	2	0.001	0.005	0.005	0.002	0.14	1	0.4	0.01	0.002	1	0.005	3	0.01	1	0.03	0.005	2.9	0.01	0.024	0.005	0.005	0.03	0.01
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

ANNUAL SURFACE SEEP SURVEY - 2000

STATION: FCD, Faro Creek Diversion adjacent NE Waste Dumps

	AG-T	AL-T	AS-T	B-T	BA-T	BE-T	BI-T	CA-T	CD-T	CO-T	CR-T	CU-T	FE-T	K-T	MG-T	MN-T	MO-T	NA-T	NI-T	P-T	PB-T	S-T	SB-T	SE-T	SI-T	SN-T	SR-T	TI-T	V-T	W-T	ZN-T	
Date	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	
3/6/00	<.003	0.53	<.005	<.05	0.082	<.001	<.05	2.6	<.001	<.005	0.033	<.002	0.72	2	0.7	0.01	0.013	<1	<.005	<1	0.07		<.03	<.005	3.7	<.01	0.042	0.03	<.005	<.03	0.04	
JAN 2000 - DEC 2000																																
Mean	0.003	0.53	0.005	0.05	0.082	0.001	0.05	2.6	0.001	0.005	0.033	0.002	0.72	2	0.7	0.01	0.013	1	0.005	1	0.07		0.03	0.005	3.7	0.01	0.042	0.03	0.005	0.03	0.04	
Std. Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	
Minimum Value	0.003	0.53	0.005	0.05	0.082	0.001	0.05	2.6	0.001	0.005	0.033	0.002	0.72	2	0.7	0.01	0.013	1	0.005	1	0.07		0.03	0.005	3.7	0.01	0.042	0.03	0.005	0.03	0.04	
Maximum Value	0.003	0.53	0.005	0.05	0.082	0.001	0.05	2.6	0.001	0.005	0.033	0.002	0.72	2	0.7	0.01	0.013	1	0.005	1	0.07		0.03	0.005	3.7	0.01	0.042	0.03	0.005	0.03	0.04	
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	
	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	K-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	
Date	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	
3/6/00	<.003	<.05	<.005	<.05	<.002	<.001	<.05	1.6	<.001	<.005	<.005	<.002	0.1	1	0.3	<.01	<.002	1	<.005	<1	<.01	<1	<.03	<.005	2.8	<.01	0.024	<.005	<.005	<.03	<.01	
JAN 2000 - DEC 2000																																
Mean	0.003	0.05	0.005	0.05	0.002	0.001	0.05	1.6	0.001	0.005	0.005	0.002	0.1	1	0.3	0.01	0.002	1	0.005	1	0.01	1	0.03	0.005	2.8	0.01	0.024	0.005	0.005	0.03	0.01	
Std. Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Minimum Value	0.003	0.05	0.005	0.05	0.002	0.001	0.05	1.6	0.001	0.005	0.005	0.002	0.1	1	0.3	0.01	0.002	1	0.005	1	0.01	1	0.03	0.005	2.8	0.01	0.024	0.005	0.005	0.03	0.01	
Maximum Value	0.003	0.05	0.005	0.05	0.002	0.001	0.05	1.6	0.001	0.005	0.005	0.002	0.1	1	0.3	0.01	0.002	1	0.005	1	0.01	1	0.03	0.005	2.8	0.01	0.024	0.005	0.005	0.03	0.01	
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

STATION: FCO, Old Faro Creek U/S Valley Dump

	AG-T	AL-T	AS-T	B-T	BA-T	BE-T	BI-T	CA-T	CD-T	CO-T	CR-T	CU-T	FE-T	K-T	MG-T	MN-T	MO-T	NA-T	NI-T	P-T	PB-T	S-T	SB-T	SE-T	SI-T	SN-T	SR-T	TI-T	V-T	W-T	ZN-T	
Date	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	
3/6/00	<.003	0.29	<.005	<.05	0.119	<.001	<.05	11.4	<.001	0.007	0.03	0.046	0.37	2	4.3	0.18	<.002	2	<.005	<1	<.01		<.03	<.005	4	<.01	0.089	0.015	<.005	<.03	1.88	
JAN 2000 - DEC 2000																																
Mean	0.003	0.29	0.005	0.05	0.119	0.001	0.05	11.4	0.001	0.007	0.03	0.046	0.37	2	4.3	0.18	0.002	2	0.005	1	0.01		0.03	0.005	4	0.01	0.089	0.015	0.005	0.03	1.88	
Std. Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	
Minimum Value	0.003	0.29	0.005	0.05	0.119	0.001	0.05	11.4	0.001	0.007	0.03	0.046	0.37	2	4.3	0.18	0.002	2	0.005	1	0.01		0.03	0.005	4	0.01	0.089	0.015	0.005	0.03	1.88	
Maximum Value	0.003	0.29	0.005	0.05	0.119	0.001	0.05	11.4	0.001	0.007	0.03	0.046	0.37	2	4.3	0.18	0.002	2	0.005	1	0.01		0.03	0.005	4	0.01	0.089	0.015	0.005	0.03	1.88	
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	
	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	K-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	
Date	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	
3/6/00	<.003	<.05	<.005	<.05	0.018	<.001	<.05	8.8	<.001	<.005	<.005	0.017	0.08	2	3.8	0.13	<.002	2	<.005	<1	<.01	15	<.03	<.005	3.5	<.01	0.07	<.005	<.005	<.03	1.37	
JAN 2000 - DEC 2000																																
Mean	0.003	0.05	0.005	0.05	0.018	0.001	0.05	8.8	0.001	0.005	0.005	0.017	0.08	2	3.8	0.13	0.002	2	0.005	1	0.01	15	0.03	0.005	3.5	0.01	0.07	0.005	0.005	0.03	1.37	
Std. Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	
Minimum Value	0.003	0.05	0.005	0.05	0.018	0.001	0.05	8.8	0.001	0.005	0.005	0.017	0.08	2	3.8	0.13	0.002	2	0.005	1	0.01	15	0.03	0.005	3.5	0.01	0.07	0.005	0.005	0.03	1.37	
Maximum Value	0.003	0.05	0.005	0.05	0.018	0.001	0.05	8.8	0.001	0.005	0.005	0.017	0.08	2	3.8	0.13	0.002	2	0.005	1	0.01	15	0.03	0.005	3.5	0.01	0.07	0.005	0.005	0.03	1.37	
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

ANNUAL SURFACE SEEP SURVEY - 2000

STATION: FDU, Faro Creek Diversion U/S Valley Dump

	AG-T	AL-T	AS-T	B-T	BA-T	BE-T	BI-T	CA-T	CD-T	CO-T	CR-T	CU-T	FE-T	K-T	MG-T	MN-T	MO-T	NA-T	NI-T	P-T	PB-T	S-T	SB-T	SE-T	SI-T	SN-T	SR-T	TI-T	V-T	W-T	ZN-T	
Date	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	
3/6/00	<.003	0.23	<.005	<.05	0.083	<.001	<.05	2.5	<.001	0.017	0.045	<.002	0.35	2	0.5	<.01	<.002	1	<.005	<1	0.02		<.03	<.005	3.4	<.01	0.038	0.017	<.005	<.03	<.01	
JAN 2000 - DEC 2000																																
Mean	0.003	0.23	0.005	0.05	0.083	0.001	0.05	2.5	0.001	0.017	0.045	0.002	0.35	2	0.5	0.01	0.002	1	0.005	1	0.02		0.03	0.005	3.4	0.01	0.038	0.017	0.005	0.03	0.01	
Std. Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	
Minimum Value	0.003	0.23	0.005	0.05	0.083	0.001	0.05	2.5	0.001	0.017	0.045	0.002	0.35	2	0.5	0.01	0.002	1	0.005	1	0.02		0.03	0.005	3.4	0.01	0.038	0.017	0.005	0.03	0.01	
Maximum Value	0.003	0.23	0.005	0.05	0.083	0.001	0.05	2.5	0.001	0.017	0.045	0.002	0.35	2	0.5	0.01	0.002	1	0.005	1	0.02		0.03	0.005	3.4	0.01	0.038	0.017	0.005	0.03	0.01	
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	
	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	K-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	
Date	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	
3/6/00	<.003	<.05	<.005	<.05	<.002	<.001	<.05	1.3	<.001	<.005	0.005	<.002	0.06	2	0.3	<.01	<.002	1	<.005	2	<.01	<1	<.03	<.005	2.7	<.01	0.033	<.005	<.005	<.03	0.03	
JAN 2000 - DEC 2000																																
Mean	0.003	0.05	0.005	0.05	0.002	0.001	0.05	1.3	0.001	0.005	0.005	0.002	0.06	2	0.3	0.01	0.002	1	0.005	2	0.01	1	0.03	0.005	2.7	0.01	0.033	0.005	0.005	0.03	0.03	
Std. Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Minimum Value	0.003	0.05	0.005	0.05	0.002	0.001	0.05	1.3	0.001	0.005	0.005	0.002	0.06	2	0.3	0.01	0.002	1	0.005	2	0.01	1	0.03	0.005	2.7	0.01	0.033	0.005	0.005	0.03	0.03	
Maximum Value	0.003	0.05	0.005	0.05	0.002	0.001	0.05	1.3	0.001	0.005	0.005	0.002	0.06	2	0.3	0.01	0.002	1	0.005	2	0.01	1	0.03	0.005	2.7	0.01	0.033	0.005	0.005	0.03	0.03	
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

STATION: NE1, flow to N.Fork from NE Dumps (closer to R7)

	AG-T	AL-T	AS-T	B-T	BA-T	BE-T	BI-T	CA-T	CD-T	CO-T	CR-T	CU-T	FE-T	K-T	MG-T	MN-T	MO-T	NA-T	NI-T	P-T	PB-T	S-T	SB-T	SE-T	SI-T	SN-T	SR-T	TI-T	V-T	W-T	ZN-T	
Date	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	
3/6/00	<.003	0.1	<.005	<.05	0.076	<.001	<.05	56.6	<.001	<.005	0.019	0.005	0.19	4	17.8	<.01	0.034	4	0.006	4	<.01		<.03	<.005	2.9	<.01	0.312	0.019	<.005	<.03	0.02	
JAN 2000 - DEC 2000																																
Mean	0.003	0.1	0.005	0.05	0.076	0.001	0.05	56.6	0.001	0.005	0.019	0.005	0.19	4	17.8	0.01	0.034	4	0.006	4	0.01		0.03	0.005	2.9	0.01	0.312	0.019	0.005	0.03	0.02	
Std. Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	
Minimum Value	0.003	0.1	0.005	0.05	0.076	0.001	0.05	56.6	0.001	0.005	0.019	0.005	0.19	4	17.8	0.01	0.034	4	0.006	4	0.01		0.03	0.005	2.9	0.01	0.312	0.019	0.005	0.03	0.02	
Maximum Value	0.003	0.1	0.005	0.05	0.076	0.001	0.05	56.6	0.001	0.005	0.019	0.005	0.19	4	17.8	0.01	0.034	4	0.006	4	0.01		0.03	0.005	2.9	0.01	0.312	0.019	0.005	0.03	0.02	
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	
	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	K-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	
Date	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	
3/6/00	<.003	<.05	<.005	<.05	0.039	<.001	<.05	53.1	<.001	<.005	<.005	<.002	<.01	4	17.4	0.02	0.003	4	<.005	<1	<.01	43	<.03	<.005	2.9	<.01	0.271	0.011	<.005	<.03	<.01	
JAN 2000 - DEC 2000																																
Mean	0.003	0.05	0.005	0.05	0.039	0.001	0.05	53.1	0.001	0.005	0.005	0.002	0.01	4	17.4	0.02	0.003	4	0.005	1	0.01	43	0.03	0.005	2.9	0.01	0.271	0.011	0.005	0.03	0.01	
Std. Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Minimum Value	0.003	0.05	0.005	0.05	0.039	0.001	0.05	53.1	0.001	0.005	0.005	0.002	0.01	4	17.4	0.02	0.003	4	0.005	1	0.01	43	0.03	0.005	2.9	0.01	0.271	0.011	0.005	0.03	0.01	
Maximum Value	0.003	0.05	0.005	0.05	0.039	0.001	0.05	53.1	0.001	0.005	0.005	0.002	0.01	4	17.4	0.02	0.003	4	0.005	1	0.01	43	0.03	0.005	2.9	0.01	0.271	0.011	0.005	0.03	0.01	
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

ANNUAL SURFACE SEEP SURVEY - 2000

STATION: NE2, flow to N.Fork from NE Dumps (mid NE1&3)

	AG-T	AL-T	AS-T	B-T	BA-T	BE-T	BI-T	CA-T	CD-T	CO-T	CR-T	CU-T	FE-T	K-T	MG-T	MN-T	MO-T	NA-T	NI-T	P-T	PB-T	S-T	SB-T	SE-T	SI-T	SN-T	SR-T	TI-T	V-T	W-T	ZN-T	
Date	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	
3/6/00	<.003	0.2	<.005	<.05	0.22	0.001	<.05	198.3	0.006	<.005	0.033	0.014	0.11	8	154.8	0.02	<.002	10	0.01	<1	0.03		<.03	<.005	4.6	<.01	0.978	0.026	<.005	<.03	<.01	
JAN 2000 - DEC 2000																																
Mean	0.003	0.2	0.005	0.05	0.22	0.001	0.05	198.3	0.006	0.005	0.033	0.014	0.11	8	154.8	0.02	0.002	10	0.01	1	0.03		0.03	0.005	4.6	0.01	0.978	0.026	0.005	0.03	0.01	
Std. Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	
Minimum Value	0.003	0.2	0.005	0.05	0.22	0.001	0.05	198.3	0.006	0.005	0.033	0.014	0.11	8	154.8	0.02	0.002	10	0.01	1	0.03		0.03	0.005	4.6	0.01	0.978	0.026	0.005	0.03	0.01	
Maximum Value	0.003	0.2	0.005	0.05	0.22	0.001	0.05	198.3	0.006	0.005	0.033	0.014	0.11	8	154.8	0.02	0.002	10	0.01	1	0.03		0.03	0.005	4.6	0.01	0.978	0.026	0.005	0.03	0.01	
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	

	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	K-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	
Date	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	
3/6/00	<.003	0.09	<.005	<.05	0.079	<.001	<.05	185.1	0.006	<.005	<.005	0.008	0.03	7	149.2	0.02	<.002	10	<.005	<1	<.01	264	<.03	<.005	4.4	<.01	0.889	0.007	<.005	<.03	<.01	
JAN 2000 - DEC 2000																																
Mean	0.003	0.09	0.005	0.05	0.079	0.001	0.05	185.1	0.006	0.005	0.005	0.008	0.03	7	149.2	0.02	0.002	10	0.005	1	0.01	264	0.03	0.005	4.4	0.01	0.889	0.007	0.005	0.03	0.01	
Std. Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Minimum Value	0.003	0.09	0.005	0.05	0.079	0.001	0.05	185.1	0.006	0.005	0.005	0.008	0.03	7	149.2	0.02	0.002	10	0.005	1	0.01	264	0.03	0.005	4.4	0.01	0.889	0.007	0.005	0.03	0.01	
Maximum Value	0.003	0.09	0.005	0.05	0.079	0.001	0.05	185.1	0.006	0.005	0.005	0.008	0.03	7	149.2	0.02	0.002	10	0.005	1	0.01	264	0.03	0.005	4.4	0.01	0.889	0.007	0.005	0.03	0.01	
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

STATION: NF1, North Fork Rose Creek Site 1 u/s of Haul Road

	AG-T	AL-T	AS-T	B-T	BA-T	BE-T	BI-T	CA-T	CD-T	CO-T	CR-T	CU-T	FE-T	K-T	MG-T	MN-T	MO-T	NA-T	NI-T	P-T	PB-T	S-T	SB-T	SE-T	SI-T	SN-T	SR-T	TI-T	V-T	W-T	ZN-T	
Date	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	
25/07/00	<.003	0.06	<.005	<.05	0.126	0.001	<.05	17.3	<.001	0.025	0.176	0.012	0.59	3	4.1	0.02	0.005	3	0.018	5	<.01		<.03	<.005	4	<.01	0.201	0.015	0.02	<.03	0.03	
JAN 2000 - DEC 2000																																
Mean	0.003	0.06	0.005	0.05	0.126	0.001	0.05	17.3	0.001	0.025	0.176	0.012	0.59	3	4.1	0.02	0.005	3	0.018	5	0.01		0.03	0.005	4	0.01	0.201	0.015	0.02	0.03	0.03	
Std. Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	
Minimum Value	0.003	0.06	0.005	0.05	0.126	0.001	0.05	17.3	0.001	0.025	0.176	0.012	0.59	3	4.1	0.02	0.005	3	0.018	5	0.01		0.03	0.005	4	0.01	0.201	0.015	0.02	0.03	0.03	
Maximum Value	0.003	0.06	0.005	0.05	0.126	0.001	0.05	17.3	0.001	0.025	0.176	0.012	0.59	3	4.1	0.02	0.005	3	0.018	5	0.01		0.03	0.005	4	0.01	0.201	0.015	0.02	0.03	0.03	
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	

	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	K-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	
Date	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	
25/07/00	<.003	<.05	<.005	<.05	0.023	<.001	<.05	16.3	<.001	<.005	<.005	0.002	0.18	1	4.1	0.09	<.002	4	0.013	4	<.01	3	<.03	<.005	4	<.01	0.123	<.005	0.029	<.03	0.35	
JAN 2000 - DEC 2000																																
Mean	0.003	0.05	0.005	0.05	0.023	0.001	0.05	16.3	0.001	0.005	0.005	0.002	0.18	1	4.1	0.09	0.002	4	0.013	4	0.01	3	0.03	0.005	4	0.01	0.123	0.005	0.029	0.03	0.35	
Std. Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Minimum Value	0.003	0.05	0.005	0.05	0.023	0.001	0.05	16.3	0.001	0.005	0.005	0.002	0.18	1	4.1	0.09	0.002	4	0.013	4	0.01	3	0.03	0.005	4	0.01	0.123	0.005	0.029	0.03	0.35	
Maximum Value	0.003	0.05	0.005	0.05	0.023	0.001	0.05	16.3	0.001	0.005	0.005	0.002	0.18	1	4.1	0.09	0.002	4	0.013	4	0.01	3	0.03	0.005	4	0.01	0.123	0.005	0.029	0.03	0.35	
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

ANNUAL SURFACE SEEP SURVEY - 2000

STATION: NF2, North Fork Rose Creek Site 2 d/s of Haul Road

	AG-T	AL-T	AS-T	B-T	BA-T	BE-T	BI-T	CA-T	CD-T	CO-T	CR-T	CU-T	FE-T	K-T	MG-T	MN-T	MO-T	NA-T	NI-T	P-T	PB-T	S-T	SB-T	SE-T	SI-T	SN-T	SR-T	TI-T	V-T	W-T	ZN-T	
Date	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	
25/07/00	<.003	<.05	<.005	<.05	0.1	0.001	<.05	17.5	<.001	0.021	0.148	0.012	0.51	3	4	0.02	<.002	3	0.026	4	<.01		<.03	<.005	3.8	<.01	0.216	0.015	0.042	<.03	0.05	
JAN 2000 - DEC 2000																																
Mean	0.003	0.05	0.005	0.05	0.1	0.001	0.05	17.5	0.001	0.021	0.148	0.012	0.51	3	4	0.02	0.002	3	0.026	4	0.01		0.03	0.005	3.8	0.01	0.216	0.015	0.042	0.03	0.05	
Std. Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	
Minimum Value	0.003	0.05	0.005	0.05	0.1	0.001	0.05	17.5	0.001	0.021	0.148	0.012	0.51	3	4	0.02	0.002	3	0.026	4	0.01		0.03	0.005	3.8	0.01	0.216	0.015	0.042	0.03	0.05	
Maximum Value	0.003	0.05	0.005	0.05	0.1	0.001	0.05	17.5	0.001	0.021	0.148	0.012	0.51	3	4	0.02	0.002	3	0.026	4	0.01		0.03	0.005	3.8	0.01	0.216	0.015	0.042	0.03	0.05	
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	

	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	K-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	
Date	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	
25/07/00	<.003	<.05	<.005	<.05	0.012	<.001	<.05	13.6	0.005	<.005	<.005	0.005	0.19	2	4.2	0.06	<.002	3	0.009	4	<.01	3	<.03	<.005	3.8	<.01	0.097	<.005	0.029	<.03	0.01	
JAN 2000 - DEC 2000																																
Mean	0.003	0.05	0.005	0.05	0.012	0.001	0.05	13.6	0.005	0.005	0.005	0.005	0.19	2	4.2	0.06	0.002	3	0.009	4	0.01	3	0.03	0.005	3.8	0.01	0.097	0.005	0.029	0.03	0.01	
Std. Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Minimum Value	0.003	0.05	0.005	0.05	0.012	0.001	0.05	13.6	0.005	0.005	0.005	0.005	0.19	2	4.2	0.06	0.002	3	0.009	4	0.01	3	0.03	0.005	3.8	0.01	0.097	0.005	0.029	0.03	0.01	
Maximum Value	0.003	0.05	0.005	0.05	0.012	0.001	0.05	13.6	0.005	0.005	0.005	0.005	0.19	2	4.2	0.06	0.002	3	0.009	4	0.01	3	0.03	0.005	3.8	0.01	0.097	0.005	0.029	0.03	0.01	
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

STATION: SP5-6, Ditch to Main pit from NE Dumps

	AG-T	AL-T	AS-T	B-T	BA-T	BE-T	BI-T	CA-T	CD-T	CO-T	CR-T	CU-T	FE-T	K-T	MG-T	MN-T	MO-T	NA-T	NI-T	P-T	PB-T	S-T	SB-T	SE-T	SI-T	SN-T	SR-T	TI-T	V-T	W-T	ZN-T	
Date	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	
3/6/00	<.003	0.61	<.005	<.05	0.095	0.001	<.05	218.8	0.02	0.01	0.033	0.024	0.55	8	169.3	0.47	0.006	10	0.062	2	0.11		<.03	<.005	3.7	<.01	0.994	0.035	<.005	<.03	7.14	
JAN 2000 - DEC 2000																																
Mean	0.003	0.61	0.005	0.05	0.095	0.001	0.05	218.8	0.02	0.01	0.033	0.024	0.55	8	169.3	0.47	0.006	10	0.062	2	0.11		0.03	0.005	3.7	0.01	0.994	0.035	0.005	0.03	7.14	
Std. Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	
Minimum Value	0.003	0.61	0.005	0.05	0.095	0.001	0.05	218.8	0.02	0.01	0.033	0.024	0.55	8	169.3	0.47	0.006	10	0.062	2	0.11		0.03	0.005	3.7	0.01	0.994	0.035	0.005	0.03	7.14	
Maximum Value	0.003	0.61	0.005	0.05	0.095	0.001	0.05	218.8	0.02	0.01	0.033	0.024	0.55	8	169.3	0.47	0.006	10	0.062	2	0.11		0.03	0.005	3.7	0.01	0.994	0.035	0.005	0.03	7.14	
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	

	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	K-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	
Date	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	
3/6/00	<.003	0.12	<.005	<.05	0.059	0.001	<.05	201	0.008	0.011	<.005	0.013	0.03	7	155.9	0.29	<.002	9	0.04	<1	0.02	324	<.03	<.005	2.4	<.01	0.899	0.007	<.005	<.03	0.54	
JAN 2000 - DEC 2000																																
Mean	0.003	0.12	0.005	0.05	0.059	0.001	0.05	201	0.008	0.011	0.005	0.013	0.03	7	155.9	0.29	0.002	9	0.04	1	0.02	324	0.03	0.005	2.4	0.01	0.899	0.007	0.005	0.03	0.54	
Std. Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Minimum Value	0.003	0.12	0.005	0.05	0.059	0.001	0.05	201	0.008	0.011	0.005	0.013	0.03	7	155.9	0.29	0.002	9	0.04	1	0.02	324	0.03	0.005	2.4	0.01	0.899	0.007	0.005	0.03	0.54	
Maximum Value	0.003	0.12	0.005	0.05	0.059	0.001	0.05	201	0.008	0.011	0.005	0.013	0.03	7	155.9	0.29	0.002	9	0.04	1	0.02	324	0.03	0.005	2.4	0.01	0.899	0.007	0.005	0.03	0.54	
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

ANNUAL SURFACE SEEP SURVEY - 2000

STATION: W10, Upper Guardhouse Ck u/s of NW Dump

	AG-T	AL-T	AS-T	B-T	BA-T	BE-T	BI-T	CA-T	CD-T	CO-T	CR-T	CU-T	FE-T	K-T	MG-T	MN-T	MO-T	NA-T	NI-T	P-T	PB-T	S-T	SB-T	SE-T	SI-T	SN-T	SR-T	TI-T	V-T	W-T	ZN-T	
Date	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	
3/6/00	<.003	<.05	<.005	<.05	0.063	<.001	<.05	7.4	<.001	<.005	0.048	<.002	0.11	2	1.5	<.01	<.002	1	<.005	<1	<.01		<.03	<.005	3.6	<.01	0.047	0.006	<.005	<.03	<.01	
JAN 2000 - DEC 2000																																
Mean	0.003	0.05	0.005	0.05	0.063	0.001	0.05	7.4	0.001	0.005	0.048	0.002	0.11	2	1.5	0.01	0.002	1	0.005	1	0.01		0.03	0.005	3.6	0.01	0.047	0.006	0.005	0.03	0.01	
Std. Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	
Minimum Value	0.003	0.05	0.005	0.05	0.063	0.001	0.05	7.4	0.001	0.005	0.048	0.002	0.11	2	1.5	0.01	0.002	1	0.005	1	0.01		0.03	0.005	3.6	0.01	0.047	0.006	0.005	0.03	0.01	
Maximum Value	0.003	0.05	0.005	0.05	0.063	0.001	0.05	7.4	0.001	0.005	0.048	0.002	0.11	2	1.5	0.01	0.002	1	0.005	1	0.01		0.03	0.005	3.6	0.01	0.047	0.006	0.005	0.03	0.01	
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	

	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	K-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	
Date	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	
3/6/00	<.003	<.05	<.005	<.05	<.002	<.001	<.05	6.8	<.001	<.005	0.036	<.002	<.01	1	1.4	<.01	<.002	2	<.005	<1	<.01	<1	<.03	<.005	3.5	<.01	0.041	<.005	<.005	<.03	<.01	
JAN 2000 - DEC 2000																																
Mean	0.003	0.05	0.005	0.05	0.002	0.001	0.05	6.8	0.001	0.005	0.036	0.002	0.01	1	1.4	0.01	0.002	2	0.005	1	0.01	1	0.03	0.005	3.5	0.01	0.041	0.005	0.005	0.03	0.01	
Std. Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Minimum Value	0.003	0.05	0.005	0.05	0.002	0.001	0.05	6.8	0.001	0.005	0.036	0.002	0.01	1	1.4	0.01	0.002	2	0.005	1	0.01	1	0.03	0.005	3.5	0.01	0.041	0.005	0.005	0.03	0.01	
Maximum Value	0.003	0.05	0.005	0.05	0.002	0.001	0.05	6.8	0.001	0.005	0.036	0.002	0.01	1	1.4	0.01	0.002	2	0.005	1	0.01	1	0.03	0.005	3.5	0.01	0.041	0.005	0.005	0.03	0.01	
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

STATION: W8, Upper Guardhouse Creek d/s of NW Dump

	AG-T	AL-T	AS-T	B-T	BA-T	BE-T	BI-T	CA-T	CD-T	CO-T	CR-T	CU-T	FE-T	K-T	MG-T	MN-T	MO-T	NA-T	NI-T	P-T	PB-T	S-T	SB-T	SE-T	SI-T	SN-T	SR-T	TI-T	V-T	W-T	ZN-T	
Date	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	
3/6/00	<.003	<.05	<.005	<.05	0.081	<.001	<.05	8.4	<.001	<.005	0.093	<.002	0.1	2	0.9	<.01	<.002	1	0.007	2	<.01		<.03	<.005	4.1	<.01	0.052	0.007	<.005	<.03	0.02	
JAN 2000 - DEC 2000																																
Mean	0.003	0.05	0.005	0.05	0.081	0.001	0.05	8.4	0.001	0.005	0.093	0.002	0.1	2	0.9	0.01	0.002	1	0.007	2	0.01		0.03	0.005	4.1	0.01	0.052	0.007	0.005	0.03	0.02	
Std. Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	
Minimum Value	0.003	0.05	0.005	0.05	0.081	0.001	0.05	8.4	0.001	0.005	0.093	0.002	0.1	2	0.9	0.01	0.002	1	0.007	2	0.01		0.03	0.005	4.1	0.01	0.052	0.007	0.005	0.03	0.02	
Maximum Value	0.003	0.05	0.005	0.05	0.081	0.001	0.05	8.4	0.001	0.005	0.093	0.002	0.1	2	0.9	0.01	0.002	1	0.007	2	0.01		0.03	0.005	4.1	0.01	0.052	0.007	0.005	0.03	0.02	
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	

	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	K-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	
Date	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	
3/6/00	<.003	<.05	<.005	<.05	<.002	<.001	<.05	6.2	<.001	<.005	<.005	<.002	<.01	2	0.8	<.01	<.002	1	<.005	<1	<.01	1	<.03	<.005	3.5	<.01	0.031	<.005	<.005	<.03	<.01	
JAN 2000 - DEC 2000																																
Mean	0.003	0.05	0.005	0.05	0.002	0.001	0.05	6.2	0.001	0.005	0.005	0.002	0.01	2	0.8	0.01	0.002	1	0.005	1	0.01	1	0.03	0.005	3.5	0.01	0.031	0.005	0.005	0.03	0.01	
Std. Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Minimum Value	0.003	0.05	0.005	0.05	0.002	0.001	0.05	6.2	0.001	0.005	0.005	0.002	0.01	2	0.8	0.01	0.002	1	0.005	1	0.01	1	0.03	0.005	3.5	0.01	0.031	0.005	0.005	0.03	0.01	
Maximum Value	0.003	0.05	0.005	0.05	0.002	0.001	0.05	6.2	0.001	0.005	0.005	0.002	0.01	2	0.8	0.01	0.002	1	0.005	1	0.01	1	0.03	0.005	3.5	0.01	0.031	0.005	0.005	0.03	0.01	
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

ANNUAL SURFACE SEEP SURVEY - 2000

STATION: N7, Old Faro Creek Channel at mine access road

	AG-T	AL-T	AS-T	B-T	BA-T	BE-T	BI-T	CA-T	CD-T	CO-T	CR-T	CU-T	FE-T	K-T	MG-T	MN-T	MO-T	NA-T	NI-T	P-T	PB-T	S-T	SB-T	SE-T	SI-T	SN-T	SR-T	TI-T	V-T	W-T	ZN-T	
Date	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	
25/07/00	<.003	2.21	<.005	<.05	0.098	0.006	<.05	471.3	0.187	0.272	0.067	0.102	882.49	11	297.1	28.41	0.204	89	0.225	25	0.01		0.59	<.005	12.4	<.01	2.951	0.063	<.005	<.03	183.69	
JAN 2000 - DEC 2000																																
Mean	0.003	2.21	0.005	0.05	0.098	0.006	0.05	471.3	0.187	0.272	0.067	0.102	882.49	11	297.1	28.41	0.204	89	0.225	25	0.01		0.59	0.005	12.4	0.01	2.951	0.063	0.005	0.03	183.69	
Std. Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0		
Minimum Value	0.003	2.21	0.005	0.05	0.098	0.006	0.05	471.3	0.187	0.272	0.067	0.102	882.49	11	297.1	28.41	0.204	89	0.225	25	0.01		0.59	0.005	12.4	0.01	2.951	0.063	0.005	0.03	183.69	
Maximum Value	0.003	2.21	0.005	0.05	0.098	0.006	0.05	471.3	0.187	0.272	0.067	0.102	882.49	11	297.1	28.41	0.204	89	0.225	25	0.01		0.59	0.005	12.4	0.01	2.951	0.063	0.005	0.03	183.69	
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1		
	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	K-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	
Date	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	
25/07/00	<.003	0.5	<.005	<.05	0.755	0.005	<.05	471.9	0.19	0.257	<.005	0.065	763.89	11	299.3	30.64	0.198	91	0.205	27	<.01	1430	0.47	0.11	10.3	0.05	3.046	0.046	<.005	<.03	180.52	
JAN 2000 - DEC 2000																																
Mean	0.003	0.5	0.005	0.05	0.755	0.005	0.05	471.9	0.19	0.257	0.005	0.065	763.89	11	299.3	30.64	0.198	91	0.205	27	0.01	1430	0.47	0.11	10.3	0.05	3.046	0.046	0.005	0.03	180.52	
Std. Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Minimum Value	0.003	0.5	0.005	0.05	0.755	0.005	0.05	471.9	0.19	0.257	0.005	0.065	763.89	11	299.3	30.64	0.198	91	0.205	27	0.01	1430	0.47	0.11	10.3	0.05	3.046	0.046	0.005	0.03	180.52	
Maximum Value	0.003	0.5	0.005	0.05	0.755	0.005	0.05	471.9	0.19	0.257	0.005	0.065	763.89	11	299.3	30.64	0.198	91	0.205	27	0.01	1430	0.47	0.11	10.3	0.05	3.046	0.046	0.005	0.03	180.52	
Num. Values	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

