

MINTO EXPLORATIONS LTD.

WATER USE LICENCE QZ96-006

ANNUAL REPORT

MAY 1, 2005 TO APRIL 30, 2006

July 2006

Prepared by:



ACCESS
CONSULTING
GROUP

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1.0 INTRODUCTION

This document has been prepared for Minto Explorations Ltd. (MintoEx) and comprises the Annual Report for the period of May 1, 2005 to April 30, 2006 as required by Water Use Licence (WUL) QZ96-006, Clause 11 and 12. During this period, the Minto Property has been in a state of Interim Closure. The summary of activities at the Minto Property for the year is provided, including: surface and groundwater sampling, flow monitoring, drill programs, access road rehabilitation, trail construction, camp maintenance, and pre-construction mobilization. Figure 1 shows the Minto Property and sample station locations.

The following environmental baseline data collection was conducted at the Minto Property in 2005:

1. Surface water quality sampling and analysis at 10 stations – 8 Minto Creek main stem and tributary sites, and 2 within Yukon River receiving waters.
2. Flow volume measurements at various Minto Creek main stem stations.
3. Purging, sampling and analysis of 2 groundwater stations.

In addition to the above-mentioned activities, two amendments to the WUL were made. Amendment 2 was approved on September 20, 2005 to extend the term of licence till June 30, 2016 as well as to clarify monitoring requirements during Interim Closure, and other minor revisions. Amendment 3 was approved April 7, 2006 to include the processing of sulphide ore in addition to oxide ore.

In June 2005, Sherwood Copper Corporation acquired MintoEx and ownership of the Minto Property. MintoEx is a wholly owned subsidiary of Sherwood Copper Corporation. Contact information is as follows:

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Contact: Mr. Stephen Quin, President

Minto Explorations Water Use Licence QZ96-006 - Annual Report



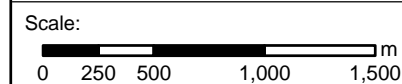
Legend

-  Water Quality Station
-  Piezometer Location
-  Access Road
-  Contour
-  Water Course
-  Intermittent Water Course
-  Proposed Areas of Construction

Projection: UTM Zone 8 NAD83
Units: Meters
NTS: 105/11

Figure 1

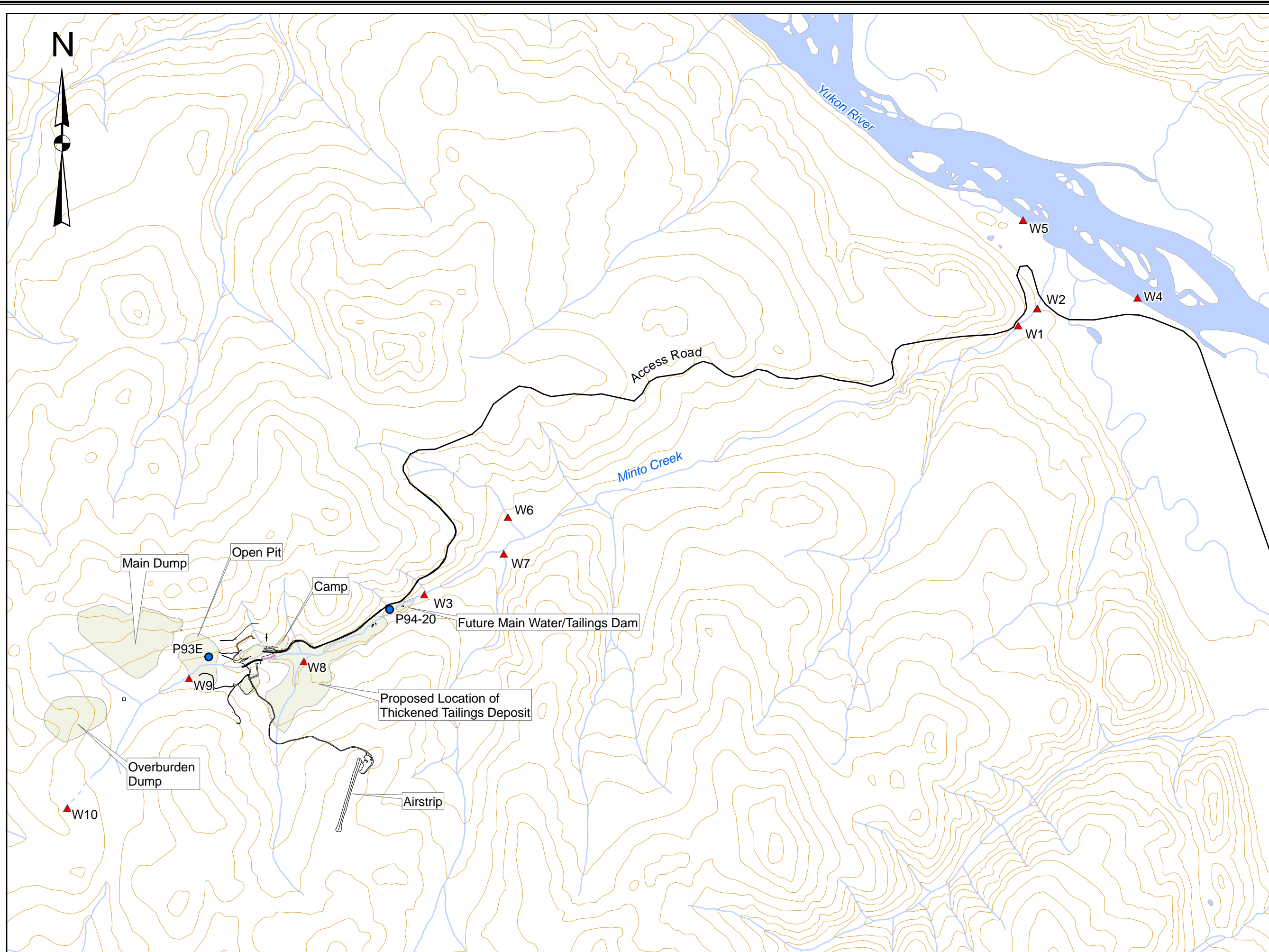
Minto Mine Sample Station Locations



Drawn by: HD Checked by: SK

Date: July 2006

Our File: D:\Project\AllProjects\Minto\gis\mxd\WaterUseLic\July06\Fig1_SampleStnLoc.mxd



2.0 WATER QUALITY SAMPLING

Monitoring station locations sampled during the year are described in Table 1 and shown in Figure 1.

Table 1 Sample Station Descriptions and Locations

Sample Station	Easting	Northing	Description / Location
W1	385081	6945038	Minto Creek approximately 0.5 km upstream of lower road crossing.
W2	392616	6948477	Minto Creek at lower road crossing.
W3	386747	6945682	Minto Creek at dam site.
W4	393541	6948502	Yukon River, 100 m upstream of the confluence with Minto Creek.
W5	392448	6949243	Yukon River, 100 m downstream of the confluence with Minto Creek.
W6	387544	6946420	South flowing tributary to Minto Creek approximately 1 km downstream of dam site.
W7	387504	6946069	North flowing tributary to Minto Creek approximately 0.8 km downstream dam site.
W8	385601	6945048	North flowing tributary to Minto Creek approximately 0.5 km downstream camp site.
W9	384506	6944883	Minto Creek upstream of pit area.
W10	383348	6943654	Minto Creek headwaters, 50 m downstream upper road crossing.
P93-E	384695	6945091	Groundwater piezometer located in pit area, near W9.
P94-20	386418	6945541	Groundwater piezometer located north abutment of dam, near W3.

*Coordinate Projection: UTM NAD83 Zone 8; Coordinates extracted from 1:50,000 scale map.

During Interim Closure, WUL Clause 88 requires sampling at sample stations W2, W3, P93-E, and P94-20 annually in May or June. Sampling events that occurred between May 1, 2005 and April 30, 2006 at the Minto Property are shown in Table 2.

Table 2 Sample Stations and Sampling Events Between May 1, 2005 and April 30, 2006

Sample Event Date	Sample Stations											
	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	P93-E	P94-20
May 27, 2005	X	X	X	X	X	X	X	X	X	X	X	X
June 30, 2005	X	X	X	X	X	X	X	X	X	X	X	X
July 28&29, 2005	X	X	X	X	X	X	X	X	X	X	X	X
Aug 29&30, 2005	X	X	X	X	X	X	X	X	X	X	X	X
Sept 28, 2005	X	X	X	X	X	X	X	X	X	X	X	X
Oct 15, 2005	X	X	X	X	X	X	X	X	X	X	X	X
Mar 2, 2006			X								X	X
Apr 8, 2006		X	X									

Data collection took place on a monthly basis from May to October 2005, and in March and April 2006. MintoEx completed additional sampling to augment pre-development baseline water quality conditions at the site.

2.1 WATER QUALITY ANALYSIS

As per the WUL, Clause 88, the following water quality analysis was conducted at stations W2, W3, P93-E and P94-20:

- Total metals and dissolved metals;
- Total suspended solids and total dissolved solids,
- Hardness;
- Total alkalinity;
- Total sulphate;
- Total ammonia, nitrogen-nitrate, and nitrogen-nitrite; and
- Dissolved organic carbon, and total organic carbon (W2 and W3).

Refer to Appendix A for a summary table of water quality data collected at sample stations W2, W3, P93-E, and P94-20 during the year.

2.1.1 Overview

Metals that have naturally elevated concentrations in Minto Creek include aluminum, copper, iron, lead, zinc, and manganese. Historic sampling (since 1993) has frequently returned background concentrations of these metals in upper Minto Creek that are higher than the water licence effluent discharge standards. Historic background total suspended solids concentrations have frequently been reported above the discharge standard (15 mg/L). The Minto property and much of the surrounding area, including the headwaters of the Minto Creek drainage upstream of the mine site and sample station W3 have historically been impacted by forest fires, the most recent of which was in 1997. This may contribute to the increased levels of suspended solids seen in historic water quality results.

The following is a discussion of water quality data collected between May 1, 2005 and April 31, 2006 from sample stations W2, W3, P93-E, and P94-20. Specific metals have been chosen for discussion based on them having established guidelines for the parameters by the Canadian Council of Ministers of the Environment (CCME). The CCME guidelines have been provided for reference only; there is no licence requirement to meet these criteria.

2.1.2 W2 – Minto Creek at Lower Road Crossing

Ranges between 1993 and 2006 at station W2 for some key parameters are presented below. Levels recorded in 2005 and 2006 did not significantly alter these ranges, and are shown in the referenced figures.

- Hardness ranges from 16 to 153 mg/L.
- Total aluminum ranges from below detection (BD) to 22.8 mg/L.
- Total iron ranges from 0.052 to 26.2 mg/L.
- Total arsenic ranges from BD to 0.0064 mg/L.
- Total cadmium ranges from BD to 0.0006 mg/L.
- Total chromium ranges from BD to 0.038 mg/L.
- Total copper ranges from BD to 0.07 mg/L.

It is not unusual for background total aluminum (Figure 2) and iron concentrations to exceed the CCME guidelines. Background total arsenic levels are well below the CCME guideline (0.005 mg/L) in 2005 and 2006 (Figure 3). Total chromium ranges from below detection levels to 0.0012 mg/L in 2005/2006 (Figure 4). Total copper levels in 2005 and 2006 (Figure 5) occasionally exceeded the CCME guideline

(0.004 mg/L). Total lead, molybdenum, nickel, silver, and zinc concentrations are generally below CCME guidelines. Total mercury, selenium, and thallium levels are below the minimum detection limit.

Dissolved aluminum, arsenic, cadmium, chromium, and copper levels are either below detection or below CCME guidelines. Dissolved iron levels are also generally below the CCME guideline. Dissolved lead, mercury, selenium, silver, and thallium levels are below detection. Dissolved molybdenum, nickel, and zinc are below CCME guidelines.

Levels recorded for pH were within the range specified by CCME (6.5 to 9.0).

Historically, it is not uncommon for background total suspended solids levels to be higher than the WUL discharge standard (15 mg/L). Total suspended solids levels for 2005 and 2006 are shown in Figure 6. Total dissolved solids levels were elevated in April 2006 (342 mg/L), while levels ranged between 138 and 194 mg/L during the other sample events (Figure 7).

Total alkalinity is generally higher than in previous years. Total sulphate is within the typical range in 2005, while elevated total sulphate was recorded in April 2006 (43.6 mg/L).

While not near to exceeding the CCME guideline for ammonia, the highest levels at W2 were recorded during 2005 and 2006 (0.029 mg/L in August 2005). No ammonium nitrate was used at the site during this time.

Nitrogen-nitrate levels appear to be within the typical range. Nitrogen-nitrite levels were also within the typical range or below detection.

Dissolved organic carbon was measured for the first time in April 2006 and ranged between 11.1 and 18 mg/L. Total organic carbon was also measured for the first time in April 2006 and ranged between 12.5 and 21.7 mg/L.

Figure 2 Total Aluminum Measured at Station W2 Between May 2005 and April 2006

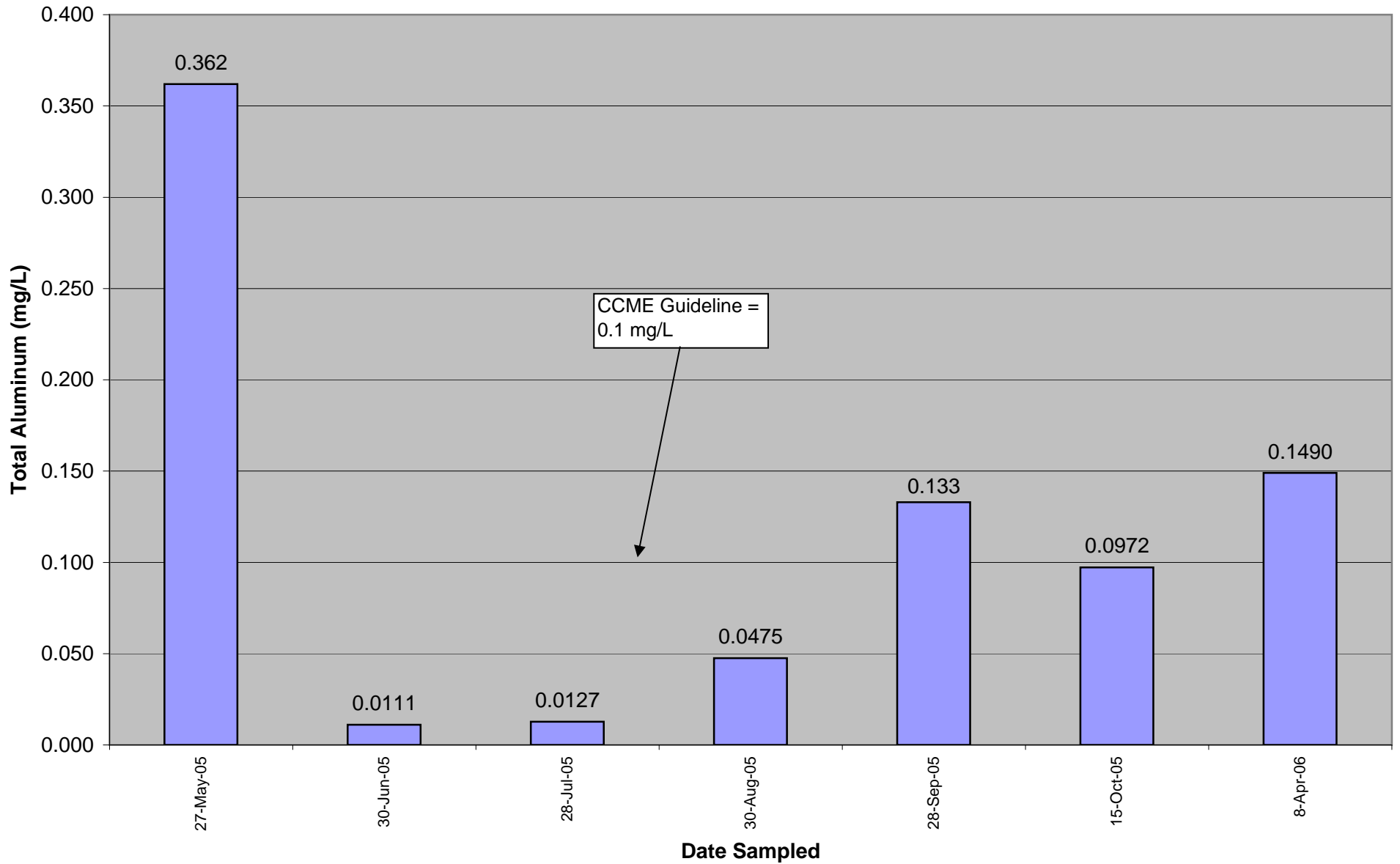


Figure 3 Total Arsenic Measured at Station W2 Between May 2005 and April 2006

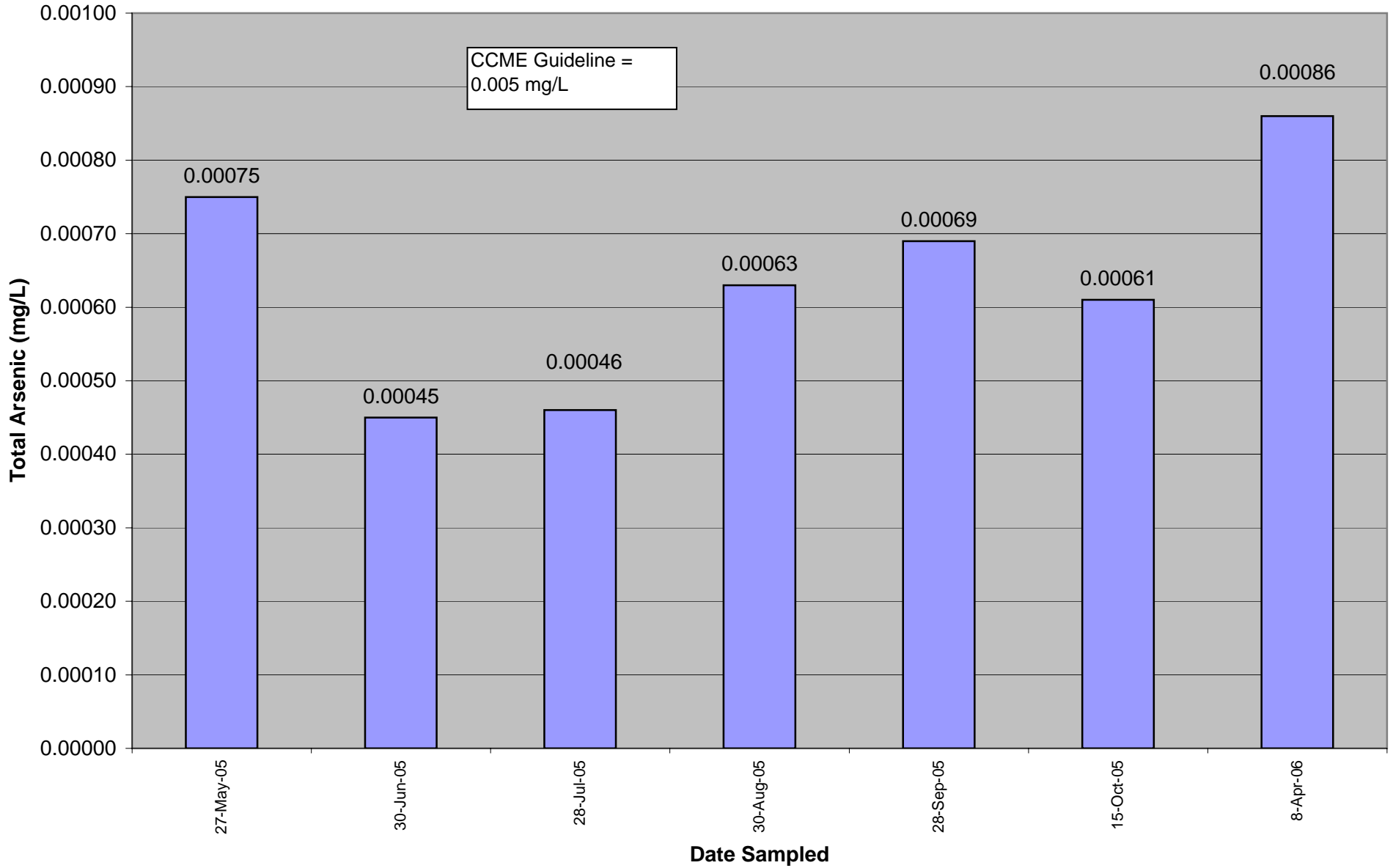
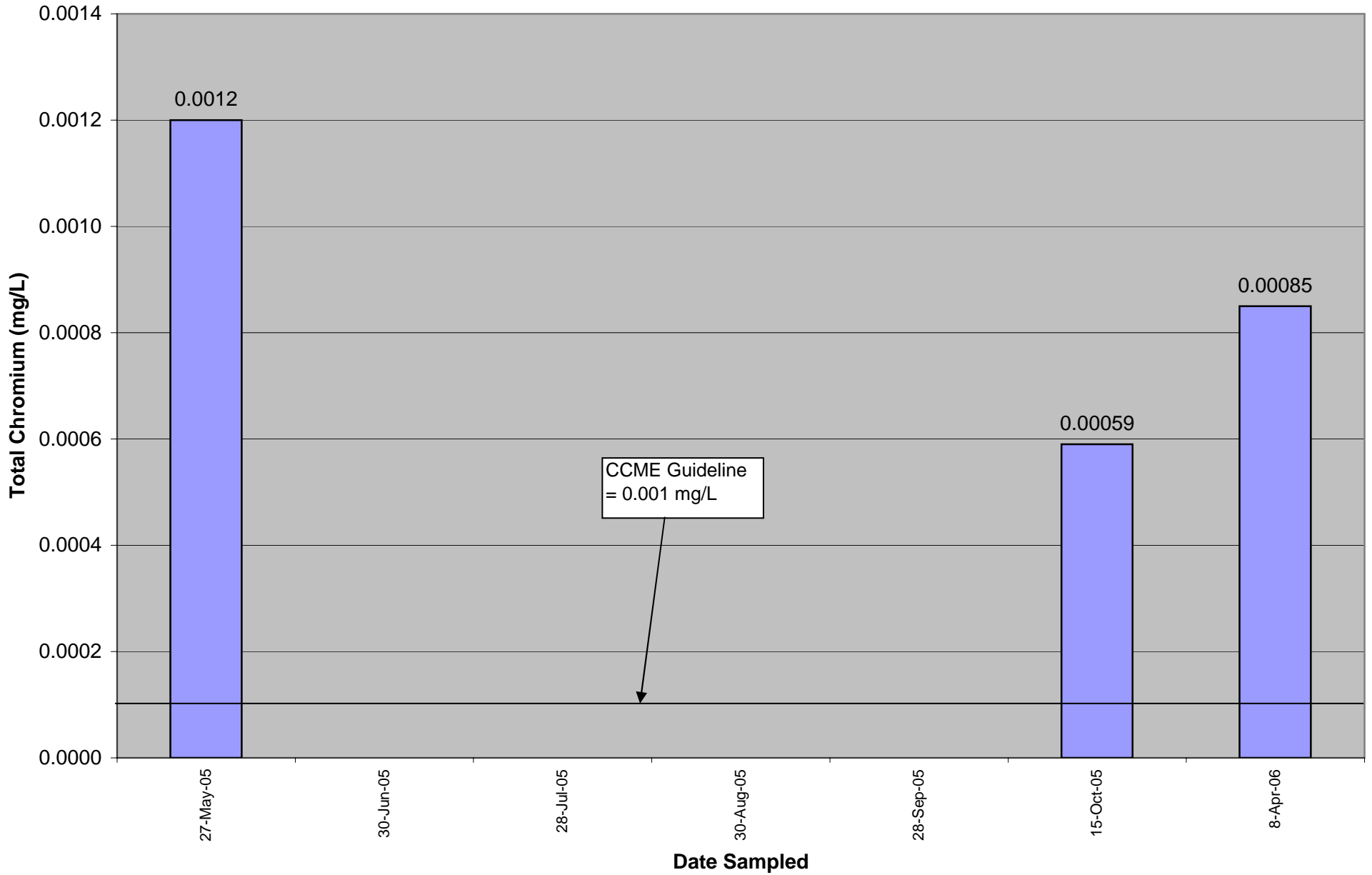


Figure 4 Total Chromium Measured at Station W2 Between May 2005 and April 2006



* Note - where no value is provided, levels are below detection.

Figure 5 Total Copper Measured at Station W2 Between May 2005 and April 2006

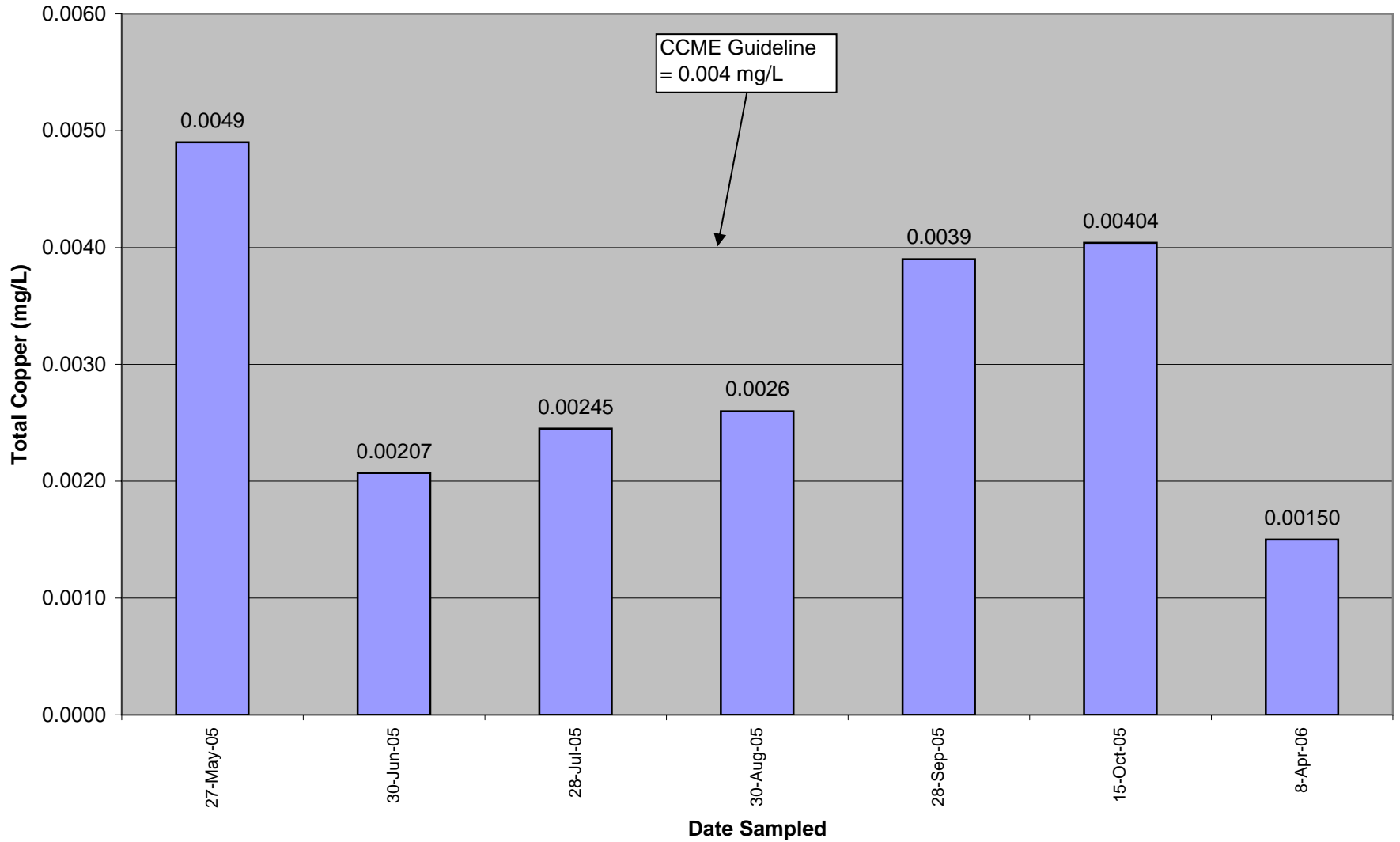
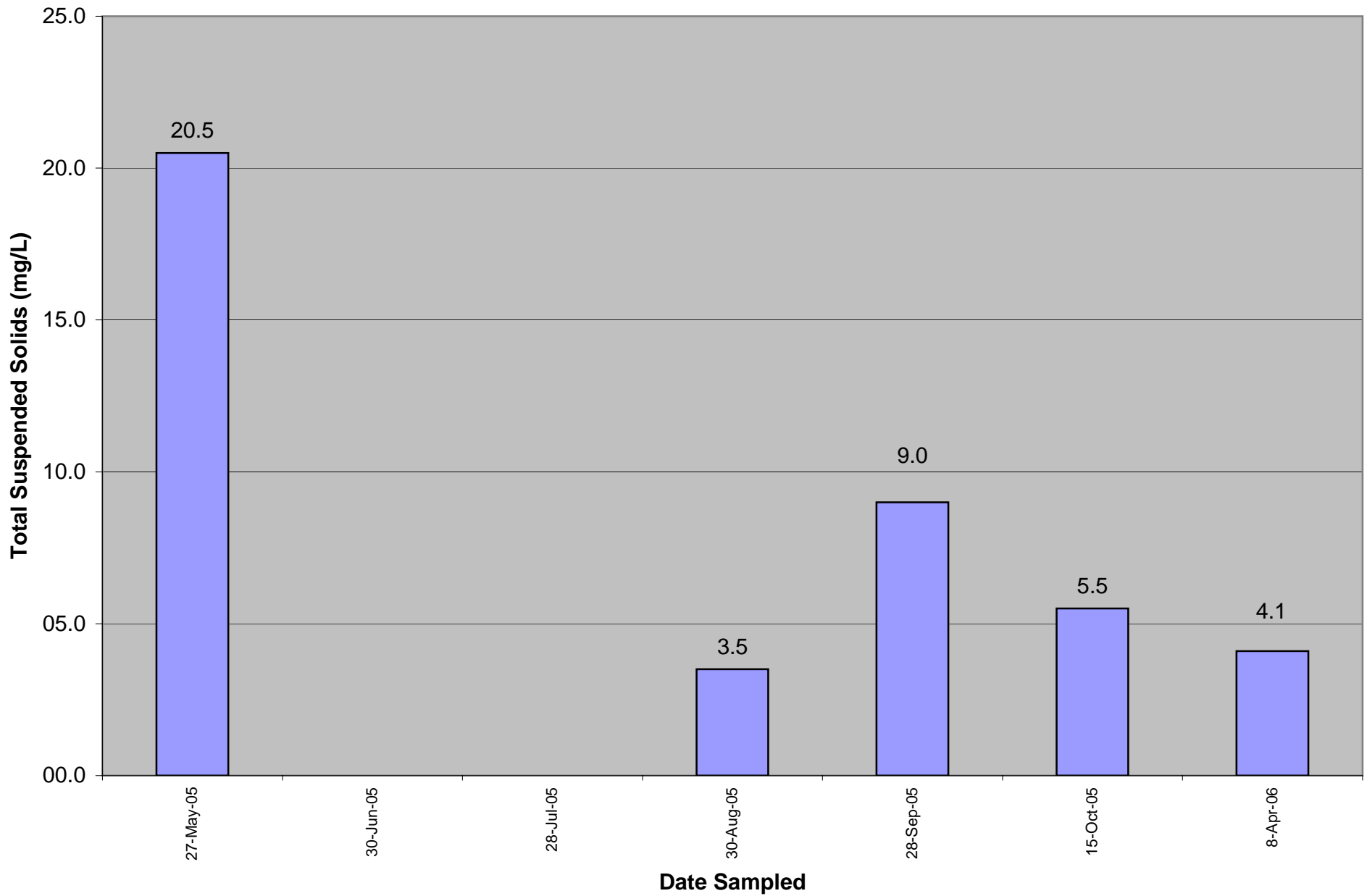
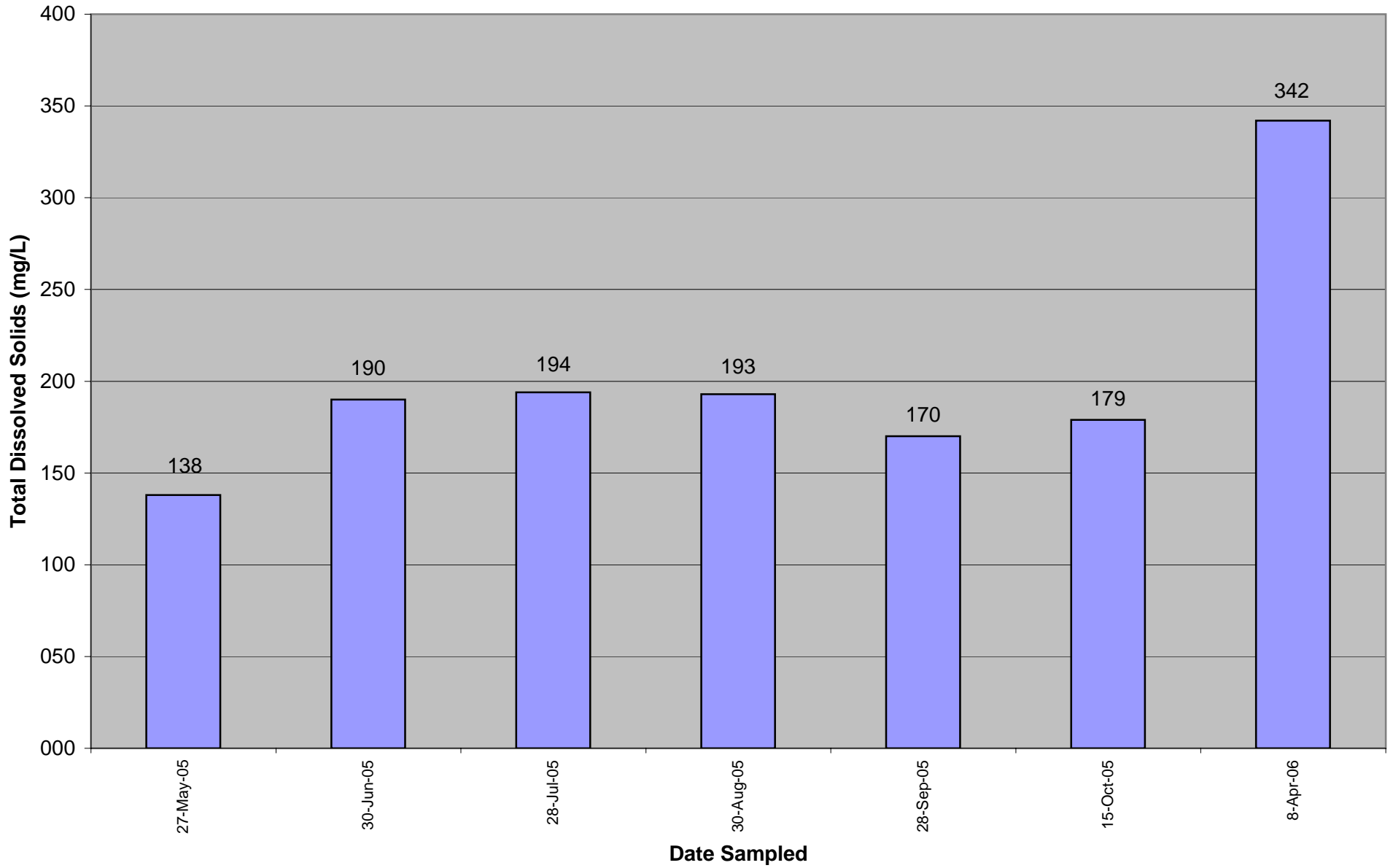


Figure 6 Total Suspended Solids Measured at Station W2 Between May 2005 and April 2006



* Note - where no value is provided, levels are below detection.

Figure 7 Total Dissolved Solids Measured at Station W2 Between May 2005 and April 2006



2.1.3 W3 – Minto Creek at Dam Site

Sample station W3 is located approximately 8 km upstream of fish bearing waters. The CCME guidelines have been provided for reference; however, there is no licence requirement to meet these criteria.

The highest measurement for hardness at station W3 was measured in March 2006 at 236 mg/L, up from the previous measurement of 173 mg/L recorded in June 1995.

Total aluminum and iron concentrations are generally within the typical range for these parameters, with levels recorded above the CCME guideline for freshwater aquatic life. Between 1994 and 2006, total aluminum levels range between 0.0059 – 8.76 mg/L, and total iron ranges between BD – 16 mg/L. As with station W2, it is not unusual for background total aluminum and iron levels to exceed the guideline; however, total aluminum is for the most part, below the WUL discharge standard. Total aluminum levels measured between 2005 and 2006 are shown in Figure 8.

Total arsenic levels are below the CCME guideline (0.005 mg/L) (Figure 9). Total cadmium levels are below detection. Total chromium levels are also generally below detection (Figure 10). Total copper is generally above CCME guidelines, but still within the range observed between 1993 and 2006 (0.00171 – 0.073). For the most part, total copper is below the WUL discharge standard (0.01 mg/L). See Figure 11 for total copper levels measured between 2005 and 2006 at station W3. Total lead, molybdenum, nickel, and zinc levels are below CCME guidelines. Total mercury, selenium, silver, and thallium levels are generally below detection.

Dissolved aluminum, arsenic, cadmium, chromium, lead, mercury, molybdenum, nickel, selenium, silver, thallium, and zinc levels are generally either below detection or below CCME guidelines. Similar to previous years, dissolved copper levels tend to exceed CCME guidelines. Dissolved iron levels occasionally exceed the CCME guideline, which is not unusual for this parameter.

Levels recorded for pH were within the range specified by CCME and the WUL discharge standard (6.5 to 9.0).

For this reporting period, the highest level of total suspended solids occurred on July 29, 2005 (25.7 mg/L). For the most part, total suspended solids levels are below the WUL discharge standard (15

mg/L) during the reporting period (Figure 12). The highest level of total dissolved solids was recorded on April 8, 2006 (288 mg/L), while other measurements range between 141 and 224 mg/L (Figure 13).

Total alkalinity is generally higher than in previous years, with the highest level recorded on April 8, 2006 (190 mg/L).

Total sulphate is within the typical range in 2005. The highest total sulphate level was recorded on April 8, 2006 (58.1 mg/L).

While not near to exceeding the CCME guideline for ammonia, the highest levels at W3 were recorded during 2005 and 2006. No ammonium nitrate was used at the site during this time.

Nitrogen-nitrate levels appear mainly to be within the typical range, however, the highest level of nitrogen-nitrate was recorded on March 2, 2006 (1.65 mg/L). Nitrogen-nitrite levels are either below detection or the CCME guideline.

Dissolved organic carbon was first measured in April 2006 and ranged between 9.91 and 14.0 mg/L. Total organic carbon was also first measured in April 2006 and ranged between 10.6 and 51.9 mg/L.

Figure 8 Total Aluminum Measured at Station W3 Between May 2005 and April 2006

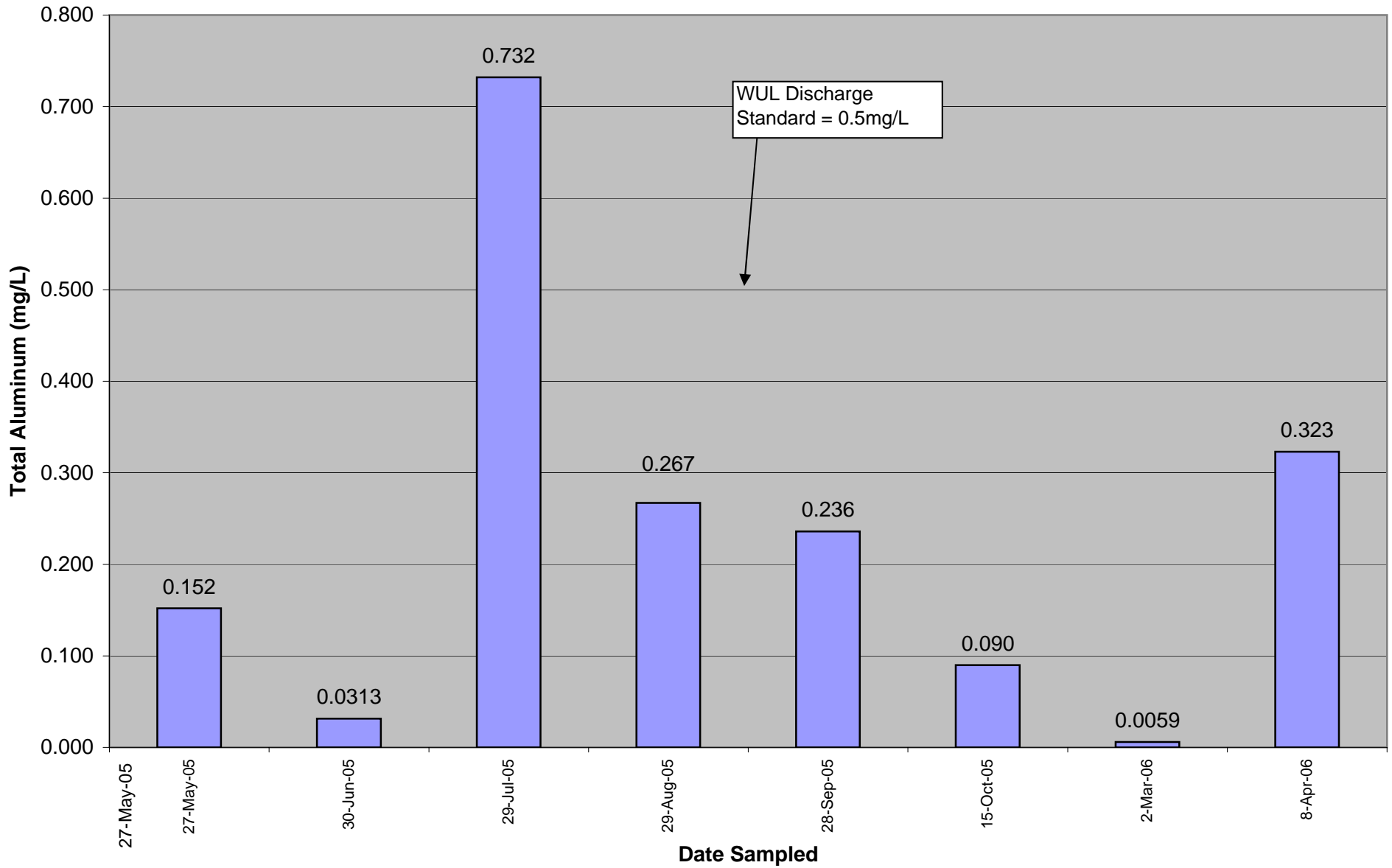
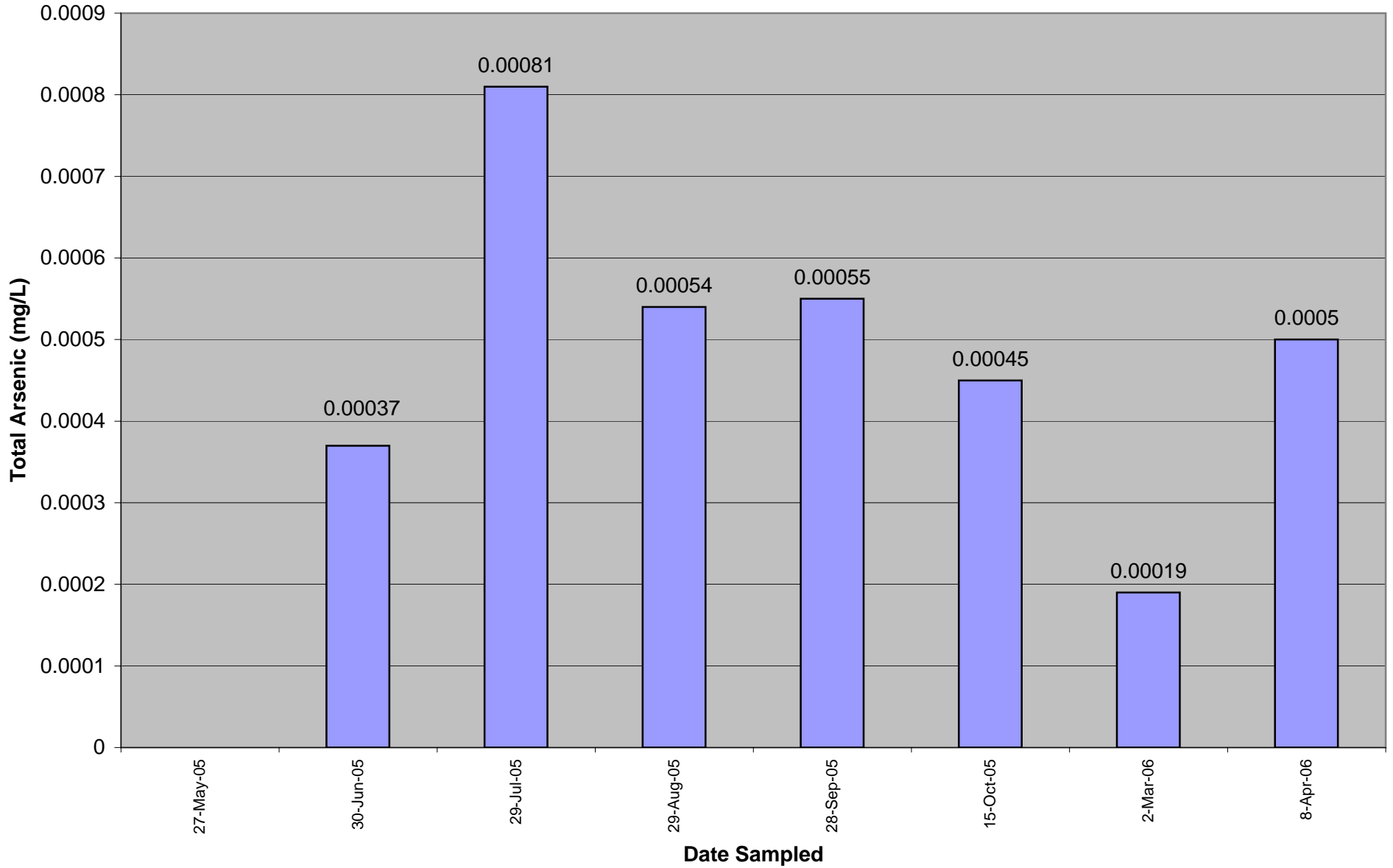
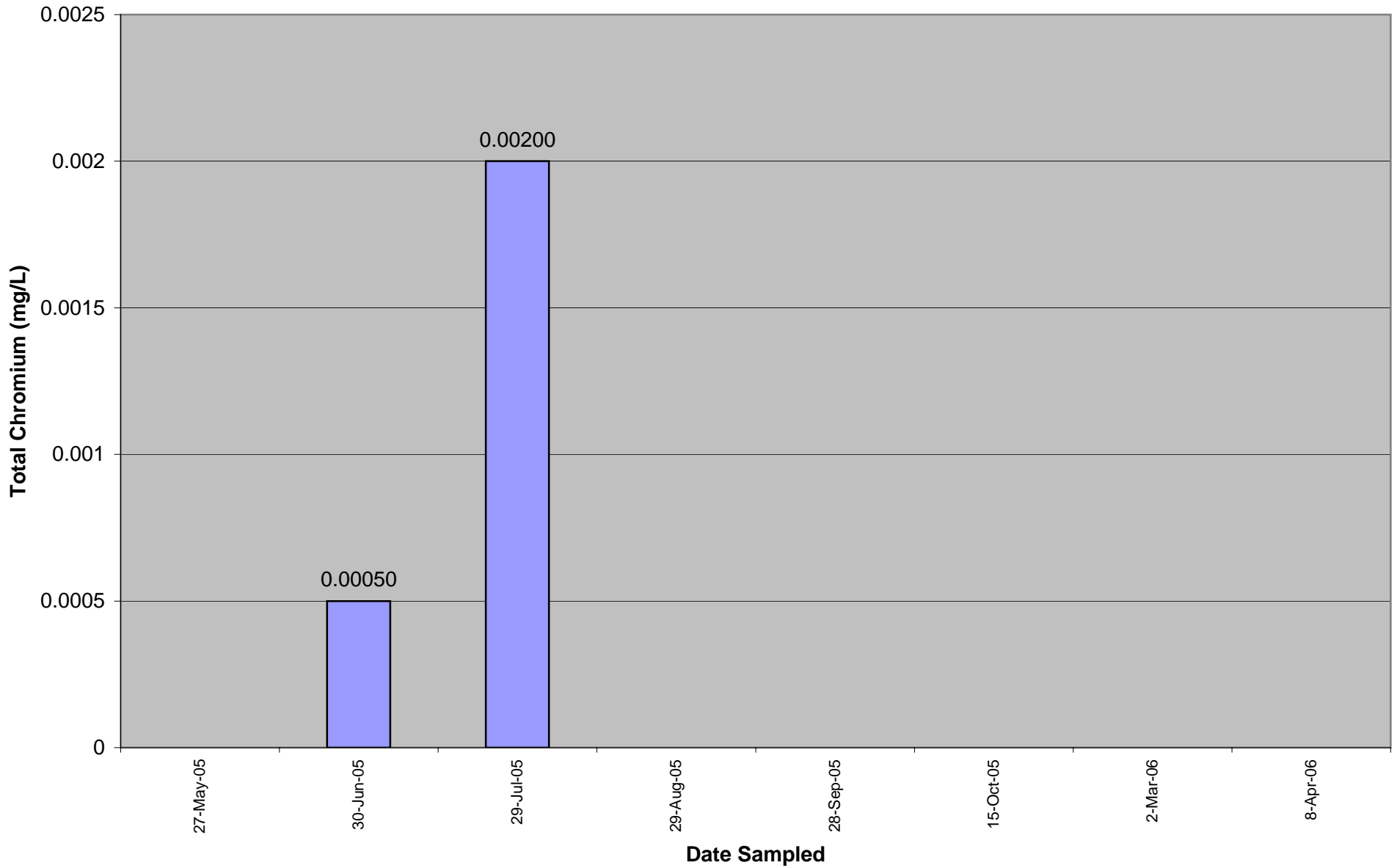


Figure 9 Total Arsenic Measured at Station W3 Between May 2005 and April 2006



* Note - where no value is provided, levels are below detection.

Figure 10 Total Chromium Measured at Station W3 Between May 2005 and April 2006



* Note - where no value is provided, levels are below detection.

Figure 11 Total Copper Measured at Station W3 Between May 2005 and April 2006

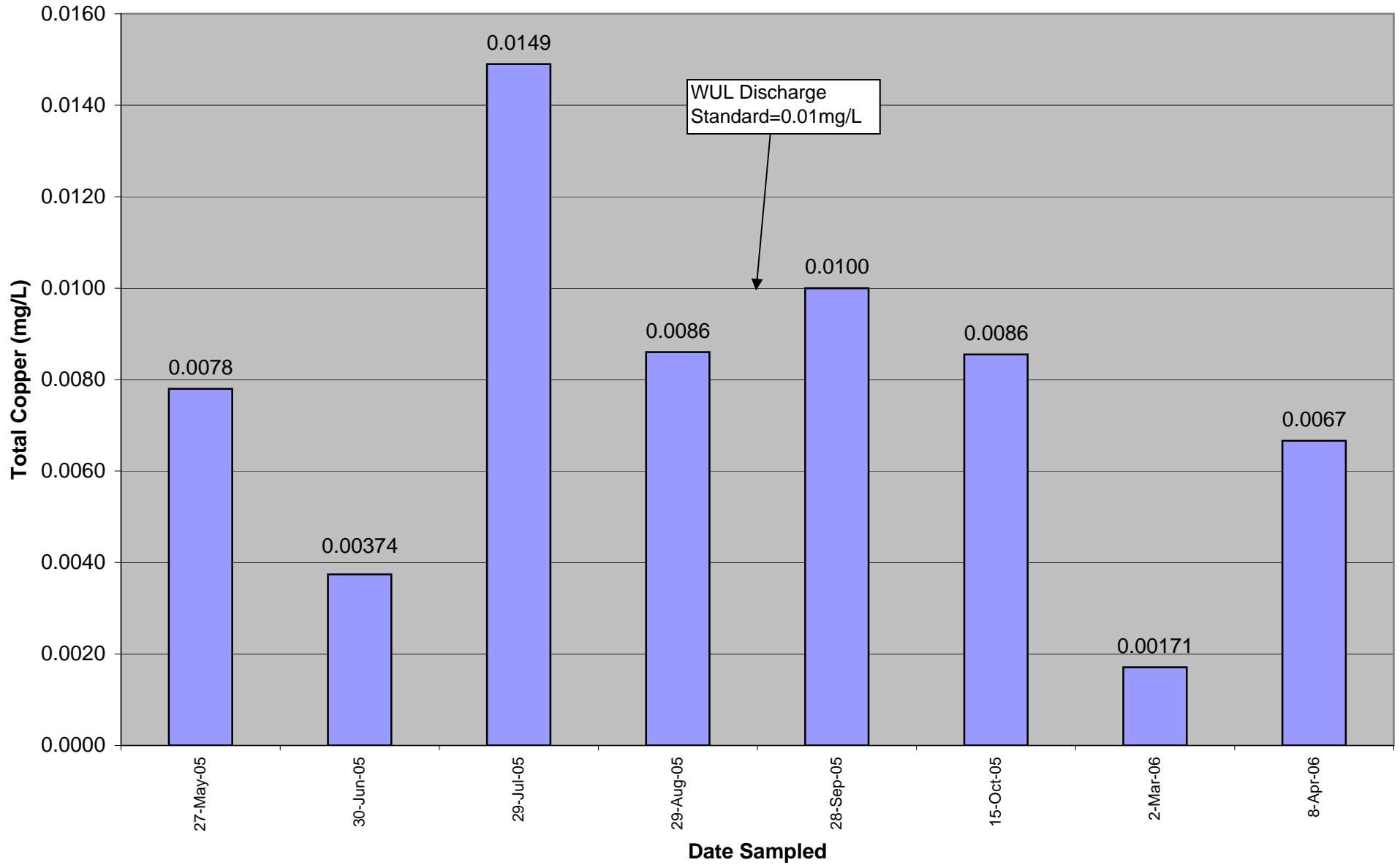
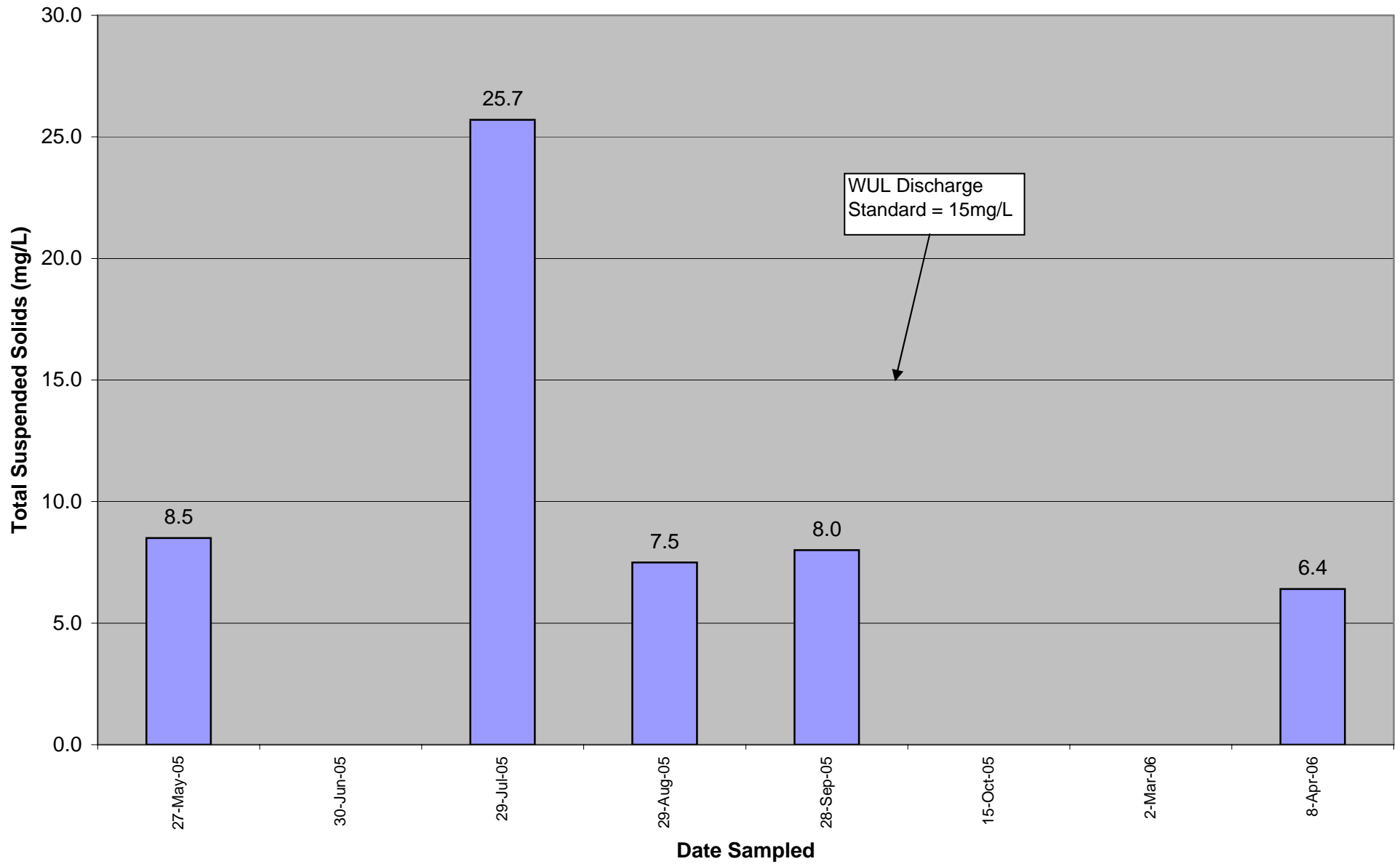
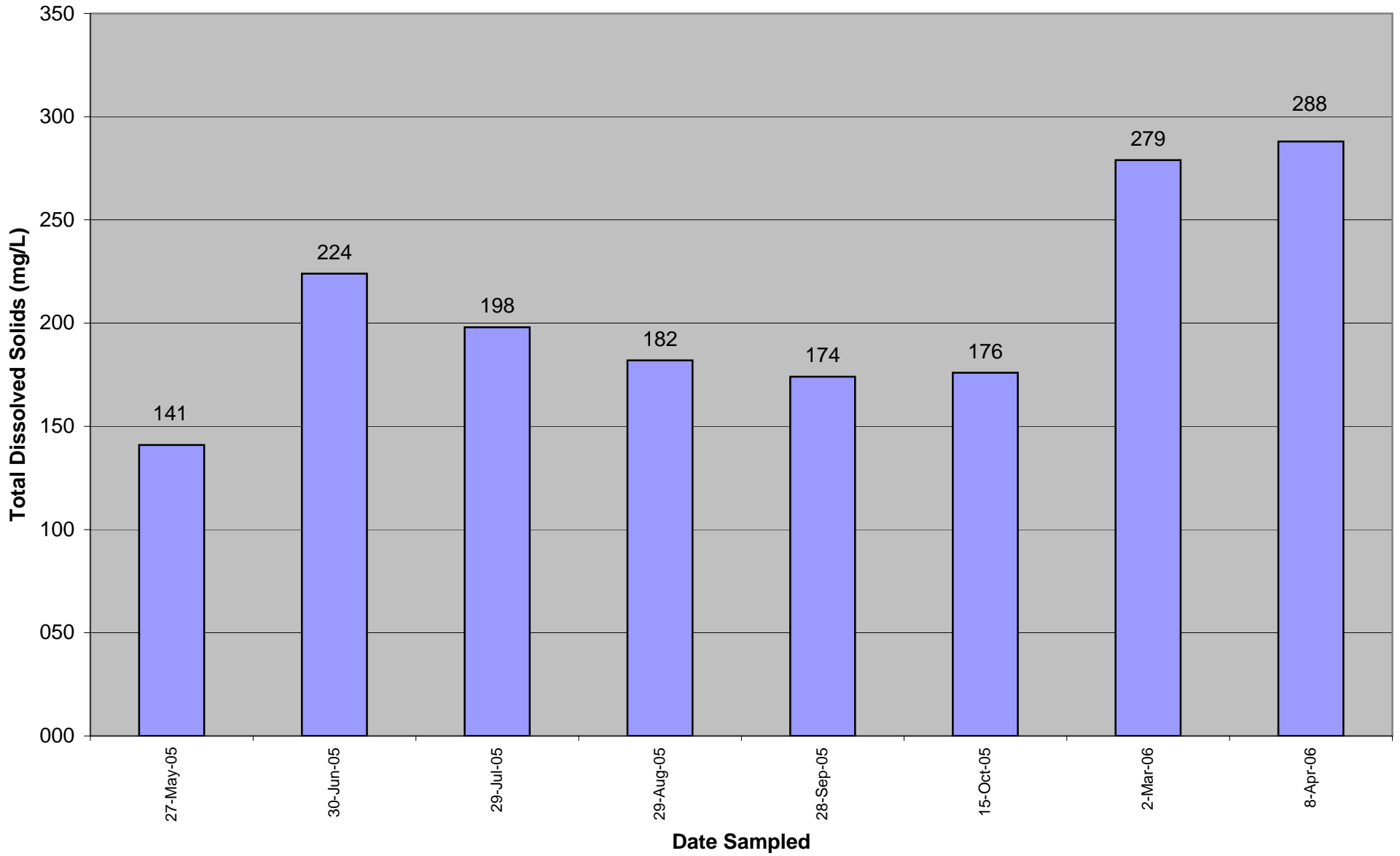


Figure 12 Total Suspended Solids Measured at Station W3 Between May 2005 and April 2006



* Note - where no value is provided, levels are below detection.

Figure 13 Total Dissolved Solids Measured at Station W3 Between May 2005 and April 2006



2.1.4 *Groundwater Piezometer P93-E – Pit Area*

Sample station P93-E is located approximately 8 km upstream of fish bearing waters. The CCME guidelines for freshwater aquatic life have been provided for reference; however, there is no licence requirement to meet these criteria.

At station P93-E hardness is within normal range for this parameter (115 – 323 mg/L). Total aluminum, arsenic, and molybdenum levels are below the CCME guidelines for freshwater aquatic life. Total cadmium, chromium, lead, mercury, nickel, selenium, silver, and thallium levels are below detection. Total zinc levels were either undetectable or below the CCME guideline. Total copper levels occasionally exceed the CCME guideline, which is not unusual for this parameter. As in previous years, total iron levels consistently exceed the CCME guideline.

Dissolved aluminum, copper, lead, and zinc levels are either below detection or below CCME guidelines. Dissolved arsenic and molybdenum levels are below CCME guidelines. Dissolved cadmium, chromium, mercury, nickel, selenium, silver, thallium levels are below detection. As in previous years, dissolved iron levels consistently exceed the CCME guideline.

Levels recorded for pH were within the range specified by CCME (6.5 – 9.0).

Total suspended solids levels were barely detectable or below detection. Total dissolved solids are within the typical range for this station.

Total alkalinity levels in 2005/2006 are within the typical ranges for this station (145 – 187 mg/L). Total sulphate levels are also within the typical ranges for this station (125 – 206 mg/L).

Ammonia levels are below detection or well below the CCME guideline. Nitrogen-nitrate and nitrogen-nitrite levels are below detection.

2.1.5 *Groundwater Piezometer P94-20 – North Abutment of Dam*

As with groundwater piezometer P93-E, the CCME guidelines for freshwater aquatic life have been provided for reference; however, there is no licence requirement to meet these criteria.

At station P94-20 hardness ranges between 154 – 172 mg/L in 2005/2006 which is slightly higher than levels recorded between 1994 and 2004, which range between 65 – 165 mg/L. Total aluminum,

arsenic, copper, lead, molybdenum, and zinc levels were either below detection or below CCME guidelines. Total cadmium, chromium, iron, mercury, nickel, selenium, silver, thallium levels are below detection.

Dissolved aluminum, arsenic, lead, molybdenum, nickel, and zinc levels are either below detection or below CCME guidelines. Dissolved chromium, iron, mercury, selenium, silver, and thallium levels are below detection. Dissolved cadmium levels are below detection, except in May 2005 when levels slightly exceeded the CCME guideline. Dissolved copper levels are either below detection or below the CCME guideline except for May 2005, when the guideline was exceeded.

Levels recorded for pH were within the range specified by CCME (6.5 – 9.0).

Total suspended solids are below detection levels. Total dissolved solids are within the typical range for this station (135 – 212 mg/L).

Total alkalinity levels in 2005/2006 are within the typical ranges for this station (102 – 154 mg/L). Total sulphate levels are also within the typical range for this station (8.2 – 35.3 mg/L); however, there seems to be an increasing trend in sulphate levels since 1994.

Ammonia levels are below detection or below the CCME guideline. Nitrogen-nitrate levels are within the typical range for this station (0.496 – 0.8 mg/L). Nitrogen-nitrite levels are below detection or below the CCME guideline (0.06 mg/L).

3.0 FLOW MONITORING

Minto Creek site surveys are found in Appendix B and contain details on flow measurements. The following table presents a summary of flow data collected from May to October 2005. Flow volume measurements were taken using a Price Velocity meter at some stations, while estimates based on measured flows were made for the other stations.

Table 3 Flow Volume Measurements (L/s)

Sample Station	Date					
	27-May-05	30-Jun-05	28/29-July-05	29/30-Aug-05	28/29-Sept-05	15/16-Oct-05
W1	0.097*	0.012*	0.011	0.061	0.118	0.054
W2	0.097	0.012	0.011	0.061	0.111	0.061
W3	0.046	0.008	0.014	0.017	0.022	0.020
W6	0.009 - 0.012*	0.002*	0.005*	0.005*	0.005*	0.003*
W7	0.010 - 0.015*	0.005*	0.005*	0.010*	0.010*	0.005*
W8	0.010 - 0.015*	0.005*	0.007*	0.005*	0.005*	0.003*
W9	0.021	0.010*	0.015*	0.010*	0.007*	0.010*
W10	-	<0.001*	<0.001*	<0.001*	<0.001*	<0.001*

* Estimated flow.

During the May sample event, Minto Creek was in decreasing water level stage following spring freshet, which occurred around mid-May. By June and July, flows had decreased substantially, approaching typical late summer low flow. In July, flow at W1 was measured on the 28th while flow was measured at W3 on the 29th. After measurements were collected on the 28th a considerable amount of rain fell before measurements were collected on the 29th. Interpretation of flows in the upper stations (W3, W6, W7 and W8) should consider increasing flows due to precipitation. Flows increased by the August and September sampling events. Flow decreased somewhat by October, as sites were under “ice effect” during this survey.

4.0 WATER LEVEL – GROUNDWATER WELLS

Groundwater piezometers were purged with a Waterra pump prior to sampling. A summary of static water levels for the two groundwater wells is provided in the following table. Further information is contained within the Minto Creek Site Surveys located in Appendix B.

Table 4 Flow Volume Measurements (cm/s)

Date	P93-E		P94-20	
	Start	Completion	Start	Completion
27-May-05	26.01	44.84	15.30	15.20
30-Jun-05	25.66	47.75	15.68	15.72
28/29-July-05	26.65	48.88	15.72	15.88
29/30-Aug-05	26.63	45.43	15.70	16.21
28/29-Sept-05	25.84	44.97	15.68	15.70
15/16-Oct-05	25.66	46.32	15.71	15.74

5.0 SITE ACTIVITIES

As per Clause 12 of the WUL, a detailed record of any major maintenance work carried out on any physical works where that maintenance may have an impact on water quality. As such the following sections summarize site activities between May 2005 and April 2006.

5.1 YUKON RIVER BARGE LANDING MAINTENANCE

In July 2005, fill was added to the east bank of the Yukon River barge landing. Notification for this work was sent to the Yukon Water Board, Yukon Government Water Resources, and Department of Fisheries and Oceans on July 12, 2005.

5.2 CAMP RETROFIT

In July and August 2005 the Minto camp was retrofitted and re-opened so that workers could be accommodated at the site, in support of MintoEx exploration programs.

5.3 FUEL TANK INSTALLATION

Two diesel fuel tanks (capacities 9,150 L and 50,000 L) were installed at the Minto Property in the summer of 2005. Another 400,000 L of diesel storage capacity was added to the site in February 2006. All tanks are double walled envirotanks.

5.4 WORK ON ACCESS ROADS AND TRAILS

In September 2005, approximately 5 km of access roads were rehabilitated and approximately 2.5 km of trails were constructed to support the drill programs.

5.5 BIG CREEK BRIDGE INSPECTION

On September 7, 2005 a site inspection was performed at the Big Creek Bridge crossing and road stabilization measures west of the bridge, in accordance with Type B WUL MS04-227. A Site Inspection Report was submitted to the Yukon Water Board on February 20, 2006, as required by the Type B WUL.

5.6 GEOTECHNICAL PROGRAM

In late September 2005 a geotechnical program to excavate approximately ten testpits occurred in the area of the proposed overburden dump area. This information was reported by EBA Engineering Consultants in the report entitled “Geotechnical Design, Ice-Rick Overburden Dump, Minto Mine, Minto, Yukon Territory” and filed with the Yukon Water Board on January 30, 2006.

5.7 EXPLORATION DRILL PROGRAMS

Two exploration drill programs were executed under Mining Land Use Approval LQ00004 at the Minto property during the reporting period. Diesel and propane were hauled to the site to support the drill programs.

5.7.1 Summer 2005

The summer 2005 exploration drill program at the Minto property took place between August and October. A Schedule 3 – Notice of Water Use/Waste Deposit without a Licence was submitted to the YWB. Approximately 55 m³/day of water was withdrawn from Minto Creek to support the program. No water was returned directly to watercourses.

5.7.2 *Winter 2006*

The winter 2006 exploration drill program at the Minto property took place between January and March 2006.

5.8 PRE-CONSTRUCTION MOBILIZATION

In February and March 2006 equipment was mobilized to the Minto property and assembled in anticipation of the upcoming construction season. Snow clearing and site grubbing activities occurred during the month of March. Work was done on the construction camp and access road.

5.9 CONSTRUCTION ACTIVITIES

Construction activities commenced at the Minto site in April 2006. Notification to this effect was provided to the Yukon Water Board on April 18, 2006.

5.10 SEDIMENT CONTROL ACTIVITIES

Major effort went into sediment control activities during spring breakup in 2006, as per the Phase I Water Treatment Contingency Plan submitted to the YWB in March 2006. Site activities were undertaken as follows:

- Full time monitoring by environmental technicians;
- Daily inspection and field measurements of total suspended solids and copper levels within all water channels;
- Construction of numerous catch basins in the stream channel;
- Use of flocculant to settle suspended solids;
- Development of diversion weirs, sediment traps, and other control structures; and
- Daily inspection of control structures.

Generally, these activities were effective in controlling suspended solid levels naturally occurring in Minto Creek during spring freshet conditions.

5.11 SITE INSPECTIONS

Clause 87 of the WUL requires semi annual inspection of the site during Interim Closure. Table 5 lists the facilities inspected, a description of repairs and/or upgrading undertaken, an explanation of

repairs/upgrading identified as required but not completed, and an identification of additional work to be undertaken in the next year.

Table 5 Site Inspection Summary

Facility Inspected	Date Inspected	Repairs/Upgrading	Upcoming Work Planned
Barge Landing at Yukon River	June 30/05	Fill added to east bank.	Normal maintenance activities to the ramps in 2006.
Access Road	June 30/05	~5 km access road rehabilitation (Sept/05).	Grading and maintenance activities in 2006.
Surface Drainages (ditches, culverts)	June 30/05		Inspect & maintain.
Precautionary Signage	June 30/05		In place – additional signs re radio control.
Mill & Camp Sites (buildings, equipment, infrastructure)	June 30/05	Camp retrofit; fuel tank installations.	

6.0 ADDITIONAL WUL REQUIREMENTS

6.1 INTERIM CLOSURE PLAN

Clause 85 of the WUL requires an annual review and update of the Interim Closure Plan. No revisions have been made to the plan as construction at the Minto Property just started this year. A revised plan will be prepared at least six months prior to mine start up, as per the Quartz Mining Licence.

6.2 SPILL CONTINGENCY PLAN

Clause 13 of the WUL requires an annual review of the Spill Contingency Plan, and a summary of the review including any revisions to the plan. The Spill Contingency Plan has been reviewed and the following updates are proposed:

- update contact information;
- update figures;
- update availability and location of emergency equipment;
- add MSDS for sodium hydroxide;
- remove outdated Appendix 2 – Letter of Understanding; and
- update Appendix 4 – Acts and Regulations.

A revised Spill Contingency Plan is being prepared and will be submitted under separate cover.

6.3 ACID-BASE ACCOUNTING PROGRAM

Clause 26 of the WUL requires submission of the results of the Acid-Base Accounting program that was used to determine construction materials. An Acid-Base Accounting program was not carried out as no new materials are being used for construction.

7.0 CLOSURE

Access Consulting Group¹ (ACG) of Whitehorse, Yukon, has prepared this Annual Report on behalf of MintoEx. We trust this document fulfills your present requirements. If you have any questions or require further details, please contact the undersigned.

Prepared by:

ACCESS CONSULTING GROUP



Dan D. Cornett, B.Sc., P.Biol., CCEP
Principal

¹ Access Consulting Group is a registered trade name for Access Mining Consultants Ltd.

APPENDIX A

**Water Quality Data Summary for W2, W3, P93-E and P94-20
(May 2005 to April 2006)**

Sample ID	Sample Station W2							Detection Limit ²	WUL QZ96-006 Discharge Standards	CCME Guidelines Water: Freshwater Aquatic Life
	Minto Creek at Lower Road Crossing									
Sample Site Description	27-May-05	30-Jun-05	28-Jul-05	30-Aug-05	28-Sep-05	15-Oct-05	8-Apr-06			
Date Sampled	JG, DG	JG	JG, DC	JG		JG				
Sampled by										
Parameter ¹										
Physical Tests										
Conductivity	198	287	305	268	243	249	519	2.0		
Total Dissolved Solids	138	190	194	193	170	179	342	10		
Hardness	99.8		153	138	134	137		0.54		
pH (Lab)	8.06	8.17	8.01	8.26	7.90	8.11	8.25	0.010	6.5 - 9.0	6.5 - 9.0
pH (Field)							8.10		6.5 - 9.0	6.5 - 9.0
Total Suspended Solids (Lab)	20.5	<3.0	<3.0	3.5	9.0	5.5	4.1	3.0	15.0	
Total Suspended Solids (On Site Hach)							5.4			
Dissolved Anions										
Alkalinity-Total CaCO3	89.3	140	146	143	115	120	261	2.0		
Bromide Br							<0.050			
Chloride Cl	<0.50	1.23	0.66	0.53	0.72	0.88	1.50	0.50		
Fluoride F							0.75			
Sulphate SO4	12.8	22.1	19.0	12.6	11.6	14.0	43.6	0.50		
Nutrients										
Ammonia Nitrogen N	0.026	<0.020	<0.020	0.029	<0.020	<0.020	0.01	0.020	1.0	1.04 - 2.33 ³
Nitrate Nitrogen N	0.0565	0.0621	0.0124	0.0141	0.0458	0.133	0.076	0.050		
Nitrite Nitrogen N	0.0015	<0.0010	<0.0010	<0.0010	0.0010	<0.0010	0.0012	0.0010		0.06
Cyanides										
Total Cyanide CN		<0.0050	<0.0050	0.0053	0.0106	0.0101		0.0050		
Total Metals (Trace)										
Aluminum T-Al	0.362	0.0111	0.0127	0.0475	0.133	0.0972	0.1490	0.0010	0.5	0.005 - 0.1
Antimony T-Sb	<0.00050	<0.00010	<0.00010	<0.00050	<0.00050	<0.00010	<0.00010	0.00010		
Arsenic T-As	0.00075	0.00045	0.00046	0.00063	0.00069	0.00061	0.00086	0.00010		0.005
Barium T-Ba	0.058	0.0569	0.0576	0.060	0.057	0.0528	0.0886	0.000050		
Beryllium T-Be	<0.0010	<0.00050	<0.00050	<0.0010	<0.0010	<0.00050	<0.00050	0.00050		
Bismuth T-Bi		<0.00050	<0.00050			<0.00050	<0.00050	0.00050		
Boron T-B	<0.10	<0.010	<0.010	<0.10	<0.10	<0.010	<0.010	0.010		
Cadmium T-Cd	<0.000050	<0.000050	<0.000050	<0.000017	<0.000017	<0.000050	<0.000050	0.000050		0.000017
Calcium T-Ca	24.8	37.5	39.1	35.4	34.3	34.1	66.0	0.050		
Chromium T-Cr	0.0012	<0.00050	<0.00050	<0.0010	<0.0010	0.00059	0.00085	0.00050		0.001 ⁴
Cobalt T-Co	0.00043	<0.00010	<0.00010	<0.00030	<0.00030	0.00018	0.00018	0.00010		
Copper T-Cu (Lab)	0.0049	0.00207	0.00245	0.0026	0.0039	0.00404	0.00150	0.00010	0.01	0.002 - 0.004
Copper (On Site Hach)							0.00070			
Iron T-Fe	0.778	0.052	0.079	0.373	0.674	0.436	0.206	0.030	1.0	0.3
Lead T-Pb	<0.00050	<0.000050	<0.000050	<0.00050	<0.00050	0.000078	0.000088	0.000050	0.002	0.001 - 0.007
Lithium T-Li	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050		
Magnesium T-Mg	8.37	12.5	13.1	11.6	11.0	10.8	28.3	0.10		
Manganese T-Mn	0.0505	0.00785	0.0140	0.0250	0.0543	0.0368	0.0485	0.000050	0.2	
Mercury T-Hg	<0.000020			<0.000020	<0.000020			0.000020		0.0001
Molybdenum T-Mo	<0.0010	0.00103	0.00134	0.0011	<0.0010	0.000916	0.001340	0.000050		0.073
Nickel T-Ni	0.0026	0.00105	0.00107	0.0016	0.0020	0.00164	0.00054	0.00050	0.065	0.025 - 0.15
Phosphorous T-P		<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	0.30		
Potassium T-K	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	4.6	2.0		
Selenium T-Se	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010		0.001
Silicon T-Si		5.48	5.32			5.95	10.80	0.050		
Silver T-Ag	<0.000020	<0.000010	<0.000010	<0.000020	<0.000020	<0.000010	<0.000010	0.000010		0.0001
Sodium T-Na	4.8	8.7	8.7	6.0	6.0	6.0	17.7	2.0		
Strontium T-Sr		0.304	0.338			0.267	0.565	0.00010		
Thallium T-Tl	<0.00020	<0.00010	<0.00010	<0.00020	<0.00020	<0.00010	<0.00010	0.00010		0.0008
Tin T-Sn	<0.00050	<0.00010	<0.00010	<0.00050	<0.00050	<0.00010	<0.00010	0.00010		
Titanium T-Ti	0.016	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010		
Uranium T-U	0.00054	0.00108	0.00136	0.00082	0.00059	0.000756	0.002720	0.000010		
Vanadium T-V	<0.030	<0.0010	<0.0010	<0.030	<0.030	0.0010	<0.0010	0.0010		
Zinc T-Zn	<0.0050	<0.0010	<0.0010	<0.0050	<0.0050	0.0011	0.0020	0.0010	0.03	0.03
Dissolved Metals (Trace)										
Aluminum D-Al	0.0163	0.0073	0.0071	0.0119	0.0141	0.0129		0.0010		
Antimony D-Sb	<0.00050	<0.00010	<0.00010	<0.00050	<0.00050	<0.00010	<0.00010	0.00010		
Arsenic D-As	<0.00050	0.00044	0.00044	0.00058	0.00059	0.00053		0.00010		
Barium D-Ba	0.050	0.0574	0.0604	0.059	0.055	0.0492		0.000050		
Beryllium D-Be	<0.0010	<0.00050	<0.00050	<0.0010	<0.0010	<0.00050		0.00050		
Bismuth D-Bi		<0.00050	<0.00050			<0.00050		0.00050		
Boron D-B	<0.10	<0.010	<0.010	<0.10	<0.10	<0.010		0.010		
Cadmium D-Cd	<0.000050	<0.000050	<0.000050	<0.000017	<0.000017	<0.000050		0.000050		
Calcium D-Ca	25.6	36.9	39.6	35.2	35.2	35.9		0.050		
Chromium D-Cr	<0.0010	<0.00050	<0.00050	<0.0010	<0.0010	<0.00050		0.00050		
Cobalt D-Co	<0.00030	<0.00010	<0.00010	<0.00030	<0.00030	<0.00010		0.00010		
Copper D-Cu	0.0033	0.00210	0.00208	0.0024	0.0025	0.00271		0.00010		
Iron D-Fe	0.164	0.039	0.050	0.234	0.338	0.246		0.030		
Lead D-Pb	<0.00050	<0.000050	<0.000050	<0.00050	<0.00050	<0.000050		0.000050		
Lithium D-Li	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		0.0050		
Magnesium D-Mg	8.72	12.3	13.2	11.7	11.2	11.5		0.10		
Manganese D-Mn	0.00507	0.00684	0.0140	0.0152	0.0341	0.0208		0.000050		
Mercury D-Hg	<0.000020			<0.000020	<0.000020			0.000020		
Molybdenum D-Mo	<0.0010	0.00108	0.00127	0.0010	<0.0010	0.000859		0.000050		
Nickel D-Ni	0.0015	0.00102	0.00112	0.0015	0.0017	0.00141		0.00050		
Phosphorous D-P		<0.30	<0.30			<0.30		0.30		
Potassium D-K	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0		2.0		
Selenium D-Se	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		0.0010		
Silicon D-Si		5.40	5.31			6.19		0.050		
Silver D-Ag	<0.000020	<0.000010	<0.000010	<0.000020	<0.000020	<0.000010		0.000010		
Sodium D-Na	5.0	8.6	8.7	7.0	6.2	6.3		2.0		
Strontium D-Sr		0.307	0.341			0.256		0.00010		
Thallium D-Tl	<0.00020	<0.00010	<0.00010	<0.00020	<0.00020	<0.00010		0.00010		
Tin D-Sn	<0.00050	<0.00010	<0.00010	<0.00050	<0.00050	<0.00010		0.00010		
Titanium D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010		0.010		
Uranium D-U	0.00110	0.00110	0.00127	0.00077	0.00055	0.000713		0.000010		
Vanadium D-V	<0.0010	<0.0010	<0.0010	<0.030	<0.030	<0.0010		0.0010		
Zinc D-Zn	0.0015	0.0015	0.0011	<0.0050	<0.0050	<0.0010		0.0010		
Organic Parameters										
Dissolved Organic Carbon C								0.5		
Total Inorganic Carbon C								0.5		
Total Organic Carbon C								0.5		
Radiological Parameters										
Radium-226		<0.0050	<0.0050	<0.0050	0.0070	<0.0050		0.0050		

Notes:
¹ All units are in mg/L unless otherwise indicated
² Detection limit from October 2005 results except Mercury which is from September 2005 results
³ Range is based on an average pH of 8.0 and a temperature range of 0 to 10°C
⁴ Based on guideline for Hexavalent chromium (Cr(VI))

Sample ID	Sample Station W3								Detection Limit ²	WUL QZ96-006 Discharge Standards	CCME Guidelines Water: Freshwater Aquatic Life
	Minto Creek at Dam Site										
	27-May-05	30-Jun-05	29-Jul-05	29-Aug-05	28-Sep-05	15-Oct-05	2-Mar-06	8-Apr-06			
Sample Site Description	JG, DG	JG	JG, DC	JG	JG	JG	JG	JG			
Parameter¹											
Physical Tests											
Conductivity	188	341	322	267	238	245	463	434	2.0		
Total Dissolved Solids	141	224	198	182	174	176	279	288	10		
Hardness	93.9		166	135	129	134.0	236		0.54		
pH (Lab)	7.99	8.22	8.06	8.24	7.99	8.08	7.31	8.28	0.010	6.5 - 9.0	6.5 - 9.0
pH (Field)								7.70		6.5 - 9.0	
Total Suspended Solids (Lab)	8.5	<3.0	25.7	7.5	8.0	<3.0	<3.0	6.4	3.0	15.0	
Total Suspended Solids (On Site Hach)								0.0			
Dissolved Anions											
Alkalinity-Total CaCO3	78.7	153	143	122	101	106.0	193	190.0	2.0		
Bromide Br								<0.050			
Chloride Cl	<0.50	0.86	<0.50	<0.50	<0.50	<0.50	6.20	1.58	0.50		
Fluoride F								0.336			
Sulphate SO4	19.7	45.5	29.6	25.5	23.9	24.7	50.4	58.1	0.50		
Nutrients											
Ammonia Nitrogen N	<0.020	<0.020	<0.020	0.042	<0.020	0.023	0.07	0.01	0.020	1.0	1.04 - 2.33 ³
Nitrate Nitrogen N	0.0121	0.0519	0.0284	<0.0050	0.0132	0.0393	1.6500	0.0640	0.0050		
Nitrite Nitrogen N	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0017	0.0010		0.06
Cyanides											
Total Cyanide CN		<0.0050	<0.0050	0.0091	0.0130	0.014	0.0087		0.0050		
Total Metals (Trace)											
Aluminum T-Al	0.152	0.0313	0.732	0.267	0.236	0.090	0.0059	0.323	0.0010	0.5	0.005 - 0.1
Antimony T-Sb	<0.00050	<0.00010	0.00010	<0.00050	<0.00050	<0.00010	<0.00010	<0.00010	0.00010		
Arsenic T-As	<0.00050	0.00037	0.00081	0.00054	0.00055	0.00045	0.00019	0.0005	0.00010		0.005
Barium T-Ba	0.042	0.0518	0.0667	0.060	0.055	0.049	0.0798	0.058	0.000050		
Beryllium T-Be	<0.0010	<0.00050	<0.00050	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	0.00050		
Bismuth T-Bi		<0.00050	<0.00050			<0.00050	<0.00050	<0.00050	0.00050		
Boron T-B	<0.10	<0.010	<0.010	<0.10	<0.10	<0.010	<0.010	<0.010	0.010		
Cadmium T-Cd	<0.000050	<0.000050	<0.000050	<0.000017	<0.000017	<0.000050	<0.000050	<0.000050	0.000050		0.000017
Calcium T-Ca	29.3	39.1	37.3	30.8	28.7	29.4	63.2	41.9	0.50		
Chromium T-Cr	<0.0010	0.00050	0.00200	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	0.00050		0.001 ⁴
Cobalt T-Co	<0.00030	<0.00010	0.00062	<0.00030	0.00030	0.00023	<0.00010	0.00023	0.00010		
Copper T-Cu (Lab)	0.0078	0.00374	0.0149	0.0086	0.0100	0.0086	0.00171	0.0067	0.00010	0.01	0.002 - 0.004
Copper (On Site Hach)								<0.00005			
Iron T-Fe	0.320	0.081	1.32	0.698	0.794	0.497	<0.030	0.354	0.030	1.0	0.3
Lead T-Pb	<0.00050	0.000292	0.000359	<0.00050	<0.00050	<0.00050	<0.00050	0.000212	0.000050	0.002	0.001 - 0.007
Lithium T-Li	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050		
Magnesium T-Mg	9.03	17.6	17.2	13.2	12.0	12.50	18.7	28.80	0.10		
Manganese T-Mn	0.0230	0.00840	0.0641	0.0806	0.120	0.1240	0.00158	0.0286	0.000050	0.2	
Mercury T-Hg	<0.000020		<0.000020	<0.000020	<0.000020			0.000020	0.000020		0.0001
Molybdenum T-Mo	0.0011	0.00163	0.00190	0.0014	0.0012	0.0013	0.00128	0.0027	0.000050		0.073
Nickel T-Ni	0.0017	0.00087	0.00257	0.0017	0.0018	0.0014	<0.00050	0.0005	0.00050	0.065	0.025 - 0.15
Phosphorus T-P		<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	0.30		
Potassium T-K	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.6	2.0		
Selenium T-Se	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010		0.001
Silicon T-Si		6.04	7.03			5.86	6.15	7.78	0.050		
Silver T-Ag	<0.000020	<0.000010	<0.000030	0.000027	0.000029	<0.000010	<0.000010	<0.000010	0.000010		0.0001
Sodium T-Na	4.9	12.1	9.4	7.8	7.1	7.0	10.5	18.1	2.0		
Strontium T-Sr		0.299	0.295			0.233	0.355	0.36	0.00010		
Thallium T-Tl	<0.00020	<0.00010	<0.00010	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	0.00010		0.0008
Tin T-Sn	<0.00050	<0.00010	0.00011	<0.00050	<0.00050	<0.00010	<0.00010	<0.00010	0.00010		
Titanium T-Ti	<0.010	<0.010	0.045	<0.010	<0.010	<0.010	<0.010	<0.010	0.010		
Uranium T-U	0.00035	0.00090	0.000778	0.00051	0.00039	0.00044	0.002770	0.00096	0.000010		
Vanadium T-V	<0.030	<0.010	0.0032	<0.030	<0.030	<0.0010	<0.0010	0.0015	0.0010		
Zinc T-Zn	<0.0050	<0.0020	<0.0070	<0.0050	<0.0050	<0.0010	0.0021	0.0031	0.0010	0.03	0.03
Dissolved Metals (Trace)											
Aluminum D-Al	0.0267	0.0080	0.0113	0.0184	0.0257	0.0223	0.0033		0.0010		
Antimony D-Sb	<0.00050	<0.00010	<0.00010	<0.00050	<0.00050	<0.00010	<0.00010	<0.00010	0.00010		
Arsenic D-As	<0.00050	0.00034	0.00041	<0.00050	<0.00050	0.00043	0.00020		0.00010		
Barium D-Ba	0.041	0.0507	0.0553	0.057	0.055	0.048	0.0794		0.000050		
Beryllium D-Be	<0.0010	<0.00050	<0.00050	<0.0010	<0.0010	<0.00050	<0.00050		0.00050		
Bismuth D-Bi		<0.00050	<0.00050			<0.00050	<0.00050		0.00050		
Boron D-B	<0.10	<0.010	<0.010	<0.10	<0.10	<0.010	<0.010		0.010		
Cadmium D-Cd	<0.000050	<0.000050	<0.000050	<0.000017	<0.000017	<0.000050	<0.000050		0.000050		
Calcium D-Ca	22.0	38.5	38.0	31.8	30.4	31.6	63.6		0.050		
Chromium D-Cr	<0.0010	<0.00050	<0.00050	<0.0010	<0.0010	<0.00050	<0.00050		0.00050		
Cobalt D-Co	<0.00030	<0.00010	0.00010	<0.00030	<0.00030	0.00016	<0.00010		0.00010		
Copper D-Cu	0.0066	0.00336	0.00478	0.0050	0.0057	0.0061	0.00163		0.00010		
Iron D-Fe	0.116	0.042	0.134	0.306	0.421	0.390	<0.030		0.030		
Lead D-Pb	<0.00050	0.000241	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050		0.000050		
Lithium D-Li	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		0.0050		
Magnesium D-Mg	9.48	17.4	17.3	13.6	12.8	13.40	18.6		0.10		
Manganese D-Mn	0.00940	0.00520	0.0311	0.0657	0.102	0.11200	0.00139		0.000050		
Mercury D-Hg	<0.000020		<0.000020	<0.000020	<0.000020				0.000020		
Molybdenum D-Mo	<0.0010	0.00163	0.00158	0.0013	0.0011	0.00122	0.00127		0.000050		
Nickel D-Ni	0.0014	0.00078	0.00115	0.0014	0.0014	0.0012	<0.00050		0.00050		
Phosphorus D-P		<0.30	<0.30	<0.30	<0.30	<0.30	<0.30		0.30		
Potassium D-K	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0		2.0		
Selenium D-Se	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		0.0010		
Silicon D-Si		5.99	5.96			6.16	6.08		0.050		
Silver D-Ag	<0.000020	<0.000010	<0.000010	<0.000020	<0.000020	<0.000010	<0.000010		0.000010		
Sodium D-Na	5.2	11.7	8.0	7.7	7.7	7.5	10.4		2.0		
Strontium D-Sr		0.297	0.279			0.2	0.355		0.00010		
Thallium D-Tl	<0.00020	<0.00010	<0.00010	<0.00020	<0.00020	<0.00010	<0.00010		0.00010		
Tin D-Sn	<0.00050	<0.00010	<0.00010	<0.00050	<0.00050	<0.00010	<0.00010		0.00010		
Titanium D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010		0.010		
Uranium D-U	0.00031	0.000903	0.000717	0.00045	0.00034	0.00042	0.002790		0.000010		
Vanadium D-V	<0.030	<0.010	<0.010	<0.030	<0.030	<0.0010	<0.0010		0.0010		
Zinc D-Zn	<0.0050	0.0116	0.0015	<0.0050	<0.0050	0.0018	0.0088		0.0010		
Organic Parameters											
Dissolved Organic Carbon C									0.5		
Total Inorganic Carbon C									0.5		
Total Organic Carbon C									0.5		
Radiological Parameters											
Radium-226		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050		0.0050		
Toxicity Testing¹											
96 Hour Trout LT50 Bioassay (hrs)											
Percent Survival											
48 Hour Daphnia magna LT50 (hrs)											
Percent Survival											
Notes											
¹											

Sample ID	Sample Station P93-E							Detection Limit ²	CCME Guidelines Water: Freshwater Aquatic Life
	Groundwater Piezometer Located in Pit Area								
Sample Site Description	27-May-05	30-Jun-05	29-Jul-05	29-Aug-05	28-Sep-05	15-Oct-05	2-Mar-06		
Date Sampled	JG, DG	JG	JG, DC	JG		JG			
Sampled by									
Parameter ¹									
Physical Tests									
Conductivity	639	631	640	617	615	602	611	2.0	
Total Dissolved Solids	418	429	414	409	415	408	389	10	
Hardness	268		274	276	274	272	269	0.54	
pH	8.09	7.97	7.81	8.19	8.10	7.66	7.92	0.010	6.5 - 9.0
Total Suspended Solids	3.0	<3.0	<3.0	<3.0	3.5	<3.0	<3.0	3.0	
Dissolved Anions									
Alkalinity-Total CaCO3	174	171	177	178	176	184	178	2.0	
Chloride Cl	0.70	0.99	0.62	0.67	0.69	0.68	0.64	0.50	
Sulphate SO4	166	168	158	159	154	158	143	0.50	
Nutrients									
Ammonia Nitrogen N	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.035	0.020	1.04 - 2.33 ³
Nitrate Nitrogen N	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	
Nitrite Nitrogen N	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	0.06
Cyanides									
Total Cyanide CN								0.0050	
Total Metals (Trace)									
Aluminum T-Al	0.0340	0.0024	0.0020	<0.0050	0.0204	0.0064	0.0032	0.0010	0.005 - 0.1
Antimony T-Sb	<0.00050	<0.00010	<0.00010	<0.00050	<0.00050	<0.00010	<0.00010	0.00010	
Arsenic T-As	0.00073	0.00082	0.00079	0.00076	0.00080	0.00078	0.00078	0.00010	0.005
Barium T-Ba	<0.020	0.00842	0.00847	<0.020	<0.020	0.00860	0.00786	0.000050	
Beryllium T-Be	<0.0010	<0.00050	<0.00050	<0.0010	<0.0010	<0.00050	<0.00050	0.00050	
Bismuth T-Bi		<0.00050	<0.00050			<0.00050	<0.00050	0.00050	
Boron T-B	<0.10	0.050	0.054	<0.10	<0.10	0.052	0.052	0.010	
Cadmium T-Cd	<0.000050	<0.000050	<0.000050	<0.000017	<0.000017	<0.000050	<0.000050	0.000050	0.000017
Calcium T-Ca	80.5	77.8	80.5	83.2	80.6	80.6	80.7	0.050	
Chromium T-Cr	<0.0010	<0.00050	<0.00050	<0.0010	<0.0010	<0.00050	<0.00050	0.00050	0.001 ⁴
Cobalt T-Co	<0.00030	0.00016	0.00018	<0.00030	<0.00030	0.00017	0.00017	0.00010	
Copper T-Cu	0.0124	0.00039	0.00020	<0.0010	0.00058	0.00105	0.00031	0.00010	0.002 - 0.004
Iron T-Fe	0.500	0.441	0.447	0.422	0.507	0.440	0.440	0.030	0.3
Lead T-Pb	<0.00050	<0.000050	<0.000050	<0.00050	<0.00050	<0.000050	<0.000050	0.000050	0.001 - 0.007
Lithium T-Li	0.0075	0.0071	0.0068	0.0068	0.0079	0.0068	0.0070	0.0050	
Magnesium T-Mg	16.8	16.7	17.2	17.2	17.4	16.4	16.9	0.10	
Manganese T-Mn	0.129	0.122	0.136	0.131	0.134	0.135	0.092	0.000050	
Mercury T-Hg	<0.000020			<0.000020	<0.000020			0.000020	0.0001
Molybdenum T-Mo	0.0108	0.0114	0.0120	0.0109	0.0116	0.0114	0.0108	0.000050	0.073
Nickel T-Ni	<0.0010	<0.00050	<0.00050	<0.0010	<0.0010	<0.00050	<0.00050	0.00050	0.025 - 0.15
Phosphorous T-P		<0.30	<0.30			<0.30	<0.30	0.30	
Potassium T-K	2.4	3.3	2.4	3.1	2.4	3.3	3.2	2.0	
Selenium T-Se	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	0.001
Silicon T-Si		6.88	6.22			6.61	6.98	0.050	
Silver T-Ag	<0.000020	<0.000010	<0.000010	<0.000020	<0.000020	<0.000010	<0.000010	0.000010	0.0001
Sodium T-Na	30.7	33.7	33.6	32.9	32.1	32.4	32.6	2.0	
Strontium T-Sr		1.45	1.49			1.51	1.3	0.00010	
Thallium T-Tl	<0.00020	<0.00010	<0.00010	<0.00020	<0.00020	<0.00010	<0.00010	0.00010	0.0008
Tin T-Sn	<0.00050	<0.00010	<0.00010	<0.00050	<0.00050	<0.00010	<0.00010	0.00010	
Titanium T-Ti	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	
Uranium T-U	0.00118	0.00116	0.00114	0.00109	0.00108	0.00113	0.00111	0.000010	
Vanadium T-V	<0.030	<0.0010	<0.0010	<0.030	<0.030	<0.0010	<0.0010	0.0010	
Zinc T-Zn	<0.0050	<0.0010	0.0013	<0.0050	<0.0050	<0.0010	0.0022	0.0010	0.03
Dissolved Metals (Trace)									
Aluminum D-Al	<0.0050	0.0024	<0.0010	<0.0050	<0.0050	0.0020	0.002	0.0010	
Antimony D-Sb	<0.00050	<0.00010	<0.00010	<0.00050	<0.00050	<0.00010	<0.00010	0.00010	
Arsenic D-As	0.00073	0.00082	0.00079	0.00075	0.00077	0.00077	0.00078	0.00010	
Barium D-Ba	<0.020	0.00842	0.00882	<0.020	<0.020	0.00842	0.00803	0.000050	
Beryllium D-Be	<0.0010	<0.00050	<0.00050	<0.0010	<0.0010	<0.00050	<0.00050	0.00050	
Bismuth D-Bi		<0.00050	<0.00050			<0.00050	<0.00050	0.00050	
Boron D-B	<0.10	0.049	0.057	<0.10	<0.10	0.051	0.05	0.010	
Cadmium D-Cd	<0.000050	<0.000050	<0.000050	<0.000017	<0.000017	<0.000050	<0.000050	0.000050	
Calcium D-Ca	79.8	78.9	81.4	82.4	80.6	81.2	80.1	0.050	
Chromium D-Cr	<0.0010	<0.00050	<0.00050	<0.0010	<0.0010	<0.00050	<0.00050	0.00050	
Cobalt D-Co	<0.00030	0.00016	0.00017	<0.00030	<0.00030	0.00016	0.00016	0.00010	
Copper D-Cu	<0.0010	0.00084	<0.00010	<0.0010	<0.0010	0.00012	<0.00010	0.00010	
Iron D-Fe	0.443	0.439	0.445	0.426	0.455	0.401	0.419	0.030	
Lead D-Pb	<0.00050	<0.000050	<0.000050	<0.00050	<0.00050	<0.000050	0.000192	0.000050	
Lithium D-Li	0.0075	0.0073	0.0077	0.0068	0.0078	0.0070	0.0067	0.0050	
Magnesium D-Mg	16.8	16.8	17.2	17.1	17.6	16.8	16.7	0.10	
Manganese D-Mn	0.120	0.111	0.131	0.121	0.124	0.126	0.092	0.000050	
Mercury D-Hg	<0.000020			<0.000020	<0.000020			0.000020	
Molybdenum D-Mo	0.0110	0.0114	0.0122	0.0109	0.0118	0.0113	0.0109	0.000050	
Nickel D-Ni	<0.0010	<0.00050	<0.00050	<0.0010	<0.0010	<0.00050	<0.00050	0.00050	
Phosphorus D-P		<0.30	<0.30			<0.30	<0.30	0.30	
Potassium D-K	2.3	3.4	2.4	3.1	2.4	3.3	3.1	2.0	
Selenium D-Se	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	
Silicon D-Si		6.91	6.27			6.78	6.94	0.050	
Silver D-Ag	<0.000020	<0.000010	<0.000010	<0.000020	<0.000020	<0.000010	<0.000010	0.000010	
Sodium D-Na	30.3	34.0	33.8	32.5	32.5	32.8	32.1	2.0	
Strontium D-Sr		1.42	1.53			1.52	0.13	0.00010	
Thallium D-Tl	<0.00020	<0.00010	<0.00010	<0.00020	<0.00020	<0.00010	<0.00010	0.00010	
Tin D-Sn	<0.00050	<0.00010	<0.00010	<0.00050	<0.00050	<0.00010	<0.00010	0.00010	
Titanium D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	
Uranium D-U	0.00120	0.00113	0.00114	0.00107	0.00109	0.00115	0.00111	0.000010	
Vanadium D-V	<0.030	<0.0010	<0.0010	<0.030	<0.030	<0.0010	<0.0010	0.0010	
Zinc D-Zn	<0.0050	0.0058	0.0033	<0.0050	<0.0050	0.0016	0.0067	0.0010	
Radiological Parameters									
Radium-226								0.0050	

Notes:

¹ All units are in mg/L unless otherwise indicated

² Detection limit from October 2005 results except Mercury which is from September 2005 results

³ Range is based on an average pH of 8.0 and a temperature range of 0 to 10°C

⁴ Based on guideline for Hexavalent chromium (Cr(VI))

Sample ID	Sample Station P94-20							Detection Limit ²	CCME Guidelines Water: Freshwater Aquatic Life
	Groundwater Piezometer Located North Abutment of Dam								
Date Sampled	27-May-05	30-Jun-05	29-Jul-05	29-Aug-05	28-Sep-05	15-Oct-05	2-Mar-06		
Sampled by	JG, DG	JG	JG, DC	JG		JG			
Parameter ¹									
Physical Tests									
Conductivity	344	337	347	325	326	315	298	2.0	
Total Dissolved Solids	201	212	194	203	195	198	173	10	
Hardness	167	172	172	166	172	161	154	0.54	
pH	8.16	8.05	7.91	8.19	8.08	7.84	7.76	0.010	6.5 - 9.0
Total Suspended Solids	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	3.0	
Dissolved Anions									
Alkalinity-Total CaCO ₃	142	145	143	143	141	147	137	2.0	
Chloride Cl	<0.50	0.75	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	
Sulphate SO ₄	35.3	31.8	32.1	30.4	28.9	28.5	21.6	0.50	
Nutrients									
Ammonia Nitrogen N	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.056	0.020	1.04 - 2.33 ³
Nitrate Nitrogen N	0.546	0.587	0.628	0.647	0.613	0.676	0.637	0.0050	
Nitrite Nitrogen N	0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	0.06
Cyanides									
Total Cyanide CN		-	-	-	-	-	-	0.0050	
Total Metals (Trace)									
Aluminum T-Al	0.0215	0.0147	0.0099	<0.0050	<0.0050	0.0049	0.0056	0.0010	0.005 - 0.1
Antimony T-Sb	<0.00050	<0.00010	<0.00010	<0.00050	<0.00050	<0.00010	<0.00010	0.00010	
Arsenic T-As	<0.00050	0.00013	0.00012	<0.00050	<0.00050	0.00012	0.00012	0.00010	0.005
Barium T-Ba	0.087	0.0752	0.0748	0.083	0.086	0.0776	0.0655	0.000050	
Beryllium T-Be	<0.0010	<0.00050	<0.00050	<0.0010	<0.0010	<0.00050	<0.00050	0.00050	
Bismuth T-Bi		<0.00050	<0.00050			<0.00050	<0.00050	0.00050	
Boron T-B	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	
Cadmium T-Cd	<0.00050	<0.00050	<0.00050	<0.00017	<0.00017	<0.00050	<0.00050	0.000050	0.000017
Calcium T-Ca	51.7	54.4	54.2	50.2	52.4	50.1	47.6	0.050	
Chromium T-Cr	<0.0010	<0.00050	<0.00050	<0.0010	<0.0010	<0.00050	<0.00050	0.00050	0.001 ⁴
Cobalt T-Co	<0.00030	<0.00010	<0.00010	<0.00030	<0.00030	<0.00010	<0.00010	0.00010	
Copper T-Cu	<0.0010	0.00027	0.00029	<0.0010	<0.0010	0.00024	0.00019	0.00010	0.002 - 0.004
Iron T-Fe	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	0.030	0.3
Lead T-Pb	<0.00050	0.000238	0.000189	<0.00050	<0.00050	0.000098	0.000103	0.000050	0.001 - 0.007
Lithium T-Li	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	
Magnesium T-Mg	9.71	9.89	9.69	9.12	9.53	9.01	8.46	0.10	
Manganese T-Mn	0.00220	0.00294	0.00187	0.00085	0.00058	0.000428	0.000492	0.000050	
Mercury T-Hg	<0.00020			<0.00020	<0.00020			0.000020	0.0001
Molybdenum T-Mo	<0.0010	0.000158	0.000181	<0.0010	<0.0010	0.000178	0.000133	0.000050	0.073
Nickel T-Ni	<0.0010	<0.00050	<0.00050	<0.0010	<0.0010	<0.00050	<0.00050	0.00050	0.025 - 0.15
Phosphorous T-P		<0.30	<0.30			<0.30	<0.30	0.30	
Potassium T-K	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	
Selenium T-Se	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	0.001
Silicon T-Si		6.22	5.55			5.88	6.20	0.050	
Silver T-Ag	<0.00020	<0.000010	<0.000010	<0.000020	<0.000020	<0.000010	<0.000010	0.000010	0.0001
Sodium T-Na	4.9	6.1	5.1	5.3	5.4	5.3	5.6	2.0	
Strontium T-Sr		0.262	0.273			0.265	0.215	0.00010	
Thallium T-Tl	<0.00020	<0.00010	<0.00010	<0.00020	<0.00020	<0.00010	<0.00010	0.00010	0.0008
Tin T-Sn	<0.00050	<0.00010	<0.00010	<0.00050	<0.00050	<0.00010	<0.00010	0.00010	
Titanium T-Ti	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	
Uranium T-U	0.00192	0.00189	0.00194	0.00188	0.00180	0.00190	0.00172	0.000010	
Vanadium T-V	<0.030	<0.0010	<0.0010	<0.030	<0.030	<0.0010	<0.0010	0.0010	
Zinc T-Zn	<0.0050	<0.0010	0.0013	<0.0050	<0.0050	<0.0010	0.0037	0.0010	0.03
Dissolved Metals (Trace)									
Aluminum D-Al	0.0150	<0.0010	0.0016	<0.0050	0.0069	0.0013	0.0019	0.0010	
Antimony D-Sb	<0.00050	<0.00010	<0.00010	<0.00050	<0.00050	<0.00010	<0.00010	0.00010	
Arsenic D-As	<0.00050	0.00012	0.00013	<0.00050	<0.00050	0.00011	0.00014	0.00010	
Barium D-Ba	0.087	0.075	0.075	0.085	0.088	0.0782	0.0643	0.000050	
Beryllium D-Be	<0.0010	<0.00050	<0.00050	<0.0010	<0.0010	<0.00050	<0.00050	0.00050	
Bismuth D-Bi		<0.00050	<0.00050			<0.00050	<0.00050	0.00050	
Boron D-B	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	
Cadmium D-Cd	0.000063	<0.00050	<0.00050	<0.00017	<0.00017	<0.00050	<0.00050	0.000050	
Calcium D-Ca	51.0	51.7	53.0	51.1	52.9	49.7	47.7	0.050	
Chromium D-Cr	<0.0010	<0.00050	<0.00050	<0.0010	<0.0010	<0.00050	<0.00050	0.00050	
Cobalt D-Co	<0.00030	<0.00010	<0.00010	<0.00030	<0.00030	<0.00010	<0.00010	0.00010	
Copper D-Cu	0.0057	0.00034	0.00034	<0.0010	<0.0010	0.00019	0.00010	0.00010	
Iron D-Fe	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	0.030	
Lead D-Pb	0.00084	<0.00050	0.000063	<0.00050	<0.00050	<0.000050	0.000247	0.000050	
Lithium D-Li	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	
Magnesium D-Mg	9.58	9.55	9.63	9.35	9.68	8.92	8.45	0.10	
Manganese D-Mn	0.00241	0.000097	0.00029	<0.00030	0.00050	<0.000050	0.000653	0.000050	
Mercury D-Hg	<0.00020			<0.00020	<0.00020			0.000020	
Molybdenum D-Mo	<0.0010	0.000143	0.000158	<0.0010	<0.0010	0.000152	0.000166	0.000050	
Nickel D-Ni	0.0020	<0.00050	<0.00050	<0.0010	<0.0010	<0.00050	<0.00050	0.00050	
Phosphorous D-P		<0.30	<0.30			<0.30	<0.30	0.30	
Potassium D-K	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	
Selenium D-Se	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	
Silicon D-Si		6.03	5.42			5.83	6.03	0.050	
Silver D-Ag	<0.00020	<0.000010	<0.000010	<0.000020	<0.000020	<0.000010	<0.000010	0.000010	
Sodium D-Na	5.7	6.0	5.1	5.5	5.5	5.3	6.0	2.0	
Strontium D-Sr		0.262	0.3			0.264	0.226	0.00010	
Thallium D-Tl	<0.00020	<0.00010	<0.00010	<0.00020	<0.00020	<0.00010	<0.00010	0.00010	
Tin D-Sn	<0.00050	<0.00010	<0.00010	<0.00050	<0.00050	<0.00010	<0.00010	0.00010	
Titanium D-Ti	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	
Uranium D-U	0.00192	0.00188	0.00194	0.00186	0.00181	0.00190	0.00161	0.000010	
Vanadium D-V	<0.030	<0.0010	<0.0010	<0.030	<0.030	<0.0010	<0.0010	0.0010	
Zinc D-Zn	0.0122	0.0015	0.0022	<0.0050	<0.0050	0.0011	0.0239	0.0010	
Radiological Parameters									
Radium-226		-	-	-	-	-	-	0.0050	

Notes:

¹ All units are in mg/L, unless otherwise indicated

² Detection limit from October 2005 results except Mercury which is from September 2005 results

³ Range is based on an average pH of 8.0 and a temperature range of 0 to 10°C

⁴ Based on guideline for Hexavalent chromium (Cr(VI))

APPENDIX B

**Site Survey Reports
(May 2005 to October 2005)**

May 31, 2005

TO: Rob McIntyre
Access Consulting Group

Fr: John Gibson

RE: Minto Creek Site Survey May 27/05
Site Data and Observations

Minto Sites:

Minto Creek sites were surveyed May 27, 2005 by John Gibson and Dean Gill (Selkirk FN). Minto Creek was accessed from Minto Landing by boat (Heinz Sauer) and the on site truck.

A total of 12 water quality/hydrology stations were sampled during the survey – 2 groundwater piezometers, 2 Yukon River receiving waters and 8 Minto Creek main stem and tributary sites. Site designations and descriptions are:

Station W-1 . Minto Creek approx 0.5 km upstream of lower road crossing (Reach 1)

Station HW-2 Minto Creek at lower road crossing

Station HW-3 Minto Creek at Dam Site

Station W-4 Yukon River receiving waters, 100 m upstream mouth of Minto Creek

Station W-5 Yukon River receiving water, 100 m downstream mouth of Minto Creek

Station W-6 South flowing tributary to Minto Creek approx 1 km downstream dam site

Station W-7 North flowing tributary to Minto Creek approx 0.8 km downstream dam Site

Station W-8 North flowing tributary to Minto Creek approx 0.5 downstream camp site

Station W-9 Minto Creek upstream of pit area

Station W-10 Minto Creek headwaters, 50 m downstream upper road crossing

Piez P93-E Groundwater piezometer located in pit area

Piez P94-20 Groundwater piezometer located north abutment of dam

Sites were accessed by boat, truck or foot. All main stem and tributary sites were flagged. Sites will have GPS coordinates done during June survey.

Water Quality Samples:

All stations were sampled for total and dissolved metals (ICP-MS scan), ammonia and general chemistry (pH, conductivity, TSS, TDS, total alkalinity, total hardness, chloride, sulphate, nitrate and nitrite nitrogen).

All surface water samples were grab samples.

Piezometers were purged prior to sampling with a Waterra pump.

Station P93E was purged 3.5 hrs (380 liters) prior to sampling. Static water level at start was 26.01 meters, at completion 44.84 meters.

Station P94-20 was purged 1.5 hrs (190 liters) prior to sampling. Static water level at start was 15.3 meters, at completion 15.2 meters.

General chemistry samples were taken in a 1 liter plastic bottle (no preservative)

Total metals samples were taken in a 125 mL plastic bottle preserved with nitric acid

Dissolved metal samples were filtered (0.45 mm) into a 125 mL plastic bottle and preserved with nitric acid.

Ammonia samples were taken in a 250 mL amber glass bottle and preserved with sulphuric acid.

Samples were kept at 4 Celsius with ice packs and held over one day for shipment on Sunday May 29 for arrival at ALS on Monday May 30.

Samples were shipped air cargo on Air North.

ALS was instructed to send analysis reports to Access Consulting (Email pdf file), B. McLeod at Sherwood Mines (hardcopy by mail) and John Gibson (hardcopy by mail).

Flow Volume Measurements:

Flow volume measurements were taken using a Price Velocity meter at mainstem stations W-9, HW-2 and HW-3. All other sites were estimated based on the three measured flows.

W-1 = 0.097 cms estimate (based on HW-2 measurement 0.5 km d/s)

HW-2 = 0.097 cms

HW-3 = 0.046 cms

W-6 = 0.009-0.012 cms estimate

W-7 = 0.010 – 0.015 cms estimate

W-8 = 0.010 – 0.015 cms estimate

W-9 = 0.021 cms

Minto Creek was in decreasing water level stage following spring freshet. According to Dean Gill, spring freshet for small water sheds in the Pelly / Minto area occurred in mid – May. Yukon River was in increasing level stage towards high water peak. Stage had increased significantly over past 4 days according to Heinz Sauer.

Next Survey : Tentatively scheduled for June 29 or 30. (J. Gibson and D. Gill)

Attached:

- 1. Lab Chain Of Custody forms**
- 2. Flow Calibration / calculation sheets**

1988 Triumph Street, Vancouver, BC Canada V5L 1K5 Tel: 604-253-4188 Toll Free: 1-800-665-0243 Fax: 604-253-6700
#2 - 21 Highfield Circle SE, Calgary, AB Canada T2G 5N6 Tel: 403-214-5431 Toll Free: 1-866-722-6231 Fax: 403-214-5430
#2 - 8820 100th Street, Fort St. John, BC Canada V1J 3W9 Tel: 250-785-8281 Fax: 250-785-8286



CHAIN OF CUSTODY FORM

SEND REPORT TO: CLIENT: NORTH AIR - MINTQ PROJECT
 ADDRESS: #260 - 625 HOWEST. POSTAL CODE: V6G 2T6
 CITY: VANCOUVER PROV: B.C.
 TELEPHONE: 697-7545 FAX: 699-5041 CONTACT: B. McLEOD.
 PROJECT NAME & NO.: _____
 QUOTE NO.: ALSEQ 05-217 PO NO.: _____
 REPORT FORMAT: HARDCOPY EMAIL ADDRESS: _____
 FAX EXCEL PDF OTHER: SEE ATTACHED INST.

SAMPLE IDENTIFICATION	DATE / TIME COLLECTED		MATRIX
	YYYY-MM-DD	TIME	

MINTO W-1	MAY 26 05		H2O
HW-2	↓		↓
HW-3			
W-4			
W-5			
W-6			
W-7			
W-8			

ANALYSIS REQUESTED:										NOTES (sample specific comments, due dates, etc.)
GEN CHEM	AMMONIA/NH4	ICPMS TOTAL METALS	ICPMS DISSOLVED METALS							
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	* ALL NH4 + Subph
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	* ALL TOTAL METALS + Nitric
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	* ALL DISS METALS FRIED FILTERED + NITRIC

RELINQUISHED BY: J. GIBSON DATE: MAY 29 RECEIVED BY: _____ DATE: _____
 TIME: _____ TIME: _____
 RELINQUISHED BY: _____ DATE: _____ RECEIVED BY: _____ DATE: _____
 TIME: _____ TIME: _____

FOR LAB USE ONLY

COOLER SEAL INTACT? YES NO N/A SAMPLE TEMPERATURE: _____ °C COOLING METHOD? ICEPACKS ICE NONE
 FROZEN? YES NO

TURN AROUND REQUIRED: ROUTINE RUSH - SPECIFY DATE: _____ (surcharge may apply)
 SEND INVOICE TO: SAME AS REPORT DIFFERENT FROM REPORT (provide details below) INVOICE FORMAT: HARDCOPY PDF FAX

SPECIAL INSTRUCTIONS:
REPORTS - HARDCOPY TO NORTH AIR W/ INVOICE
- HARDCOPY TO J. GIBSON BOX 2011 WILSE Y1A7A2
- EMAIL COPY TO rob@access consulting.ca

FOR LAB USE ONLY

CHAIN OF CUSTODY FORM

SEND REPORT TO:
 CLIENT: NORHAIR - MINTO PROTECT

ADDRESS: _____
 CITY: _____ PROV.: _____ POSTAL CODE: _____
 TELEPHONE: _____ FAX: _____ CONTACT: _____
 PROJECT NAME & NO.: _____ SAMPLER: _____
 QUOTE NO.: ALS6805-217 PO NO.: _____ ALS CONTACT: _____
 REPORT FORMAT: HARD COPY EMAIL - ADDRESS: _____
 FAX EXCEL PDF OTHER: _____

ANALYSIS REQUESTED:

ANALYSIS REQUESTED	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	
GEN CHEM	✓																		
AMMONIA / NH4	✓																		
ICPMS TOTAL METAL	✓																		
ICPMS DISSOLVED MET.	✓																		

NOTES (sample specific comments, due dates, etc.)

SAMPLE IDENTIFICATION	DATE / TIME COLLECTED		MATRIX
	YYYY-MM-DD	TIME	
W-9	MM/29/05		H ₂ O
W-10	↓	↓	↓
P93E			
P94-20			

TURN AROUND REQUIRED: ROUTINE RUSH - SPECIFY DATE: _____ (surcharge may apply)

SEND INVOICE TO: SAME AS REPORT INVOICE FORMAT: HARD COPY PDF FAX
 DIFFERENT FROM REPORT (provide details below)

SPECIAL INSTRUCTIONS
 PLEASE RETURN COOLERS - 14 SETS BOTTLES (1x8, 2x125ml, N2)
 - PRESERVATIVES - nitric + sulphuric
 - DM. filters (if possible)
 4 Labkits + COC

FOR LAB USE ONLY

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

COOLER SEAL INTACT? YES NO N/A
 SAMPLE TEMPERATURE: _____ °C
 FROZEN? YES NO
 COOLING METHOD? ICEPACKS ICE NONE

STAFF GAUGE - DISCHARGE CALIBRATION

Project: Minto Creek

Date: May 27, 2005

Site ID: W-9

Distance (m)	Depth (m)	Velocity (m/s)	Width (m)	Area (m.sq)	Discharge (cms)
3.62	0	0	0.04	0	0
3.7	0.42	0.185	0.14	0.0588	0.010878
3.9	0.4	0.072	0.15	0.06	0.0043
4	0.38	0.065	0.1	0.038	0.0025
4.1	0.36	0.057	0.1	0.036	0.0021
4.2	0.28	0.067	0.095	0.0266	0.002
4.29	0	0	0.045	0	0.0000

Total	0.67		0.67	0.2194	0.021502
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S.G @ start: no S.G.

S.G. @ End:

Data Logger Reading: No logger installed

Channel under ice: no

Method: Price velocity meter

Crew: J. Gibson , D. Gill

STAFF GAUGE - DISCHARGE CALIBRATION

Project: Minto Creek

Date: May 27, 2005

Site ID: H-2

Distance (m)	Depth (m)	Velocity (m/s)	Width (m)	Area (m.sq)	Discharge (cms)
4.6	0	0	0.1	0	0
4.8	0.14	0.22	0.20	0.028	0.00616
5	0.29	0.22	0.15	0.0435	0.0096
5.1	0.28	0.22	0.125	0.035	0.0077
5.25	0.26	0.211	0.15	0.039	0.0082
5.4	0.26	0.234	0.175	0.0455	0.011
5.6	0.2	0.224	0.2	0.04	0.0090
5.8	0.18	0.224	0.2	0.036	0.0081
6	0.16	0.224	0.25	0.04	0.00896
6.3	0.16	0.203	0.3	0.048	0.009744
6.6	0.14	0.169	0.3	0.042	0.007098
6.9	0.13	0.173	0.3	0.039	0.006747
7.2	0.13	0.127	0.3	0.039	0.004953
7.5	0	0	0.15	0	0

Total	2.9		2.9	0.475	0.096832
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S.G @ start: no S.G.

S.G. @ End:

Data Logger Reading: No logger installed

Channel under ice: no

Method: Price velocity meter

Crew: J. Gibson , D. Gill

July 4, 2005

**TO: Rob McIntyre / Dan Cornett
Access Consulting Group**

Fr: John Gibson

**RE: Minto Creek Site Survey June 30/05
Site Data and Observations**

Minto Sites:

Minto Creek sites were surveyed June 30, 2005 by John Gibson. Dean Gill (Selkirk FN) could not attend.

Minto Creek was accessed from Minto Landing by boat (Heinz Sauer) and the on site truck.

As on the May survey, a total of 12 water quality/hydrology stations were sampled during the survey – 2 groundwater piezometers, 2 Yukon River receiving waters and 8 Minto Creek main stem and tributary sites. Site designations and descriptions are:

Station W-1 . Minto Creek approx 0.5 km upstream of lower road crossing (Reach 1)

Station HW-2 Minto Creek at lower road crossing

Station HW-3 Minto Creek at Dam Site

Station W-4 Yukon River receiving waters, 100 m upstream mouth of Minto Creek

Station W-5 Yukon River receiving water, 100 m downstream mouth of Minto Creek

Station W-6 South flowing tributary to Minto Creek approx 1 km downstream dam site

Station W-7 North flowing tributary to Minto Creek approx 0.8 km downstream dam Site

Station W-8 North flowing tributary to Minto Creek approx 0.5 downstream camp site

Station W-9 Minto Creek upstream of pit area

Station W-10 Minto Creek headwaters, 50 m downstream upper road crossing
Moved approx 200 m d/s to surface flow – original site dry.

Piez P93-E Groundwater piezometer located in pit area

Piez P94-20 Groundwater piezometer located north abutment of dam

Sites were accessed by boat, truck or foot. All main stem and tributary sites were flagged. Site GPS coordinates are listed on the attached sheet.

Water Quality Samples:

All stations were sampled for total and dissolved metals (ICP-MS scan), ammonia and general chemistry (pH, conductivity, TSS, TDS, total alkalinity, total hardness, chloride, sulphate, nitrate and nitrite nitrogen).

All Minto Creek mainstem stations (W1, W2, W3, W9 and W10) were also sampled for total cyanide and total radium 226.

All surface water samples were grab samples.

Piezometers were purged prior to sampling with a Waterra pump.

Station P93E was purged 3.5 hrs (380 liters) prior to sampling. Static water level at start was 25.66 meters, at completion 47.75 meters.

Station P94-20 was purged 1.5 hrs (190 liters) prior to sampling. Static water level at start was 15.68 meters, at completion 15.72 meters.

General chemistry samples were taken in a 1 liter plastic bottle (no preservative)

Total metals samples were taken in a 125 mL plastic bottle preserved with nitric acid

Dissolved metal samples were filtered (0.45 mm) into a 125 mL plastic bottle and preserved with nitric acid.

Ammonia samples were taken in a 250 mL amber glass bottle and preserved with sulphuric acid.

Total cyanide samples were taken in a 1 liter plastic bottle and preserved with 6-8 pellets of NaOH.

Radium 226 samples were taken in a 1 liter plastic bottle, preserved with 10 ml nitric acid.

Samples were kept at 4 Celsius with ice packs and held over the July 1 weekend for shipment on Sunday July 3 for arrival at ALS on Monday July 4.

Samples were shipped air cargo on Air North.

ALS was instructed to send analysis reports to Access Consulting (Email pdf file), B. McLeod at Sherwood Mines (Email pdf file) and John Gibson (hardcopy by mail).

Flow Volume Measurements:

Flow volume measurements were taken using a Price Velocity meter at mainstem stations HW-2 and HW-3. All other sites were estimated based on the three measured flows.

As you can see from the listed comparison of flows May 27 and June 30, Minto Creek flows have decreased substantially. Minto Creek at Station HW2 (near the mouth @ road crossing) had a flow of 0.012 l/s which is approaching late summer low flow (already).

Station	Date	
	<i>May 27</i>	<i>June 30</i>
W1	0.097 l/s (E)	0.012 l/s (E)
W2	0.097	0.012
W3	0.046	0.008
W6	0.009-0.012 (E)	0.002 (E)
W7	0.010-0.015 (E)	0.005 (E)
W8	0.010-0.015 (E)	0.005 (E)
W9	0.021	0.010 (E)
W10	-	<0.001 (E)

(E) = Estimated

Fuel Storage

The following fuel containers were located at the Minto site:

1. 9150 liter capacity Westeel Double Containment Fuel Vault at camp / water house
Tank is empty (or very close to it)
2. Diesel TidyTank (3-400L) at camp – almost empty
3. 4 fuel drums on pallet behind well house – diesel and gas / all partially full.
4. 4 drums on skid platform down by mill site – 2 empty, 2 partial gas or diesel
5. Propane tank – camp supply – 10 psi pressure in line but appears almost empty.

The 20,000 L tank you mentioned was used during road construction and was located in a lined containment berm near the Asarco landing. No sign of tank/berm or liner remains.

Access Road

The access road from the river landing to the mine site is in good shape (best it has survived spring yet). There are some minor shoulder washouts at a few locations but nothing to prevent travel at 30 – 35 kph. There is also some minor frost heaves / settlement on the Minto side of the Big Creek bridge for 1 km, and again near the road crossing of Minto Creek at station WH2.

Next Survey : Tentatively scheduled for July 28 or 29th. Will attempt to schedule Dean Gill in. Proposed to install water level recorder at W1. Will be a two day survey with one tech from Access. First day to cut trail into W1 site, install instrument. Second day for sampling sites and check on level instrument.

Attached:

1. **Lab Chain Of Custody forms (had to make one up as ALS did not send one)**
2. **Flow Calibration / calculation sheets**
3. **Road photos**
4. **Excel disc with historic summary Stations WH2 and WH3, Piez P93E and P94-20.**

Note: requested ALS send data electronically to Bruce McLeod rather than as hard copy.

JOHN

Minto Creek Sites - GPS Data June 30/05

<i>Site</i>		<i>LMK #</i>	<i>Coordinates</i>	
W1	Mainstem	LMK 003	39 24 24 E	69 48 27 9 N
W2	Mainstem	LMK 002	39 25 98 E	69 48 50 6 N
W3	Mainstem	LMK 008	38 65 64 E	69 45 21 6 N
W4	Yukon R	LMK 013	39 36 66 E	69 42 43 0 N
W5	Yukon R	LMK 014	39 21 81 E	69 45 48 8 N
W6	Trib	LMK 009	38 75 94 E	69 46 38 1 N
W7	Trib	LMK 008	38 75 30 E	69 45 04 5 N
W8	Trib	LMK 005	38 56 41 E	69 45 13 2 N
W9	Mainstem	LMK 006	38 45 30 E	68 44 82 3 N
W10	Mainstem	LMK 004	38 43 27 E	69 42 98 6 N
P93E	Piez	LMK 007	38 46 95 E	69 45 09 1 N
P94 - 20	Piez	LMK 012	38 64 18 E	69 45 54 1 N

CHAIN OF CUSTODY - ANALYSIS REQUEST

PROJECT: NORTHAIR - MINTO PROJECT

860 - 625 Howe Street
 Vancouver, BC V6C 2T6
 Ph: 697 - 7545

QUOTE # : ALSEQ05-217 ALS CONTACT - KEN DANG

REPORTS: Electronic to 1. Bruce McLeod @ NorthAir bruce@northair.com
 2. Rob McIntyre @ Access Consulting rob@accessconsulting.ca
 Hardcopy to John Gibson Box 20111 Whse YT Y1A 7A2

Sample ID	Date	Matrix	Gem Chem	NH4	ICP MS Total Metal	ICP MS Diss Metals	Total CN	Radium 226
Surface waters								
Minto W-1	30-Jun	Water	X	X	X	X	X	X
Minto W-2	30-Jun	Water	X	X	X	X	X	X
Minto W-3	30-Jun	Water	X	X	X	X	X	X
Minto W-4	30-Jun	Water	X	X	X	X		
Minto W-5	30-Jun	Water	X	X	X	X		
Minto W-6	30-Jun	Water	X	X	X	X		
Minto W-7	30-Jun	Water	X	X	X	X		
Minto W-8	30-Jun	Water	X	X	X	X		
Minto W-9	30-Jun	Water	X	X	X	X	X	X
Minto W-10	30-Jun	Water	X	X	X	X	X	X
Groundwater Piez								
Minto P93E	30-Jun	Water	X	X	X	X		
Minto P94-20	30-Jun	Water	X	X	X	X		

Notes: All Dissolved Metals samples field filtered and preserved with nitric 1 ml/125 ml
 All total metals samples preserved with nitric 1 ml / 125 ml
 All CN samples preserved with NaOH (6-7 pellets per bottle)
 All Radium 226 samples preserved with 10ml Nitric per liter
 All Ammonia samples preserved with sulphuric
 See quote for general chemistry parameters

NEXT SCHEDULED SAMPLING IS THIRD WEEK OF JULY - PLEASE RETURN COOLERS WITH FOLLOWING:

13 x 1 LITER FOR GEN CHEM

13 x 250 ML FOR AMMONIA + PRESERVATIVE

26 x 125 ML FOR TOTAL AND DISSOLVED METALS + PRESERVATIVE

5 x 1 LITER FOR TOTAL CN + PRESERVATIVE

5 x 1 LITER FOR RADIUM 226 + PRESERVATIVE

SUFFICIENT LABELS AND 4 - 5 COPIES OF COC !!!!!

STAFF GAUGE - DISCHARGE CALIBRATION

Project: MINTO CREEK

Date: June 30, 2005

Site ID: HW3 - Minto Creek below dam site

Distance (m)	Depth (m)	Velocity (m/s)	Width (m)	Area (m.sq)	Discharge (cms)
5.05	0	0	0.125	0	0
5.3	0.1	0.066	0.175	0.0175	0.001155
5.4	0.06	0.083	0.1	0.006	0.0005
5.5	0.12	0.169	0.1	0.012	0.0020
5.6	0.07	0.199	0.1	0.007	0.0014
5.7	0.04	0.089	0.15	0.006	0.001
5.9	0.06	0.06	0.2	0.012	0.0007
6.1	0.09	0.06	0.2	0.018	0.0011
6.3	0.08	0.041	0.175	0.014	0.000574
6.45	0	0	0.075	0	0

Total	1.4		1.4	0.0925	0.007982
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S.G @ start: no staff

S.G. @ End:

Data Logger Reading: no logger at site

Channel under ice: no

Method: Price velocity meter

Crew: J. Gibson

STAFF GAUGE - DISCHARGE CALIBRATION

Project: MINTO CREEK

Date: June 30, 2005

Site ID: HW2 - Minto Creek near the mouth

Distance (m)	Depth (m)	Velocity (m/s)	Width (m)	Area (m.sq)	Discharge (cms)
4.45	0	0	0.075	0	0
4.6	0.04	0.059	0.125	0.005	0.000295
4.7	0.08	0.055	0.1	0.008	0.0004
4.8	0.09	0.165	0.1	0.009	0.0015
4.9	0.1	0.165	0.1	0.01	0.0017
5	0.1	0.154	0.1	0.01	0.002
5.1	0.1	0.161	0.1	0.01	0.0016
5.2	0.09	0.149	0.15	0.0135	0.0020
5.4	0.06	0.185	0.2	0.012	0.00222
5.6	0.04	0.119	0.225	0.009	0.001071
5.85	0	0	0.125	0	0

Total	1.4		1.4	0.0865	0.012323
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S.G @ start: no staff

S.G. @ End:

Data Logger Reading: no logger at site

Channel under ice: no

Method: Price velocity meter

Crew: J. Gibson

August 6, 2005

**TO: Rob McIntyre / Dan Cornett
Access Consulting Group**

Fr: John Gibson

**RE: Minto Creek Site Survey July 28/29,2005
Site Data and Observations**

Minto Sites:

Minto Creek sites were surveyed July 28 and 29, 2005 by John Gibson. Durand Cornett of your office accompanied me on July 28 for water level data logger installation. Dean Gill (Selkirk FN) was not at Minto Landing Thursday morning for the ferry but did show up later at 3 pm at which time we were onsite and out of contact. Minto Creek was accessed from Minto Landing by boat (Heinz Sauer) and the on site truck.

As on the May and June surveys, a total of 12 water quality/hydrology stations were sampled during the survey – Two groundwater piezometers (P94-20 and P93E), two Yukon River receiving waters (W4 and W5), five Minto Creek main stem stations (W10, W9, HW3, HW2, W1) and three tributary sites (W8, W7, W6). Sites were accessed by boat, truck or foot.

Water Quality Samples:

All stations were sampled for total and dissolved metals (ICP-MS scan), ammonia and general chemistry (pH, conductivity, TSS, TDS, total alkalinity, total hardness, chloride, sulphate, nitrate and nitrite nitrogen).

All Minto Creek main stem stations (W1, W2, W3, W9 and W10) were also sampled for total cyanide and total radium 226.

All surface water samples were grab samples.

Groundwater piezometer stations were purged with a Waterra pump prior to sampling. Station P93E was purged 3. hrs (410 liters) prior to sampling. Static water level at start was 26.65 meters, at completion 48.88 meters.

Station P94-20 was purged 1.5 hrs (200 liters) prior to sampling. Static water level at start was 15.72 meters, at completion 15.88 meters.

General chemistry samples were taken in a 1 liter plastic bottle (no preservative)

Total metals samples were taken in a 125 mL plastic bottle preserved with nitric acid

Dissolved metal samples were filtered (0.45 mm) into a 125 mL plastic bottle and preserved with nitric acid.

Ammonia samples were taken in a 250 mL amber glass bottle and preserved with sulphuric acid.

Total cyanide samples were taken in a 1 liter plastic bottle and preserved with 6-8 pellets of NaOH.

Radium 226 samples were taken in a 1 liter plastic bottle, preserved with 10 ml nitric acid.

Samples were kept at 4 Celsius with ice packs and held over the August 1 weekend for shipment on Monday August 1 for arrival at ALS on Tuesday August 2.

Samples were shipped air cargo on Air North.

ALS was instructed to send analysis reports to Access Consulting (Email pdf file), B. McLeod at Sherwood Mines (Email pdf file) and John Gibson (hardcopy by mail).

Data Logger Installation

A Heron water level data logger and staff gauge were installed at station W1 on July 28th. The logger was programmed and started with the transducer reading (0.20 m) corresponding to the staff gauge reading (0.196 m) - "0" on transducer is "0" on staff. A flow measurement was taken at a stream cross section 1 meter downstream of the staff gauge. Two bench marks were established on live trees (well marked) adjacent to the site and the top of staff was surveyed. Elevations are:

BM #1 – 100.000 meters

BM#2 – 99.515 m

TSG – 99.266 m

Flow Volume Measurements:

Flow volume measurements were taken using a Price Velocity meter at mainstem stations W-1 and HW-3. All other sites were estimated based on the measured flows.

As you can see from the listed comparison of flows, Minto Creek flows have decreased substantially, approaching summer low flow .

There was substantial rainfall the afternoon of the 28th and steady light rain overnight and into the 29th. Station W1 flows were measured on the 28th during data logger installation –prior to precipitation while W3 flows were measured near noon on the 29th.

Flows in the upper stations (W3, W6, W7 and W8) began increasing noticeably at 1100 hours on the 29th as a result of the precip. Interpretation of water quality data for those sites should consider the increasing flows. Interesting that there is a 20-21 hours delay between the first heavy rainfall at 4 pm on 28th to a noticeable increase in upper station flows at 1100 am on the 29th.

Station	Date		
	<i>May 27</i>	<i>June 30</i>	<i>July 28/29</i>
W1	0.097 l/s (E)	0.012 l/s (E)	0.011 l/s
W2	0.097	0.012	0.011
W3	0.046	0.008	0.014
W6	0.009-0.012 (E)	0.002 (E)	0.005 (E)
W7	0.010-0.015 (E)	0.005 (E)	0.005 (E)
W8	0.010-0.015 (E)	0.005 (E)	0.007 (E)
W9	0.021	0.010 (E)	0.015 (E)
W10	-	<0.001 (E)	<0.001 (E)

(E) = Estimated

Next Survey : Tentatively scheduled for August 29 and 30th. Will attempt to schedule Dean Gill in (again).

Proposed site work – water quality samples 10 surface water sites, purge and sample 2 piezometers, flows measurements at W1 , HW3 and W9. Improve trail to W1 logger site. Check on data logger operations/ photos.

Attached:

- 1. ALS Chain Of Custody forms**
- 2. Flow Calibration / calculation sheets**

JOHN

SEND REPORT TO:

CHAIN OF CUSTODY FORM

CLIENT: NORTH AIR - MINTO PROJECT
 ADDRESS: #800 - 625 HOWE ST.
 CITY: VAN PROV: BC POSTAL CODE: V6C 2T6
 TELEPHONE: 604-7545 FAX: 604-5041 CONTACT: B. McLEOD
 PROJECT NAME & NO.: _____ SAMPLER: _____
 QUOTE NO.: AL56205-217 PO NO.: _____ ALS CONTACT: C. DANG
 REPORT FORMAT: HARDCOPY EMAIL - ADDRESS: _____
 FAX EXCEL PDF OTHER: _____

ANALYSIS REQUESTED:

SAMPLE IDENTIFICATION	DATE / TIME COLLECTED		MATRIX	GEN CHEM. (C/D)	AMMONIA - NH4 (250ml + 2ml HCl)	TOTAL METAL (100ml) (125ml + 2ml HCl)	DISS METALS (100ml) (125ml + 2ml HCl)	CN - TOTAL (10 + 100ml)	RADIUM 226 (10 + 100ml nitric)	NOTES (sample specific comments, due dates, etc.)
	YYYY-MM-DD	TIME								
MINTO W-1	05-07-08		SURFACE	✓	✓	✓	✓	✓	✓	All NH4 + SULPHATE
H-2	05-07-28		H2O	✓	✓	✓	✓	✓	✓	
H-3	05-07-29		↓	✓	✓	✓	✓	✓	✓	ALL TOTAL METALS + NITRIC
W-4	↓			✓	✓	✓	✓			
W-5				✓	✓	✓	✓			ALL DISS METALS Field filtered + Nitric
W-6				✓	✓	✓	✓			
W-7				✓	✓	✓	✓			CN + NH4
W-8				✓	✓	✓	✓			Radium 226 + 10ml nitric
W-9				✓	✓	✓	✓	✓	✓	
W-10				✓	✓	✓	✓	✓	✓	

TURN AROUND REQUIRED: ROUTINE RUSH - SPECIFY DATE: _____ (surcharge may apply)

SEND INVOICE TO: SAME AS REPORT INVOICE FORMAT: HARDCOPY PDF FAX
 DIFFERENT FROM REPORT (provide details below)

SPECIAL INSTRUCTIONS:
REPORTS - ELECTRONIC TO NORTH AIR + ACCESS CONSULTING
- HARDCOPY TO J. FISHER BOX 2011 WILK VT VIA FAZ.

RELINQUISHED BY: <u>J. Gibson</u>	DATE: <u>31-07-05</u>	RECEIVED BY:	DATE:
	TIME:		TIME:
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
	TIME:		TIME:

FOR LAB USE ONLY		
COOLER SEAL INTACT? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	SAMPLE TEMPERATURE: _____ °C FROZEN? <input type="checkbox"/> YES <input type="checkbox"/> NO	COOLING METHOD? <input type="checkbox"/> ICEPACKS <input type="checkbox"/> ICE <input type="checkbox"/> NONE

STAFF GAUGE - DISCHARGE CALIBRATION

Project: Minto Creek

Date: July 28, 2005

Site ID: W-1 @ Data Logger

Distance (m)	Depth (m)	Velocity (m/s)	Width (m)	Area (m.sq)	Discharge (cms)
3.8	0	0	0.10	0	0
4	0.16	0.053	0.15	0.024	0.0013
4.1	0.16	0.054	0.1	0.016	0.0009
4.2	0.15	0.021	0.1	0.015	0.0003
4.3	0.15	0.04	0.1	0.015	0.001
4.4	0.16	0.047	0.1	0.016	0.0008
4.5	0.16	0.047	0.1	0.016	0.0008
4.6	0.16	0.046	0.1	0.016	0.000736
4.7	0.14	0.049	0.1	0.014	0.000686
4.8	0.16	0.053	0.1	0.016	0.000848
4.9	0.14	0.054	0.15	0.021	0.001134
5.1	0.11	0.054	0.2	0.022	0.001188
5.3	0.11	0.05	0.2	0.022	0.0011
5.5	0.12	0.053	0.16	0.0192	0.001018
5.62	0	0	0.06	0	0

Total	1.82		1.82	0.2322	0.011265
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S.G @ start: 0.196 m @ 1300 hrs S.G. @ End: 0.196 m

Data Logger Reading: 0.20 m

Logger installed this survey

Channel under ice: no

Method: Price velocity meter

Crew: J. Gibson /D. Cornett

STAFF GAUGE - DISCHARGE CALIBRATION

Project: Minto Creek

Date: July 29, 2005

Site ID: H-3 @ DamSite

Distance (m)	Depth (m)	Velocity (m/s)	Width (m)	Area (m.sq)	Discharge (cms)
5.05	0	0	0.075	0	0
5.2	0.08	0.085	0.125	0.01	0.0009
5.3	0.12	0.076	0.1	0.012	0.0009
5.4	0.11	0.073	0.1	0.011	0.0008
5.5	0.09	0.229	0.1	0.009	0.002
5.6	0.04	0.311	0.1	0.004	0.0012
5.7	0.07	0.169	0.1	0.007	0.0012
5.8	0.09	0.1	0.1	0.009	0.0009
5.9	0.08	0.089	0.1	0.008	0.000712
6	0.1	0.115	0.1	0.01	0.00115
6.1	0.09	0.145	0.1	0.009	0.001305
6.2	0.1	0.154	0.1	0.01	0.00154
6.3	0.07	0.101	0.135	0.00945	0.000954
6.47	0	0	0.085	0	0

Total	1.42		1.42	0.10845	0.013614
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S.G @ start: no staff @ site S.G. @ End:

Data Logger Reading: no logger at site

Channel under ice: no

Method: Price velocity meter

Crew: J. Gibson

September 8, 2005

**TO: Rob McIntyre / Dan Cornett
Access Consulting Group**

Fr: John Gibson

**RE: Minto Creek Site Survey August 29/30,2005
Site Data and Observations**

Minto Sites:

Minto Creek sites were surveyed August 29 and 30, 2005 by John Gibson.

The Selkirk First Nations rep was again a no show.

Minto Creek was accessed from Minto Landing by boat (Heinz Sauer) and the on site truck.

As in the three previous surveys, a total of 12 water quality/hydrology stations were sampled during the survey – Two groundwater piezometers (P94-20 and P93E), two Yukon River receiving waters (W4 and W5), five Minto Creek main stem stations (W10, W9, HW3, HW2, W1) and three tributary sites (W8, W7, W6).

Sites were accessed by boat, truck or foot.

Water Quality Samples:

All stations were sampled for total and dissolved metals (ICP-MS scan), ammonia and general chemistry (pH, conductivity, TSS, TDS, total alkalinity, total hardness, chloride, sulphate, nitrate and nitrite nitrogen).

All Minto Creek main stem stations (W1,HW2,HW3,W9 and W10) were also sampled for total cyanide and total radium 226.

Station W-9 was moved 50 meters upstream of previous site to avoid a new drill site with some disturbance to the stream channel.

All surface water samples were grab samples.

Groundwater piezometer stations were purged with a Waterra pump prior to sampling.

Station P93E was purged 3 hrs 22 minutes (520 liters) prior to sampling. Static water level at start was 26.63 meters, at completion 45.43 meters.

Station P94-20 was purged 1.5 hrs (200 liters) prior to sampling. Static water level at start was 15.70 meters, at completion 16.21 meters.

General chemistry samples were taken in a 1 liter plastic bottle (no preservative)

Total metals samples were taken in a 250 mL plastic bottle preserved with nitric acid

Dissolved metal samples were filtered (0.45 mm syringe filter) into a 125 mL plastic bottle and preserved with nitric acid.

Ammonia samples for main stem stations were taken in a 250 mL amber glass bottle and preserved with sulphuric acid. Due to shortage of bottles sent by lab, tributary, receiving waters and piezometer ammonia samples were taken in a 250 ml plastic bottle and preserved with sulphuric acid.

Total cyanide samples were taken in a 1 liter plastic bottle and preserved with 6-8 pellets of NaOH.

Radium 226 samples were taken in a 1 liter plastic bottle, preserved with 10 ml nitric acid.

Samples were kept at 4 Celsius with ice packs and shipped via air cargo on August 31 for arrival at ALS on Thursday September 1.

ALS was requested to be more prompt in sending analysis results – again instructed to send analysis reports to Access Consulting (Email pdf file), B. McLeod at Sherwood Mines (Email pdf file) and John Gibson (hardcopy by mail).

Data Logger Installation

The data logger installation at Station W-1 was checked but not downloaded.

Flow Volume Measurements:

Flow volume measurements were taken using a Price Velocity meter at main stem stations W-1 and HW-3. All other sites were estimated based on the measured flows. The increase in flows at Station W-1 between July 28 and August 30 is puzzling as there was not a corresponding significant increase in staff gauge height (0.196 m vs 0.24 m). The higher volumes in August are a result of increased velocity. Mean velocity in July was 0.047 m/s while in August was 0.261 m/s. Further measurements in this gauge height range will clarify the stage discharge curve.

Station	Date			
	<i>May 27</i>	<i>June 30</i>	<i>July 28/29</i>	<i>Aug 29/30</i>
W1	0.097 l/s (E)	0.012 l/s (E)	0.011 l/s	0.061 l/s
W2	0.097	0.012	0.011	0.061
W3	0.046	0.008	0.014	0.017
W6	0.009-0.012 (E)	0.002 (E)	0.005 (E)	0.005 (E)
W7	0.010-0.015 (E)	0.005 (E)	0.005 (E)	0.010 (E)
W8	0.010-0.015 (E)	0.005 (E)	0.007 (E)	0.005 (E)
W9	0.021	0.010 (E)	0.015 (E)	0.010 (E)
W10	-	<0.001 (E)	<0.001 (E)	<0.001 (E)

(E) = Estimated

Next Survey : Tentatively scheduled for September 29/30 (after moose hunting).

Will attempt to schedule Dean Gill in (again).

Proposed site work – water quality samples 10 surface water sites, purge and sample 2 piezometers, flows measurements at W1 , HW3 and W9. Improve trail to W1 logger site. Check on data logger operations/ photos.

Attached:

- 1. ALS Chain Of Custody forms**
- 2. Flow Calibration / calculation sheets**

JOHN

STAFF GAUGE - DISCHARGE CALIBRATION

Project: Minto Creek

Date: August 29, 2005

Site ID: H-3 @ Dam site

Distance (m)	Depth (m)	Velocity (m/s)	Width (m)	Area (m.sq)	Discharge (cms)
5.1	0	0	0.100	0	0
5.3	0.11	0.188	0.15	0.0165	0.0031
5.4	0.12	0.101	0.1	0.012	0.0012
5.5	0.12	0.106	0.1	0.012	0.0013
5.6	0.1	0.298	0.1	0.01	0.003
5.7	0.11	0.251	0.1	0.011	0.0028
5.8	0.08	0.129	0.1	0.008	0.0010
5.9	0.06	0.134	0.1	0.006	0.000804
6	0.08	0.078	0.1	0.008	0.000624
6.1	0.07	0.079	0.1	0.007	0.000553
6.2	0.08	0.142	0.1	0.008	0.001136
6.3	0.08	0.139	0.1	0.008	0.001112
6.4	0.05	0.119	0.125	0.00625	0.000744
6.55	0	0	0.075	0	0

Total	1.45		1.45	0.11275	0.017332
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S.G @ start: no staff gauge S.G. @ End:

Data Logger Reading: no logger at site

Channel under ice: no

Method: Price velocity meter

Crew: J. Gibson

SEND REPORT TO:

CHAIN OF CUSTODY FORM

CLIENT: NORTH AIR - MINTO PROJECT
 ADDRESS: #860-1025 HOWE ST
 CITY: VANCOUVER PROV.: B.C. POSTAL CODE: V6C 2T6
 TELEPHONE: 697-7545 FAX: 699-5041 CONTACT: B. McLEOD
 PROJECT NAME & NO.: _____ SAMPLER: GIBSON
 QUOTE NO.: ALSEQ05-217 PO NO.: _____ ALS CONTACT: C. DANG
 REPORT FORMAT: HARDCOPY EMAIL - ADDRESS: see attached.
 FAX EXCEL PDF OTHER: _____

ANALYSIS REQUESTED:

SAMPLE IDENTIFICATION	DATE / TIME COLLECTED		MATRIX	TOTAL CN	GEN CHEM	RADIUM 226	NH4	TOTAL METAL ICP/MS	DISS METALS ICP/MS	NOTES (sample specific comments, due dates, etc.)									
	YYYY-MM-DD	TIME																	
MINTO W-1	05-08-29	-	H2O	✓	✓	✓	✓	✓	✓	CN + NOOH									
H-2	05-08-30	-	H2O	✓	✓	✓	✓	✓	✓	RADIUM + Nitric									
H-3	05-08-29		"	✓	✓	✓	✓	✓	✓	NH4 + Sulphuric									
W-9	"		"	✓	✓	✓	✓	✓	✓	Metals + Nitric									
W-10	"		"	✓	✓	✓	✓	✓	✓	DISS METALS - filter									
W-4	05-08-30		"		✓		✓	✓	✓	filtered									
W-5	"				✓		✓	✓	✓										
W-6	"				✓		✓	✓	✓										
W-7	"				✓		✓	✓	✓										
W-8	"				✓		✓	✓	✓										

FOR LAB USE ONLY

TURN AROUND REQUIRED: ROUTINE RUSH - SPECIFY DATE: _____ (surcharge may apply)

SEND INVOICE TO: SAME AS REPORT DIFFERENT FROM REPORT (provide details below) INVOICE FORMAT: HARDCOPY PDF FAX

SPECIAL INSTRUCTIONS:

RELINQUISHED BY:	DATE	RECEIVED BY:	DATE
	TIME		TIME
RELINQUISHED BY:	DATE	RECEIVED BY:	DATE
	TIME		TIME

FOR LAB USE ONLY		
COOLER SEAL INTACT?	SAMPLE TEMPERATURE: _____ °C	COOLING METHOD?
<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	FROZEN? <input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> ICEPACKS <input type="checkbox"/> ICE <input type="checkbox"/> NONE



SEND REPORT TO:

CHAIN OF CUSTODY FORM

CLIENT: NORMAN AIR - MIATO PROJECT
ADDRESS:
CITY: PROV.: POSTAL CODE:
TELEPHONE: FAX: CONTACT:
PROJECT NAME & NO.: SAMPLER:
QUOTE NO.: PO NO.: ALS CONTACT:
REPORT FORMAT: [] HARDCOPY [] EMAIL - ADDRESS:
[] FAX [] EXCEL [] PDF [] OTHER:

ANALYSIS REQUESTED:

Table with columns for ANALYSIS REQUESTED (GEN CHEM, NH4, TOTAL METALS, DISSEMETALS) and rows for SAMPLE IDENTIFICATION (PQ3E, PQ4-20), DATE / TIME COLLECTED (05-08-29), and MATRIX (H2O). Includes checkboxes for analysis types.

FOR LAB USE ONLY

TURN AROUND REQUIRED: [x] ROUTINE [] RUSH - SPECIFY DATE: (surcharge may apply)

SEND INVOICE TO: [] SAME AS REPORT [] DIFFERENT FROM REPORT (provide details below)
INVOICE FORMAT: [] HARDCOPY [] PDF [] FAX

SPECIAL INSTRUCTIONS:

RELINQUISHED BY: DATE TIME RECEIVED BY: DATE TIME
RELINQUISHED BY: DATE TIME RECEIVED BY: DATE TIME

FOR LAB USE ONLY
COOLER SEAL INTACT? [] YES [] NO [] N/A SAMPLE TEMPERATURE: °C FROZEN? [] YES [] NO COOLING METHOD? [] ICEPACKS [] ICE [] NONE

October 4, 2005

**TO: Rob McIntyre / Dan Cornett
Access Consulting Group**

Fr: John Gibson

**RE: Minto Creek Site Survey September 28/29,2005
Site Data and Observations**

Minto Sites:

Minto Creek sites were surveyed September 28 and 29, 2005 by John Gibson and Bonnie Huebschwerlen (Acting Lands Manager – Selkirk FN)

Minto Creek was accessed from Minto Landing by boat (Heinz Sauer) and the on site truck.

As in the four previous surveys, a total of 12 water quality/hydrology stations were sampled during the survey – two groundwater piezometers (P94-20 and P93E), two Yukon River receiving waters (W4 and W5), five Minto Creek main stem stations (W10, W9, HW3, HW2, W1) and three tributary sites (W8, W7, W6).

Water Quality Samples:

All stations were sampled for total and dissolved metals (ICP-MS scan), ammonia and general chemistry (pH, conductivity, TSS, TDS, total alkalinity, total hardness, chloride, sulphate, nitrate and nitrite nitrogen).

All Minto Creek main stem stations (W1,HW2,HW3,W9 and W10) were also sampled for total cyanide and total radium 226.

Station W-9 was again sampled 50 meters upstream of previous site to avoid a new drill site with some disturbance to the stream channel.

All surface water samples were grab samples.

Groundwater piezometer stations were purged with a Waterra pump prior to sampling.

Station P93E was purged 3 hrs (440 liters) prior to sampling. Static water level at start was 25.84 meters, at completion 44.97 meters.

Station P94-20 was purged 1.5 hrs (200 liters) prior to sampling. Static water level at start was 15.68 meters, at completion 15.70 meters.

General chemistry samples were taken in a 1 liter plastic bottle (no preservative)

Total metals samples were taken in a 125 mL plastic bottle preserved with nitric acid

Dissolved metal samples were filtered (0.45 mm syringe filter) into a 125 mL plastic bottle and preserved with nitric acid.

Ammonia samples for main stem stations were taken in a 250 mL amber glass bottle and preserved with sulphuric acid.

Total cyanide samples were taken in a 1 liter plastic bottle and preserved with 6-8 pellets of NaOH.

Radium 226 samples were taken in a 1 liter plastic bottle, preserved with 10 ml nitric acid.

Samples were kept at 4 Celsius with ice packs and shipped via air cargo on October 2 for arrival at ALS on Monday October 3.

ALS was reminded to be more prompt in sending analysis results – again instructed to send analysis reports to Access Consulting (Email pdf file), B. McLeod at Sherwood Mines (Email pdf file) and John Gibson (hardcopy by mail).

Data Logger Installation

The data logger installation at Station W-1 was checked but not downloaded.

Flow Volume Measurements:

Flow volume measurements were taken using a Price Velocity meter at main stem stations W-1, HW-2 and HW-3. All other sites were estimated based on the measured flows.

Station	Date			
	<i>June 30</i>	<i>July 28/29</i>	<i>Aug 29/30</i>	<i>Sept 28/29</i>
W1	0.012 cm/s (E)	0.011 cm/s	0.061 cm/s	0.118 cm/s
W2	0.012	0.011	0.061	0.111
W3	0.008	0.014	0.017	0.022
W6	0.002 (E)	0.005 (E)	0.005 (E)	0.005 (E)
W7	0.005 (E)	0.005 (E)	0.010 (E)	0.010 (E)
W8	0.005 (E)	0.007 (E)	0.005 (E)	0.005 (E)
W9	0.010 (E)	0.015 (E)	0.010 (E)	0.007 (E)
W10	<0.001 (E)	<0.001 (E)	<0.001 (E)	<0.001 (E)

(E) = Estimated

Next Survey : Tentatively scheduled for October 15/16 (prior to camp demob and freeze up). Contacted Minto camp October 4 with dates – to confirm October 11. Proposed site work – water quality samples 10 surface water sites, purge and sample 2 piezometers, flows measurements at W1 , HW3 and W2. Remove water level data logger @ Station W-1, return equip to Whse for downloading /storage. Improve trail to W1 logger site. Download weather station.

Attached:

- 1. ALS Chain Of Custody forms**
- 2. Flow Calibration / calculation sheets**

JOHN

SEND REPORT TO:

CLIENT: NORTH AIR - MINTO PROJECT

ADDRESS: #860 - 625 HOWE ST.

CITY: VAN PROV.: BC POSTAL CODE: V6C 2T6

TELEPHONE: 607-7545 FAX: 689-5041 CONTACT: B. McLEOD.

PROJECT NAME & NO.: _____ SAMPLER: _____

QUOTE NO.: ALSEQ05-217 PO NO.: _____ ALS CONTACT: G. DANG.

REPORT FORMAT: HARDCOPY EMAIL - ADDRESS: _____

FAX EXCEL PDF OTHER: _____

CHAIN OF CUSTODY FORM

PAGE 1 OF _____

ANALYSIS REQUESTED:

SAMPLE IDENTIFICATION	DATE / TIME COLLECTED		MATRIX	ANALYSIS REQUESTED							NOTES (sample spc comments, due date)
	YYYY-MM-DD	TIME		GEN CHEM (10)	NH4 (250 GLASS)	TOTAL METALS (100ml)	DISS. METALS (100ml)	CN-TOTAL (10)	RADIUM 226 (10)		
MINTO W-1	Sept 28		H2O	✓	✓	✓	✓	✓	✓		ALL NH4 + Sulph Metals + N R. 226 + Ni CN + Na DISS. METALS FIELD AC
H-2	29		SURFACE	✓	✓	✓	✓	✓	✓		
H-3	2005.			✓	✓	✓	✓	✓	✓		
W-4				✓	✓	✓	✓				
W-5				✓	✓	✓	✓				
W-6				✓	✓	✓	✓				
W-7				✓	✓	✓	✓				
W-8				✓	✓	✓	✓				
W-9				✓	✓	✓	✓	✓	✓		
W-10				✓	✓	✓	✓	✓	✓		

FOR LAB USE ONLY

TURN AROUND REQUIRED: ROUTINE RUSH - SPECIFY DATE: _____ (surcharge may apply)

SEND INVOICE TO: SAME AS REPORT DIFFERENT FROM REPORT (provide details below) INVOICE FORMAT: HARDCOPY PDF FAX

SPECIAL INSTRUCTIONS:

REPORTS - ELECTRONIC PDF TO NORTH AIR + ACCESS CONSULTING.
 - HARDCOPY TO J. GIBSON BOX 2011 WILSE PT V1A 7A2

RELINQUISHED BY: <u>J. GIBSON</u>	DATE <u>2/10/05</u>	RECEIVED BY:	DATE
	TIME		TIME
RELINQUISHED BY:	DATE	RECEIVED BY:	DATE
	TIME		TIME

FOR LAB USE ONLY

COOLER SEAL INTACT? YES NO N/A SAMPLE TEMPERATURE: _____ °C COOLING METHOD? ICEBACKS ICE

FROZEN? YES NO



SEND REPORT TO:

CLIENT: NORTHAIR - MINTO PROJECT

CHAIN OF CUSTODY FORM

PAGE 1

ADDRESS: #860 - 625 HOWE ST.

CITY: VAN PROV.: BC POSTAL CODE: V6C 2T6

TELEPHONE: 607-7545 FAX: 689-5041 CONTACT: B. McLEOD.

PROJECT NAME & NO.: _____ SAMPLER: _____

QUOTE NO.: AISEQ05-217 PO NO.: _____ ALS CONTACT: G. DAAG.

REPORT FORMAT: HARDCOPY EMAIL - ADDRESS: _____

FAX EXCEL PDF OTHER: _____

ANALYSIS REQUESTED:

GEN CHEM (10)	NH4 (250 GLASS)	TOTAL METALS (100ml)	DISS. METALS (100ml)	CN-TOTAL (10)	RADIUM 226 (10)	NOTES (sample comments, due to)
✓	✓	✓	✓	✓	✓	ALL NH4 + SUL
✓	✓	✓	✓	✓	✓	Metals +
✓	✓	✓	✓	✓	✓	R. 226 + 1
✓	✓	✓	✓	✓	✓	CN + N
✓	✓	✓	✓	✓	✓	
✓	✓	✓	✓	✓	✓	
✓	✓	✓	✓	✓	✓	DISS. MET FIELD #
✓	✓	✓	✓	✓	✓	
✓	✓	✓	✓	✓	✓	

FOR LAB USE ONLY	SAMPLE IDENTIFICATION		DATE/TIME COLLECTED		MATRIX
	MINTO W-1	H-2	YYYY-MM-DD	TIME	H2O, SURFACE
			Sept 28		
	H-3				
	W-4				
	W-5				
	W-6				
	W-7				
	W-8				
	W-9				
	W-10				

TURN AROUND REQUIRED: ROUTINE RUSH - SPECIFY DATE: _____ (surcharge may apply)

SEND INVOICE TO: SAME AS REPORT DIFFERENT FROM REPORT (provide details below) INVOICE FORMAT: HARDCOPY PDF FAX

SPECIAL INSTRUCTIONS:
REPORTS - ELECTRONIC PDF TO NORTHAIR + ACCESS CONSULTING.
- HARDCOPY TO J. GIBSON BOX 2011 WHESE ST VIA 7A2

RELINQUISHED BY: <u>J. GIBSON</u>	DATE <u>2/10/05</u>	RECEIVED BY:	DATE
	TIME		TIME
RELINQUISHED BY:	DATE	RECEIVED BY:	DATE
	TIME		TIME

FOR LAB USE ONLY		
COOLER SEAL INTACT? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	SAMPLE TEMPERATURE: _____ °C FROZEN? <input type="checkbox"/> YES <input type="checkbox"/> NO	COOLING METHOD? <input type="checkbox"/> ICEPACKS <input type="checkbox"/> ICE

CHAIN OF CUSTODY FORM

SEND REPORT TO: _____
 CLIENT: NORTAIR - MINTO PROJECT
 ADDRESS: _____
 CITY: _____ PROV.: _____ POSTAL CODE: _____
 TELEPHONE: _____ FAX: _____ CONTACT: _____
 PROJECT NAME & NO.: _____ SAMPLER: _____
 QUOTE NO.: _____ PO NO.: _____ ALS CONTACT: _____
 REPORT FORMAT: HARDCOPY EMAIL - ADDRESS: _____
 FAX EXCEL PDF OTHER: _____

ANALYSIS REQUESTED:

SAMPLE IDENTIFICATION	DATE/TIME COLLECTED		MATRIX	ANALYSIS REQUESTED										NOTES (sample specific comments, due dates, etc.)			
	YYYY-MM-DD	TIME		GEN CHEM (10)	NH4 (250 glass)	TOTAL METALS (100ml)	DISS METALS (100ml)										
MINTO P3E	Sept 28		H2O	✓	✓	✓	✓										ALL METALS + Nitric
	+ 29		Ground														NH4 + Sulphuric
P94-20				✓	✓	✓	✓										ALL DISS METALS FROD FILTERED

TURN AROUND REQUIRED: ROUTINE RUSH - SPECIFY DATE: _____ (surcharge may apply)

SEND INVOICE TO: SAME AS REPORT DIFFERENT FROM REPORT (provide details below)
 INVOICE FORMAT: HARDCOPY PDF FAX

SPECIAL INSTRUCTIONS: _____

RELINQUISHED BY: <u>GIBSON</u>	DATE <u>2/10/05</u>	RECEIVED BY:	DATE
	TIME		TIME
RELINQUISHED BY:	DATE	RECEIVED BY:	DATE
	TIME		TIME

FOR LAB USE ONLY

COOLER SEAL INTACT? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	SAMPLE TEMPERATURE: _____ °C FROZEN? <input type="checkbox"/> YES <input type="checkbox"/> NO	COOLING METHOD? <input type="checkbox"/> ICEPACKS <input type="checkbox"/> ICE <input type="checkbox"/> NONE
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SEND REPORT TO:

CLIENT: NORTHAIR - MINTO PROJECT

CHAIN OF CUSTODY FORM

ADDRESS: _____
CITY: _____ PROV.: _____ POSTAL CODE: _____
TELEPHONE: _____ FAX: _____ CONTACT: _____
PROJECT NAME & NO.: _____ SAMPLER: _____
QUOTE NO.: _____ PO NO.: _____ ALS CONTACT: _____
REPORT FORMAT: HARDCOPY EMAIL - ADDRESS: _____
 FAX EXCEL PDF OTHER: _____

ANALYSIS REQUESTED:

SAMPLE IDENTIFICATION	DATE / TIME COLLECTED		MATRIX	GEN CHEM (10)	NH4 (250 g/l)	TOTAL METALS (100ml)	DISS METALS (100ml)	NOTES (sample specific comments, due dates, etc.)									
	YYYY-MM-DD	TIME															
MINTO PABE	Sept 28		H2O	✓	✓	✓	✓	ALL METALS + NITRIC									
	29		Ground					NH4 + Sulphuric									
P94-20				✓	✓	✓	✓	ALL DISS METALS FIELD FILTERED									

TURN AROUND REQUIRED: ROUTINE RUSH - SPECIFY DATE: _____ (surcharge may apply)

SEND INVOICE TO: SAME AS REPORT DIFFERENT FROM REPORT (provide details below)
INVOICE FORMAT: HARDCOPY PDF FAX

SPECIAL INSTRUCTIONS: _____

RELINQUISHED BY: <u>GIBSON</u>	DATE <u>2/10/05</u>	RECEIVED BY:	DATE
	TIME		TIME
RELINQUISHED BY:	DATE	RECEIVED BY:	DATE
	TIME		TIME

FOR LAB USE ONLY

COOLER SEAL INTACT? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	SAMPLE TEMPERATURE: _____ °C FROZEN? <input type="checkbox"/> YES <input type="checkbox"/> NO	COOLING METHOD? <input type="checkbox"/> ICEPACKS <input type="checkbox"/> ICE <input type="checkbox"/> NONE
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October 19, 2005

**TO: Rob McIntyre / Dan Cornett
Access Consulting Group**

Fr: John Gibson

**RE: Minto Creek Site Survey October 15/16, 2005
Site Data and Observations**

Minto Sites:

Minto Creek sites were surveyed October 15 and 16, 2005 by John Gibson. This was scheduled as the final water quality survey of 2005.

Minto Creek was accessed from Minto Landing by boat (Heinz Sauer) and the on site truck.

As in the previous surveys, a total of 12 water quality/hydrology stations were sampled during the survey – two groundwater piezometers (P94-20 and P93E), two Yukon River receiving waters (W4 and W5), five Minto Creek main stem stations (W10, W9, HW3, HW2, W1) and three tributary sites (W8, W7, W6).

Water Quality Samples:

All stations were sampled for total and dissolved metals (ICP-MS scan), ammonia and general chemistry (pH, conductivity, TSS, TDS, total alkalinity, total hardness, chloride, sulphate, nitrate and nitrite nitrogen).

All Minto Creek main stem stations (W1, HW2, HW3, W9 and W10) were also sampled for total cyanide and total radium 226.

Station W-9 was again sampled 50 meters upstream of previous site to avoid a new drill site with some disturbance to the stream channel.

All surface water samples were grab samples.

Groundwater piezometer stations were purged with a Waterra pump prior to sampling. Station P93E was purged 3 hrs (450 liters) prior to sampling. Static water level at start was 25.66 meters, at completion 46.32 meters.

Station P94-20 was purged 2.0 hrs (280 liters) prior to sampling. Static water level at start was 15.71 meters, at completion 15.74 meters.

General chemistry samples were taken in a 1 liter plastic bottle (no preservative)

Total metals samples were taken in a 125 mL plastic bottle preserved with nitric acid

Dissolved metal samples were filtered (0.45 mm syringe filter) into a 125 mL plastic bottle and preserved with nitric acid.

Ammonia samples were taken in a 250 mL amber glass bottle and preserved with sulphuric acid.

Total cyanide samples were taken in a 1 liter plastic bottle and preserved with 6-8 pellets of NaOH.

Radium 226 samples were taken in a 1 liter plastic bottle, preserved with 10 ml nitric acid.

Samples were kept at 4 Celsius with ice packs and shipped via air cargo on Monday October 17 for arrival at ALS on Tuesday, October 18.

Data Logger Installation

The data logger installation at Station W-1 was removed for download and winter storage at Access Consulting in Whitehorse. Ice had formed in the transducer's protective pipe as well as anchor and shelf ice in the stream channel cross section.

Flow Volume Measurements:

Flow volume measurements were taken using a Price Velocity meter at main stem stations W-1, HW-2 and HW-3. All other sites were estimated based on the measured flows. Flow calculation sheets are attached. All sites were under "ice effect" during this survey.

Station	Date				
	June 30	July 28/29	Aug 29/30	Sept 28/29	Oct 15/16
W1	0.012 cm/s (E)	0.011 cm/s	0.061 cm/s	0.118 cm/s	0.054 cms
W2	0.012	0.011	0.061	0.111	0.061
W3	0.008	0.014	0.017	0.022	0.020
W6	0.002 (E)	0.005 (E)	0.005 (E)	0.005 (E)	0.003 (E)
W7	0.005 (E)	0.005 (E)	0.010 (E)	0.010 (E)	0.005 (E)
W8	0.005 (E)	0.007 (E)	0.005 (E)	0.005 (E)	0.003 (E)
W9	0.010 (E)	0.015 (E)	0.010 (E)	0.007 (E)	0.010 (E)
W10	<0.001 (E)	<0.001 (E)	<0.001 (E)	<0.001 (E)	<0.001 (E)

(E) = Estimated

Next Survey : Tentatively scheduled for after freeze up (January / February 2006) when river frozen and access possible by snow machine.

Attached:

- 1. ALS Chain Of Custody forms**
- 2. Flow Calibration / calculation sheets**

JOHN

STAFF GAUGE - DISCHARGE CALIBRATION

Project: Minto Creek

Date: October 16, 2005

Site ID: HW-3 @ Dam Site

Distance (m)	Depth (m)	Velocity (m/s)	Width (m)	Area (m.sq)	Discharge (cms)
3.95	0	0	0.075	0	0
4.1	0.1	0.178	0.125	0.0125	0.0022
4.2	0.13	0.158	0.1	0.013	0.0021
4.3	0.14	0.245	0.1	0.014	0.0034
4.4	0.15	0.203	0.1	0.015	0.003
4.5	0.12	0.051	0.1	0.012	0.0006
4.6	0.1	0.195	0.1	0.01	0.0020
4.7	0.08	0.203	0.1	0.008	0.001624
4.8	0.07	0.203	0.1	0.007	0.001421
4.9	0.07	0.148	0.1	0.007	0.001036
5	0.08	0.137	0.1	0.008	0.001096
5.1	0.08	0.129	0.125	0.01	0.00129
5.25	0.04	0.029	0.175	0.007	0.000203
5.45	0.05	0.059	0.15	0.0075	0.000443
5.55	0	0	0.05	0	0

Total	1.6		1.600	0.131	0.020429
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S.G @ start: no staff gauge S.G. @ End:

Data Logger Reading: no logger at site

Channel under ice yes shelf and anchor ice in x-section

Method: Price velocity meter

Crew: J. Gibson



ALS Environmental
excellence in analytical testing

1988 Triumph Street, Vancouver, BC Canada V5L 1K5 Tel: 604-253-4188 Toll Free: 1-800-665-0243 Fax: 604-253-6700
 #2 - 21 Highfield Circle SE, Calgary, AB Canada T2G 5N6 Tel: 403-214-5431 Toll Free: 1-866-722-6231 Fax: 403-214-5430
 #2 - 8820 100th Street, Fort St. John, BC Canada V1J 3W9 Tel: 250-785-8281 Fax: 250-785-8286

35151

SEND REPORT TO:

CLIENT: NORTH AIR - MINTO PROJECT

ADDRESS: #860 - 625 HOWE ST.

CITY: VANCOUVER PROV.: BC POSTAL CODE: V1A1C 2T6

TELEPHONE: 604-7545 FAX: 604-5041 CONTACT: B. McLEOD

PROJECT NAME & NO.: _____ SAMPLER: _____

QUOTE NO.: ALSF05-217 PO NO.: _____ ALS CONTACT: G. DANG

REPORT FORMAT: HARDCOPY EMAIL - ADDRESS: _____
 FAX EXCEL PDF OTHER: _____

CHAIN OF CUSTODY FORM

PAGE 1 OF 2

ANALYSIS REQUESTED:

SAMPLE IDENTIFICATION	DATE / TIME COLLECTED		MATRIX	GEN CHEM (10)	NH4 (250 GLASS)	TOTAL METALS (125ml)	DISS METALS (125ml)	CN-TOTAL (10)	RADIUM 226 (10)	Other	Notes
	YYYY-MM-DD	TIME									
MINTO W-1	00T15		H ₂ O	✓	✓	✓	✓	✓	✓		NH4 + Sulphuric METALS + Nitric R226 + Nitric CN + NaOH DiMetals field filtered.
HW-2	110		↓	✓	✓	✓	✓	✓	✓		
HW-3	↓		SURFACE	✓	✓	✓	✓	✓	✓		
W-4				✓	✓	✓	✓	✓	✓		
W-5				✓	✓	✓	✓	✓	✓		
W-6				✓	✓	✓	✓	✓	✓		
W-7				✓	✓	✓	✓	✓	✓		
W-8				✓	✓	✓	✓	✓	✓		
W-9				✓	✓	✓	✓	✓	✓		
W-10				✓	✓	✓	✓	✓	✓		

FOR LAB USE ONLY

TURN AROUND REQUIRED: ROUTINE RUSH - SPECIFY DATE: _____ (surcharge may apply)

SEND INVOICE TO: SAME AS REPORT DIFFERENT FROM REPORT (provide details below)
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SPECIAL INSTRUCTIONS:
REPORTS AS PREVIOUS DATES.

RELINQUISHED BY: <u>J. Gibson</u>	DATE <u>1709</u>	RECEIVED BY:	DATE
	TIME		TIME
RELINQUISHED BY:	DATE	RECEIVED BY:	DATE
	TIME		TIME

FOR LAB USE ONLY		
COOLER SEAL INTACT? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	SAMPLE TEMPERATURE: _____ °C FROZEN? <input type="checkbox"/> YES <input type="checkbox"/> NO	COOLING METHOD? <input type="checkbox"/> ICEPACKS <input type="checkbox"/> ICE <input type="checkbox"/> NONE

SEND REPORT TO:

CLIENT: NORTH AIR-MINTO PROJECT

CHAIN OF CUSTODY FORM

PAGE 2 OF 2

ADDRESS: _____

CITY: _____ PROV.: _____ POSTAL CODE: _____

TELEPHONE: _____ FAX: _____ CONTACT: _____

PROJECT NAME & NO.: _____ SAMPLER: _____

QUOTE NO.: _____ PO NO.: _____ ALS CONTACT: _____

REPORT FORMAT: HARDCOPY EMAIL - ADDRESS: _____

FAX EXCEL PDF OTHER: _____

ANALYSIS REQUESTED:

SAMPLE IDENTIFICATION	DATE / TIME COLLECTED		MATRIX	ANALYSIS REQUESTED				NOTES (sample specific comments, due dates, etc.)
	YYYY-MM-DD	TIME		GRAV CHEM (10)	NH4 (250 GUFFS)	TOTAL METALS (125 ml)	DISS METALS (125 ml)	
MINTO P43E	06/15		H ₂ O FIELD	✓	✓	✓	✓	
P94-20	06/16		H ₂ O FIELD	✓	✓	✓	✓	

TURN AROUND REQUIRED: ROUTINE RUSH - SPECIFY DATE: _____ (surcharge may apply)

SEND INVOICE TO: SAME AS REPORT DIFFERENT FROM REPORT (provide details below) INVOICE FORMAT: HARDCOPY PDF FAX

SPECIAL INSTRUCTIONS:

RELINQUISHED BY: <u>J. Gals</u>	DATE <u>17/06/07</u>	RECEIVED BY:	DATE
	TIME		TIME
RELINQUISHED BY:	DATE	RECEIVED BY:	DATE
	TIME		TIME

FOR LAB USE ONLY		
COOLER SEAL INTACT?	SAMPLE TEMPERATURE: _____ °C	COOLING METHOD?
<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	FROZEN? <input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> ICEPACK <input type="checkbox"/> ICE <input type="checkbox"/> NONE

FOR LAB USE ONLY