

Pelly River Aquatic Ecosystem Monitoring Program 2010 Summary



Prepared by:



December 2010



A MEMBER OF ALEXCO RESOURCE GROUP

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January 17, 2011

RE: Pelly River Aquatic Ecosystem Monitoring Program 2010 Summary

The following is a summary of the field sampling undertaken for the Pelly River Interim Aquatic Ecosystem Monitoring Plan (IAEMP) and the Pelly River Aquatic Ecosystem Monitoring Plan (AEMP) for the year of 2010.

During the 2010 calendar year the surface water quality monitoring work undertaken by Selkirk First Nation (SFN) and Access Consulting Group (ACG) evolved based on recommendations from the expert technical advisors involved in analyzing the results of the IAEMP and planning the AEMP. In the fall of 2010 the monitoring program changed from the IAEMP to the AEMP.

Access Consulting Group was involved in a number of aspects of this program, including the following:

- Development of updated workplans for the Interim Aquatic Affects Sampling Program (May 2010) and for the Long-term Aquatic Affects Monitoring Program (October 2010);
- Coordination and management of the Surface Water Quality Surveillance Program including supplying all necessary field sampling equipment and transportation from Whitehorse and Pelly Crossing to Faro;
- Meeting all the logistical requirements for field sampling (mobilization and demobilization of equipment and personnel for field sampling events, lodging, meals, helicopter transportation, notification to mine-site, sample mobilization and preparation, and external analytical laboratory communications);
- Participation in all field sampling including training of SFN members in field sampling protocols and techniques; and
- Review of all data returned from the laboratory including a quality Assurance/Quality Control review and transfer of all data into an EQWin database for all water quality database for the AAMP.

Monitoring events occurred in January, February, March, May, August and November. Until March 2010 the IAEMP called for monthly sampling events. In March the IAEMP

was renewed and a new monitoring work plan was to be submitted, with changes based on the recommendations of the technical advisors. After March 2010 the sampling frequency was dropped to 6 times per year. It was determined that results analysis would be for useful if the frequency of sampling was increased during the more variable ice-free summer months and decreased during the lower frequency winter months. This resulted in a May freshet sampling event, and June and August sampling events. In October, with the implementation of the AEMP, the frequency was dropped to 3 times annually (spring freshet, summer low flows, and winter low flows). The November sampling event represents the first sampling event under the AEMP. Based on recommendations of the technical advisors changes to the stations to be sampled occurred prior to most sampling events.

Attached are the following:

1. Workplans
2. Sample stations
3. Trip reports and analytical laboratory results
4. Laboratory results compared to the CMME guidelines (tables and graphs of parameters of particular concern at select sample stations)

**Pelly River Aquatic Ecosystem
Monitoring Program
2010 Summary**

Work Plans

Workplan - Draft
Interim Aquatic Ecosystem Monitoring Program
Faro and Vangorda Mine Sites

May 2010

1. Background

The Faro Mine is located at the headwaters of the Rose/Anvil Creeks and Vangorda Creek and within the traditional territory of the Ross River Dena Council (RRDC). These creeks eventually drain into the Pelly River, an important resource for the Selkirk First Nation (SFN) as it flows through SFN traditional territory. Both the RRDC and the SFN have expressed concern for water quality and possible effects to the aquatic ecosystem in the drainages affected by the Faro Mine complex.

In 2000, the SFN Lands and Resource Branch commenced aquatic environmental studies in their traditional territory. The first water quality Investigation was undertaken in 2001 by Laberge Environmental Services (LES). Follow up water quality sampling occurred in 2002, and again in 2003. Specific fisheries investigations in the Pelly River drainages have also been undertaken by SFN. These included the collection of baseline information on Pelly River broad whitefish and their migration within the Tatlain/Mica Creek and Pelly River drainages, in 2001 by Can-nic-a-nick Environmental and fish habitat assessments in Pelly River streams which included whitefish and salmon DNA analysis by White Mountain Environmental Consultants.

In 2004, SFN, Access Consulting Group (ACG), LES and White Mountain Environmental Consulting (WMEC) in cooperation with the Faro Mine Remediation Program Office (Type II Office) initiated Aquatic Effects Assessment programs on Anvil Creek and the Pelly River. Specific technical data on stream water quality, metals levels in sediments, soils, benthos and fisheries in waters downstream of the Faro Mine complex was collected. Benthos and fisheries utilization in Anvil Creek was characterized. The Anvil Creek sites were also assessed for metals levels within the soil horizons at stations located across the stream floodplain to document possible effects from the historic tailings release from the mine site. The assessment built upon SFN's existing database and enabled an assessment of downstream effects from the Faro mine site on waters flowing through their traditional territory (Access Consulting Group. 2007).

The Aquatic Effects Assessment program continued in 2005 and 2006 collecting additional data utilizing established stations and protocols. As in 2004, technical data was collected on stream water quality, metals levels in sediments, soils, benthos and fisheries in waters downstream of the Faro Mine complex. The data gathered during the 2004, 2005 and 2006 program was utilized as part of the Faro mine closure environmental effects studies (Access Consulting Group. 2007).

In 2006, the Faro Mine Closure Planning Office initiated a comprehensive review of monitoring programs at the Faro and Vangorda mine sites. The objective of this project, conducted by Minnow Environmental, was to design a comprehensive monitoring program for the Faro Mine complex, considering data needs for the development

assessment and regulatory processes in the short-term and for closure plan implementation and evaluation in the long-term.

Minnow also initiated work on the development of site-specific water quality objectives for Rose and Vangorda Creeks. These site-specific objectives will be used to guide closure activities and to evaluate potential effects of closure plan implementation.

Both of these projects are key components of the closure planning process. Initial work on these projects has identified an immediate need to revise and supplement the monitoring programs currently under way (Minnow Environmental. 2007). While the changes may be short-term, they are considered critical to establishing effective long-term monitoring programs and developing defensible site-specific water quality objectives.

In recognition of the need to understand seasonal variability in reference conditions including winter base flow conditions, an initial round of sampling for additional stations with analyses at improved detection limits was completed in March 2007. This program was then continued through 2007 to March 2010 using these same stations with the improved detection limits.

Water Quality (WQ) data collected during the sampling program described above was analysed and used along with WQ data collected by Dennison Environmental to develop a long-term water quality monitoring strategy (Minnow Environmental 2009). This strategy along with discussions resulting from a technical committee workshop (April 2010) combined with meeting the environmental security interests of SFN with respect to water quality in the downstream environment were used to develop this current workplan.

1.1 Reports Referenced:

Minnow Environmental. 2007. "Aquatic Ecosystem Monitoring Program, Faro Mine, Yukon". DRAFT. Prepared for: Faro Mine Closure Office.

Access Consulting Group & Laberge Environmental Services. 2007. "Pelly River Aquatic Effects Assessment". Prepared for: Selkirk First Nation.

Minnow Environmental, 2009. "Aquatic Ecosystem Monitoring Program, Faro Mine, Yukon (Updated 2009) Draft.

2. Rationale

As part of the monitoring review and site-specific objectives projects, Minnow has reviewed and analyzed surface water quality, sediment, benthic invertebrate and fish data from reference areas, receiving water and loading sources. The initial work has demonstrated that the data set, though extensive, is not robust in some key areas (Minnow Environmental. 2007).

Most significantly, there are insufficient data from reference stations to facilitate a strong understanding of reference conditions (Minnow Environmental. 2007). Improved characterization of reference conditions will require sampling from additional stations, increased sampling frequencies (to characterize seasonal variation) and improved method detection limits. Prior to March 2007 the method detection limits (MDLs) for several contaminants that may be relevant at the site were not sufficient to allow comparison with water quality guidelines.

Prior to March 2007 monitoring improvements were also required for receiving water stations. Improved MDLs for several parameters were required in order to understand whether there are impacts from the mine. As with reference areas, the MDLs needed to be sufficiently low to allow comparison to water quality guidelines. Some receiving water stations also required increased monitoring frequencies to allow characterization of seasonal variation. Without consistent monitoring frequencies for all key reference and receiving water stations, the results of analyses can be biased by the number of samples and the timing for sample collection. This monitoring program has begun and is recommended for continuation until March 2011 to improve the reference data set and provide a clear picture of existing conditions over time.

The 2010 program will be modified to remove sites where there is overlap with the sampling undertaken by Dennison Environmental Services.

The goal of this workplan is to outline the interim changes to the aquatic ecosystem monitoring program in order to meet the goals of the LTMP. To fully develop the LTMP several additional components and studies will be required to fill information gaps. This data collection will be implemented as part of the Interim Aquatic Ecosystem Monitoring Program (IAEMP) from 2007 – 2010. This workplan details the budget, personnel and strategy to complete this IAEMP.

3. Surface Water Monitoring

Table 1 and Figure 1 summarizes the changes to sample locations and sample frequency for the interim water quality monitoring program. Recommended changes to the existing water quality monitoring proposed in 2007 and modified in 2008 and 2009 include:

- Elimination of surface water monitoring stations that are not required by licence and do not meet specified criteria.
- An increase to the number of reference stations to develop or update background benchmarks

- A decrease in sampling frequencies to bi-monthly to reduce the cost while generating enough data to permit characterization of seasonal variability and allow the optimum frequency and timing of water sample collection for the Long Term Monitoring Plan (LTMP) to be determined. See Table 1 'Summary of Sample Stations and Frequency at Faro during IAEMP' to see which sites' sample frequencies will change and a description of the stations.
- Evaluate the potential for concentrations of antimony, boron, beryllium, chromium, mercury, molybdenum, selenium, tin, thallium, uranium, or vanadium to exceed Canadian water quality guidelines (CWQG), or alternative toxicity-based benchmarks, in surface waters in the future
- Ensure laboratory method detection limits are sufficiently low to permit meaningful comparison to CWQG
- Field measurements and sampling methods for water quality will be performed as outlined in "Aquatic Ecosystem Monitoring Program, Faro, Yukon" (Minnow Environmental Inc., June 2007, Draft) to maintain operating standards. These standards are found specifically in Appendix A 'Standard Operating Procedures, Field Measurements' and Appendix B 'Standard Operating Procedures, Sampling Methods' of Minnow's report.
- Dennison Environmental Services will continue their water quality monitoring program as per the Water Use Licence. This has resulted in redundant sampling and these redundant sites have been removed from the IAEMP to reduce overlap.

Table 1 outlines the station locations that will be sampled Selkirk First Nation with Access Consulting Group in the IAEMP. The 2007 plan called for 8 additional sites were added to be added the monitoring schedule, 21 stations retained for continuation, 28 stations eliminated and 19 stations (above) had their monitoring frequency changed to monthly. The 2010 revision calls for 9 sites for surface water monitoring during the IAEMP by Selkirk First Nation with Access Consulting Group. Results from all samples will be examined for LTMP. Sampling will follow protocol for water quality collection and flows.

Table 1 Summary of Sample Stations and Frequency at Faro during IAEMP

| Water Body | Database Station ID | Station Description | License Requirement | Frequency Stipulated in Licence | To Be Sampled By | Recommended Frequency | Historical Monitoring (start, frequency) |
|-------------------------------|---------------------|---|---------------------|---------------------------------|------------------|-----------------------|--|
| Faro Creek Area | FC | Faro Creek above diversion channel | - | - | SFN/ACG | Bi-monthly | 88 to '96, 0-15 times per year, monthly since September 2007 |
| Rose Creek Downstream of Mine | X14 | Rose Creek downstream of the diversion channel | ✓ | Weekly when discharging | SFN/ACG | Monthly | Since '75, 0-37 times per year, monthly since September 2007 |
| | R4 | Rose Creek upstream of Anvil Creek | ✓ | Winter / Summer | SFN/ACG | Bi-monthly | Since '90, 1 - 6 times per year (intermittent), monthly since September 2007 |
| Anvil Creek | R6 | Anvil Creek upstream of Rose Creek | ✓ | Winter / Summer | SFN/ACG | Bi-monthly | Since '90, 1 - 6 times per year (intermittent), monthly since September 2007 |
| | A1 (Anvil Creek) | Anvil Creek upstream of Pelly River | ✓ | | SFN/ACG | Monthly | Since '04 as R11, monthly since September 2007 |
| Pelly River | P1 | Pelly River upstream of Vangorda site | | | SFN/ACG | Bi-monthly | no data (new), monthly since September 2007 |
| | P4 | Pelly River d/s of Anvil Creek | | | SFN/ACG | Bi-monthly | no data (new), monthly since September 2007 |
| | P5 | Pelly River at Pelly Crossing | | | SFN/ACG | Bi-monthly | Begun September 2009, monthly to June 2010 |
| Vangorda Creek | V8 | Vangorda Creeku/s f confluence with Pelly River | | | SFN/ACG | Bi-Monthly | Begun May 2010 |

Sampling began in May 2010.

3.2 Flow Monitoring

Discussions in 2008 with the Type 2 Mines Office have indicated that there is a lack of flow measurements at some of the remote receiving locations. To refine the accuracy of the loading model for environmental assessment purposes additional flow monitoring is proposed to continue to strengthen the hydrological database. This section focused on those water quality monitoring stations where additional flow measurements will be collected and a single station where a new water level logger station will also be established. The flow measurements have been proposed for the following stations when conditions allow:

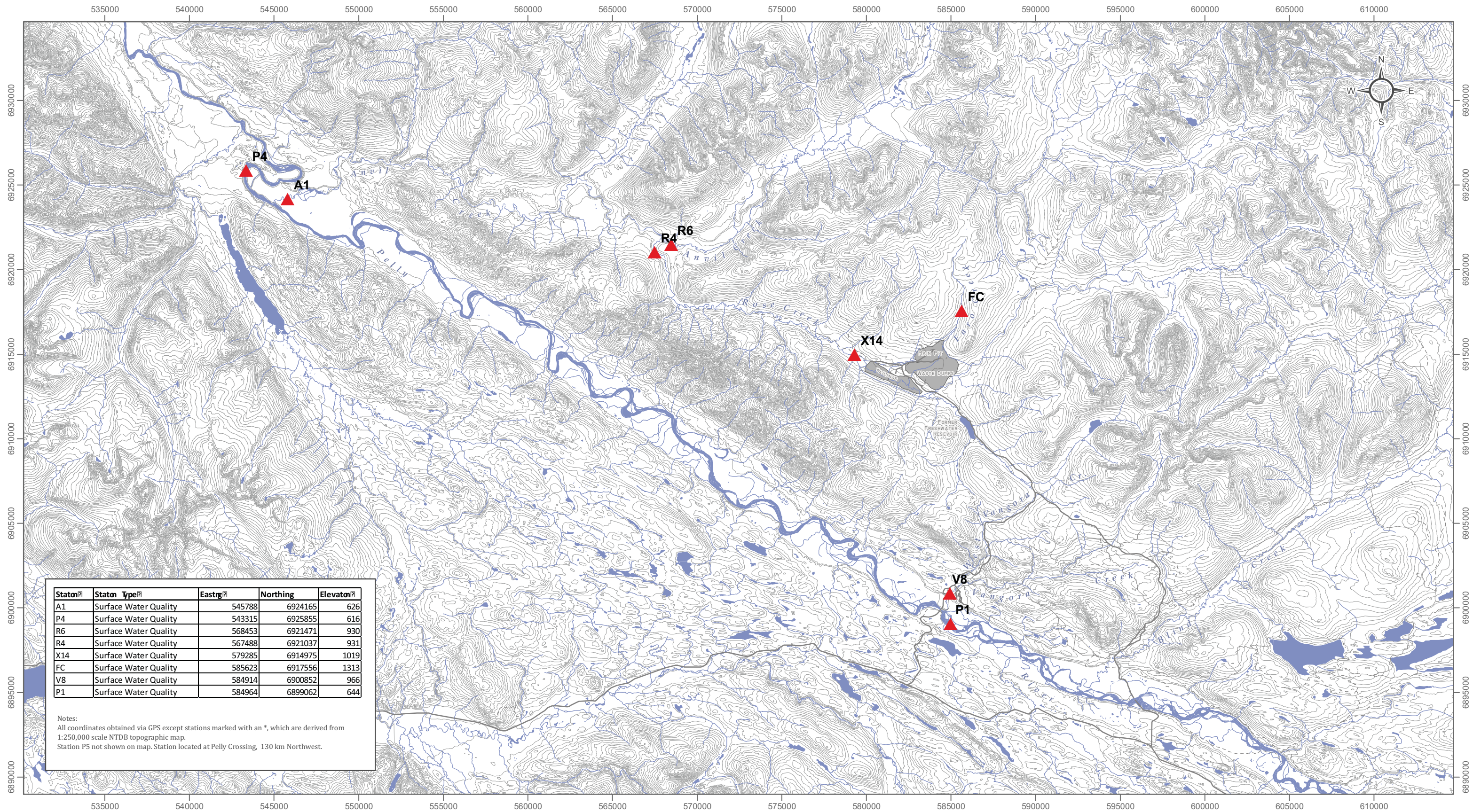
- FC (Faro Creek upstream of the diversion channel), and
- R6 (Anvil Creek upstream of Rose Creek).

A water level logger and staff gauge will be installed at station R6 (Anvil Creek upstream of Rose Creek). To date no flows have been taken at R6 due to dangerously high flow rates.

(Note: In August 2006 samples were collected for database stations R7, R2, V1 and V27. There were 3 samples at each site where metal (for fine fraction), particle size analysis and toxicity were tested.)

4. Reporting

Letter reports of each sampling event will be produced and submitted prior to the next month's sampling event. Data will be compiled and added to the existing database and will be available after the completion of the sampling once the laboratory analysis has been completed and the results have been reviewed and inputted.



1:210,000 when map size is 11 by 17 inches

National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.

Datum: NAD 83 Projection: UTM Zone 8
 NTS Sheet 105M/13 and 105M/14



▲ Surface Water Monitoring Station

— Road

— Limited-use road

- - - Trail

— Contours

— Watercourse

■ Waterbody



PELLY RIVER AQUATIC ECOSYSTEM MONITORING PLAN

MONITORING STATION LOCATIONS

Drawn By: BE

APRIL 2010

Verified by DP

D:\Project\AllProjects\SFN-04-01\GIS\mxd\OverviewMaps\WQ_Stns_May2010

COST BREAKDOWN

Selkirk First Nation/Ross River Dena Council/Access Consulting Group
Aquatic Ecosystem Monitoring Plan (IAEMP)

CONTRACT NAME: Workplan for Interim Aquatic Ecosystem Monitoring Plan
CONTRACTOR: Selkirk First Nation, Pelly Crossing, Yukon. Y0B1P0
TIMELINE: One (1) COVERING THE PERIOD: April 1, 2010 to March 31, 2011

| Task No. | Details | Labour | Days/Units | \$/Day | \$/Unit | Lump Sum | Cost |
|-------------------|---|------------------|------------|------------|----------|----------|---------------------|
| 1.0 | Study Plan and Project Management | | | | | | |
| | Study plan, Meetings, Financial Tracking | ACG Senior | 6 | \$1,120.00 | | | \$6,720.00 |
| Task Total | | | | | | | \$6,720.00 |
| 2.0 | Interim Aquatic Ecosystem Monitoring Plan | | | | | | |
| 2.1 | Monthly Field Work | | | | | | |
| | Field Work (3 days x 6 months) | ACG Intermediate | 18 | \$760.00 | | | \$13,680.00 |
| | | SFN | 18 | \$180.00 | | | \$3,240.00 |
| | | RRDC | 18 | \$180.00 | | | \$3,240.00 |
| | Accommodation (2 nights x 6 months) | ACG Personnel | 12 | \$110.00 | | | \$1,320.00 |
| | | SFN Personnel | 12 | \$110.00 | | | \$1,320.00 |
| | | RRDC Personnel | 12 | \$110.00 | | | \$1,320.00 |
| | Ground Transportation | All Personnel | 6 | \$550.00 | | | \$3,300.00 |
| | Helicopter * | | 6 | \$4,000.00 | | | \$24,000.00 |
| | Food | ACG Personnel | 14 | \$86.20 | | | \$1,206.80 |
| | | SFN Personnel | 14 | \$86.20 | | | \$1,206.80 |
| | | RRDC Personnel | 14 | \$86.20 | | | \$1,206.80 |
| 2.2 | Water Quality Monitoring Program | | | | | | |
| | Lab fees (9 stations + 1 duplicates + 2 blanks (field and trip) x 6 months = 112 samples) Stations: FC, R1, R3, R4, R6, A1, P1, P4, P5, VR, and x14 * | | 72 | | \$350.00 | | \$25,200.00 |
| | Sample shipping * | | 6 | \$175.00 | | | \$1,050.00 |
| | Field Supplies / Equipment Rental | | 14 | \$150.00 | | | \$2,100.00 |
| Task Total | | | | | | | \$83,390.40 |
| 3.0 | Reporting and Assessment | | | | | | |
| | Trip report with Data + mob/demob | ACG Intermediate | 9 | \$760.00 | | | \$6,840.00 |
| | Data management and QA/QC | ACG Intermediate | 8 | \$720.00 | | | \$5,760.00 |
| Task Total | | | | | | | \$12,600.00 |
| Total | | | | | | | \$102,710.40 |

* includes third party disbursement charge of 5%

ACG - Access Consulting Group

SFN - Selkirk First Nation, Environmental Technician

RRDC - Ross River Dena Council, Environmental Technician

Workplan
Aquatic Ecosystem Monitoring Program
Faro and Vangorda Mine Sites

October 2010

1. Background

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In 2000, the SFN Lands and Resource Branch commenced aquatic environmental studies in their traditional territory. The first water quality Investigation was undertaken in 2001 by Laberge Environmental Services (LES). Follow up water quality sampling occurred in 2002, and again in 2003. Specific fisheries investigations in the Pelly River drainages have also been undertaken by SFN. These included the collection of baseline information on Pelly River broad whitefish and their migration within the Tatlain/Mica Creek and Pelly River drainages, in 2001 by Can-nic-a-nick Environmental and fish habitat assessments in Pelly River streams which included whitefish and salmon DNA analysis by White Mountain Environmental Consultants.

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The Aquatic Effects Assessment program continued in 2005 and 2006 collecting additional data utilizing established stations and protocols. As in 2004, technical data was collected on stream water quality, metals levels in sediments, soils, benthos and fisheries in waters downstream of the Faro Mine complex. The data gathered during the 2004, 2005 and 2006 program was utilized as part of the Faro mine closure environmental effects studies (Access Consulting Group. 2007).

In 2006, the Faro Mine Closure Planning Office initiated a comprehensive review of monitoring programs at the Faro and Vangorda mine sites. The objective of this project, conducted by Minnow Environmental, was to design a comprehensive monitoring program for the Faro Mine complex, considering data needs for the development

assessment and regulatory processes in the short-term and for closure plan implementation and evaluation in the long-term.

Minnow also initiated work on the development of site-specific water quality objectives for Rose and Vangorda Creeks. These site-specific objectives will be used to guide closure activities and to evaluate potential effects of closure plan implementation.

Both of these projects are key components of the closure planning process. Initial work on these projects has identified an immediate need to revise and supplement the monitoring programs currently under way (Minnow Environmental. 2007). While the changes may be short-term, they are considered critical to establishing effective long-term monitoring programs and developing defensible site-specific water quality objectives.

In recognition of the need to understand seasonal variability in reference conditions including winter base flow conditions, an initial round of sampling for additional stations with analyses at improved detection limits was completed in March 2007. This program was then continued through 2007 to March 2010 using these same stations with the improved detection limits.

Water Quality (WQ) data collected during the sampling program described above was analysed and used along with WQ data collected by Dennison Environmental to develop a long-term water quality monitoring strategy (Minnow Environmental 2009). This strategy along with discussions resulting from a technical committee workshop (April 2010) combined with meeting the environmental security interests of SFN with respect to water quality in the downstream environment were used to develop this current workplan.

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2. Rationale

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Most significantly, there are insufficient data from reference stations to facilitate a strong understanding of reference conditions (Minnow Environmental. 2007). Improved characterization of reference conditions will require sampling from additional stations, increased sampling frequencies (to characterize seasonal variation) and improved method detection limits. Prior to March 2007 the method detection limits (MDLs) for several contaminants that may be relevant at the site were not sufficient to allow comparison with water quality guidelines.

Prior to March 2007 monitoring improvements were also required for receiving water stations. Improved MDLs for several parameters were required in order to understand whether there are impacts from the mine. As with reference areas, the MDLs needed to be sufficiently low to allow comparison to water quality guidelines. Some receiving water stations also required increased monitoring frequencies to allow characterization of seasonal variation. Without consistent monitoring frequencies for all key reference and receiving water stations, the results of analyses can be biased by the number of samples and the timing for sample collection. This monitoring program has begun and is recommended for continuation until summer 2011 to improve the reference data set and provide a clear picture of existing conditions over time.

Discussions between Indian and Northern Affairs Canada, the Selkirk First Nation, Minnow Environmental and Access Consulting Group resulted in a reduction to a 3 event sampling program and an increase in the number of sample stations in the 2010 to March 2011 Program.

The goal of this workplan is to outline the interim changes to the aquatic ecosystem monitoring program in order to meet the goals of the LTMP. To fully develop the LTMP several additional components and studies will be required to fill information gaps. This data collection will be implemented as part of the Interim Aquatic Ecosystem Monitoring Program (IAEMP) from 2007 – 2010. This workplan details the budget, personnel and strategy to complete this IAEMP.

3. Surface Water Monitoring

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- Elimination of surface water monitoring stations that are not required by licence and do not meet specified criteria.
- An increase to the number of reference stations to develop or update background benchmarks

- An increase to the number of stations to capture site developments and noted concerns since the last revision of the program.
- A decrease in sampling frequencies to 3 times annually to reduce the cost while generating enough data to permit characterization of seasonal variability and allow the optimum frequency and timing of water sample collection for the Long Term Monitoring Plan (LTMP) to be determined. The 3 sample events are in low flow, freshet, and mid-flow periods to capture the varying water levels. See Table 1 'Summary of Sample Stations and Frequency at Faro during IAEMP' to see sample station frequencies and descriptions.
- Evaluate the potential for concentrations of antimony, boron, beryllium, chromium, mercury, molybdenum, selenium, tin, thallium, uranium, or vanadium to exceed Canadian water quality guidelines (CWQG), or alternative toxicity-based benchmarks, in surface waters in the future
- Ensure laboratory method detection limits are sufficiently low to permit meaningful comparison to CWQG
- Field measurements and sampling methods for water quality will be performed as outlined in "Aquatic Ecosystem Monitoring Program, Faro, Yukon" (Minnow Environmental Inc., June 2007, Draft) to maintain operating standards. These standards are found specifically in Appendix A 'Standard Operating Procedures, Field Measurements' and Appendix B 'Standard Operating Procedures, Sampling Methods' of Minnow's report.
- Dennison Environmental Services will continue their water quality monitoring program as per the Water Use Licence. This has resulted in redundant sampling and these redundant sites have been removed from the IAEMP to reduce overlap.

Table 1 outlines the station locations that will be sampled Selkirk First Nation with Access Consulting Group in the IAEMP. The 2007 plan called for 8 additional sites were added to be added the monitoring schedule, 21 stations retained for continuation, 28 stations eliminated and 19 stations (above) had their monitoring frequency changed to monthly. The 2010 revision calls for 9 sites for surface water monitoring during the IAEMP by Selkirk First Nation with Access Consulting Group. Results from all samples will be examined for LTMP. Sampling will follow protocol for water quality collection and flows.

Table 1: Monitoring Locations and Frequencies - FN Water Quality Program 2010/11

| Station Name | Location Description | Water Quality Frequency | Parameter Suite | Flow/Level ¹ Frequency | Purpose | Number of Samples | Notes |
|---------------------------------------|---|-------------------------|-----------------|-----------------------------------|---------|-------------------|---|
| Vangorda/Grum | | | | | | | |
| V8 | Lower Vangorda Creek at the footbridge | 3X | S LDL | CONT | Rec | 3 | Dual sampling - FN and DES |
| V17A | Creek from Grum ore transfer pad | 3X | S LDL | 3X | Rec | 3 | Reduced Frequency, 2010 |
| V20A | Dixon Creek u/s of all mine influence | 3X | S LDL | 3X | Ref | 3 | New 2010, replace V20. Site to be in Dixon Cr, not tributary. |
| VR | West Fork of Vangorda Creek u/s of Haul Road | 3X | S LDL | 3X | Ref | 3 | |
| VG Main | Main Fork Vangorda Creek u/s of West Fork | 3X | S LDL | | Rec | 3 | Reinstated 2010 |
| VW1 | West Fork Vangorda Creek d/s of landslide and u/s of Grum WR drainage | 3X | S LDL | | Rec | 3 | New 2009, SFN |
| VW2 | Tributary Draining Grum West Lobe | 3X | S LDL | 3X | Rec | 3 | New 2009, SFN |
| VW3 | West Fork Vangorda Creek d/s of AEX Creek | 3X | S LDL | 3X | Rec | 3 | New 2010 |
| Faro/Rose/Anvil | | | | | | | |
| FC | Faro Creek above diversion channel | 3X | S LDL | CONT | Ref | 3 | Reduced Frequency, 2010 |
| R1 | South Fork Rose Creek u/s of Pumphouse Pond | 3X | S LDL | | Ref? | 3 | Reduced Frequency, 2010 |
| R4 | Rose Creek u/s of Anvil Cr. | 3X | S LDL | 3X | Rec | 3 | Reduced Frequency, 2010 |
| R5 | Rose Creek d/s of Anvil Cr. | 3X | S LDL | 3X | Rec | 3 | Reduced Frequency, 2010 |
| R6 | Anvil Creek u/s of Rose Cr. | 3X | S LDL | 3X | Rec | 3 | Reduced Frequency, 2010 |
| W10 | Upper Guardhouse Ck u/s of NW Dump | 3X | S LDL | 3X | Ref | 3 | Reduced Frequency, 2010 |
| X14 | Rose Creek downstream of the diversion channel | 3X | S LDL | CONT | Rec | 3 | Dual sampling - FN and DES |
| NWID | NW Interceptor u/s of diversion point | 3X | S LDL | 3X | Rec | 3 | Reduced Frequency 2010, Replacing W8. |
| USFR | South Fork Rose Creek u/s of Haul Road | 3X | S LDL | 3X | Ref | 3 | New for 2010 |
| GCULV | South Fork Rose Creek u/s of Mine Access Road | 3X | S LDL | | Other | 3 | Inadvertently removed in 2009. |
| K8 | Reservoir Creek u/s of Mine Access Road | 3X | S LDL | | Other | 3 | Inadvertently removed in 2009. |
| A1 | Anvil Creek u/s of Pelly River | 3X | S LDL | 3X | Rec | 3 | Reduced Frequency, 2010 |
| Pelly River | | | | | | | |
| P1 | Pelly River u/s of Vangorda Creek | 3X | S LDL | 3X | Ref | 3 | Reduced Frequency, 2010 |
| P4 | Pelly River d/s of Anvil Creek | 3X | S LDL | 3X | Rec | 3 | Reduced Frequency, 2010 |
| P5 | Pelly River u/s of Pelly Crossing | 3X | S LDL | 3X | Rec | 3 | Reduced Frequency, 2010 |
| Total Surface Samples per Year | | | | | | 69 | |

Legend

Frequency - 3X=Three times/year including 2nd 1/2 of March (low flow), 2nd 1/2 of May (freshet), and October (mid-range flow).

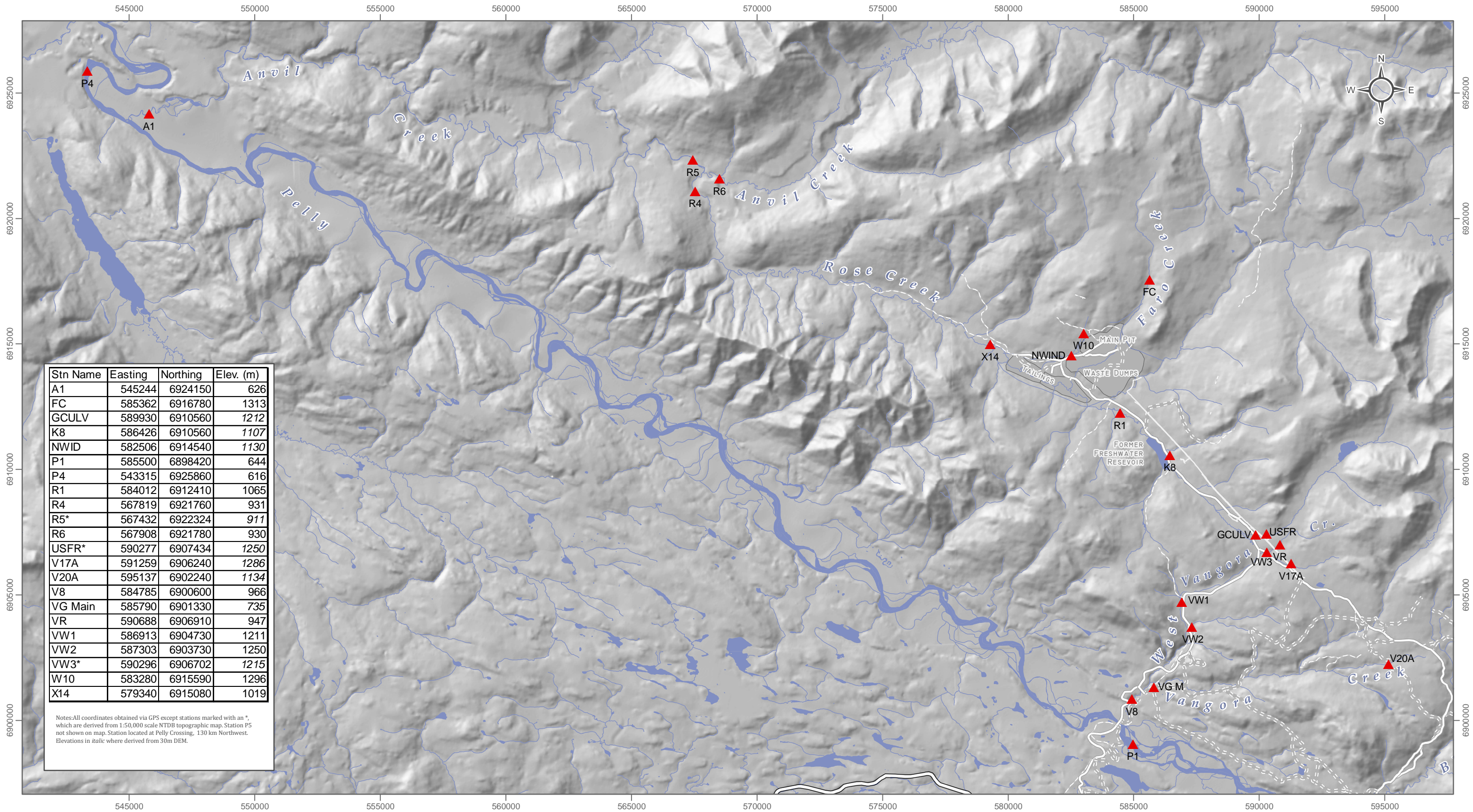
Parameter Suite - S LDL=Surface Water Low Detection Limit

Purpose - Rec=Receiving Water, Ref=Reference, Int=Internal,
Per=Perimeter

Notes

¹ Zero flow or flows that cannot be sampled (i.e. trace, subsurface, glaciation) are to be recorded and reported for all required sampling events.

Adapted from Bill Slater July 26, 2010 (Memo)



1:141,659 when map size is 11 by 17 inches

National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from Her Majesty the Queen in Right of Canada. Department of Natural Resources Canada. All rights reserved.
Datum : NAD 83 Projection: UTM Zone 8 NTS Sheet 105M/13 and 105M/14

▲ Surface Water Monitoring Station

- == Highway
- == Main Road
- == Secondary Road
- Limited-used road
- - - Trail

- Watercourse
- Waterbody



PELLY RIVER AQUATIC ECOSYSTEM MONITORING PLAN

MONITORING STATION LOCATIONS

Drawn By: MD NOVEMBER 2010 Verified by PI

Map Document: (I:\SFN-04-01\GIS\mxd\Field\WQ_Stns_Nov_2010.mxd)
01/11/2010 -- 2:51:10 PM



3.2 Flow Monitoring

Discussions have indicated that there is a lack of flow measurements at some of the receiving locations. To refine the accuracy of the loading model for environmental assessment purposes additional flow monitoring is proposed to continue to strengthen the hydrological database. Flows or water levels measurements will taken whenever possible at all stations indicated in Table 1.

A water level logger and staff gauge will be installed at station R6 (Anvil Creek upstream of Rose Creek). To date no flows have been taken at R6 due to dangerously high flow rates.

4. Reporting

Letter reports of each sampling event will be produced and submitted prior to the next sampling event. Data will be compiled and added to the existing database and will be available after the completion of the sampling once the laboratory analysis has been completed and the results have been reviewed and inputted. A data sharing protocol will be established to allow for on-site decision making if needed.

COST BREAKDOWN

Selkirk First Nation/Ross River Dena Council/Access Consulting Group
Aquatic Ecosystem Monitoring Plan (IAEMP)

CONTRACT NAME: Workplan for Interim Aquatic Ecosystem Monitoring Plan
CONTRACTOR: Selkirk First Nation, Pelly Crossing, Yukon. Y0B1P0
TIMELINE: One (1) COVERING THE PERIOD: April 1, 2010 to March 31, 2011

| Task No. | Details | Labour | Days/Units | \$/Day | \$/Unit | Lump Sum | Cost |
|-------------------|---|------------------|------------|------------|----------|----------|--------------------|
| 1.0 | Study Plan and Project Management | | | | | | |
| | Study plan, Meetings, Financial Tracking | ACG Senior | 8 | \$1,120.00 | | | \$8,960.00 |
| Task Total | | | | | | | \$8,960.00 |
| 2.0 | Interim Aquatic Ecosystem Monitoring Plan | | | | | | |
| 2.1 | Monthly Field Work | | | | | | |
| | Field Work (4 days x 3 events) | ACG Intermediate | 12 | \$760.00 | | | \$9,120.00 |
| | | SFN | 12 | \$180.00 | | | \$2,160.00 |
| | | RRDC | 12 | \$180.00 | | | \$2,160.00 |
| | Accommodation (2 nights x 3 events) | ACG Personnel | 6 | \$110.00 | | | \$660.00 |
| | | SFN Personnel | 6 | \$110.00 | | | \$660.00 |
| | | RRDC Personnel | 6 | \$110.00 | | | \$660.00 |
| | Ground Transportation | All Personnel | 3 | \$550.00 | | | \$1,650.00 |
| | Helicopter * | | 3 | \$4,000.00 | | | \$12,000.00 |
| | Food | ACG Personnel | 9 | \$86.20 | | | \$775.80 |
| | | SFN Personnel | 9 | \$86.20 | | | \$775.80 |
| | | RRDC Personnel | 9 | \$86.20 | | | \$775.80 |
| 2.2 | Water Quality Monitoring Program | | | | | | |
| | Lab fees (23 stations + 1 duplicates + 2 blanks (field and trip) x 3 events = 78 samples) | | 78 | | \$350.00 | | \$27,300.00 |
| | Sample shipping * | | 3 | \$175.00 | | | \$525.00 |
| | Field Supplies / Equipment Rental | | 9 | \$150.00 | | | \$1,350.00 |
| Task Total | | | | | | | \$60,572.40 |
| 3.0 | Reporting and Assessment | | | | | | |
| | Trip report with Data + mob/demob | ACG Intermediate | 5 | \$760.00 | | | \$3,420.00 |
| | Data management and QA/QC | ACG Intermediate | 8 | \$720.00 | | | \$5,760.00 |
| Task Total | | | | | | | \$9,180.00 |
| Total | | | | | | | \$78,712.40 |

* includes third party disbursement charge of 5%

ACG - Access Consulting Group

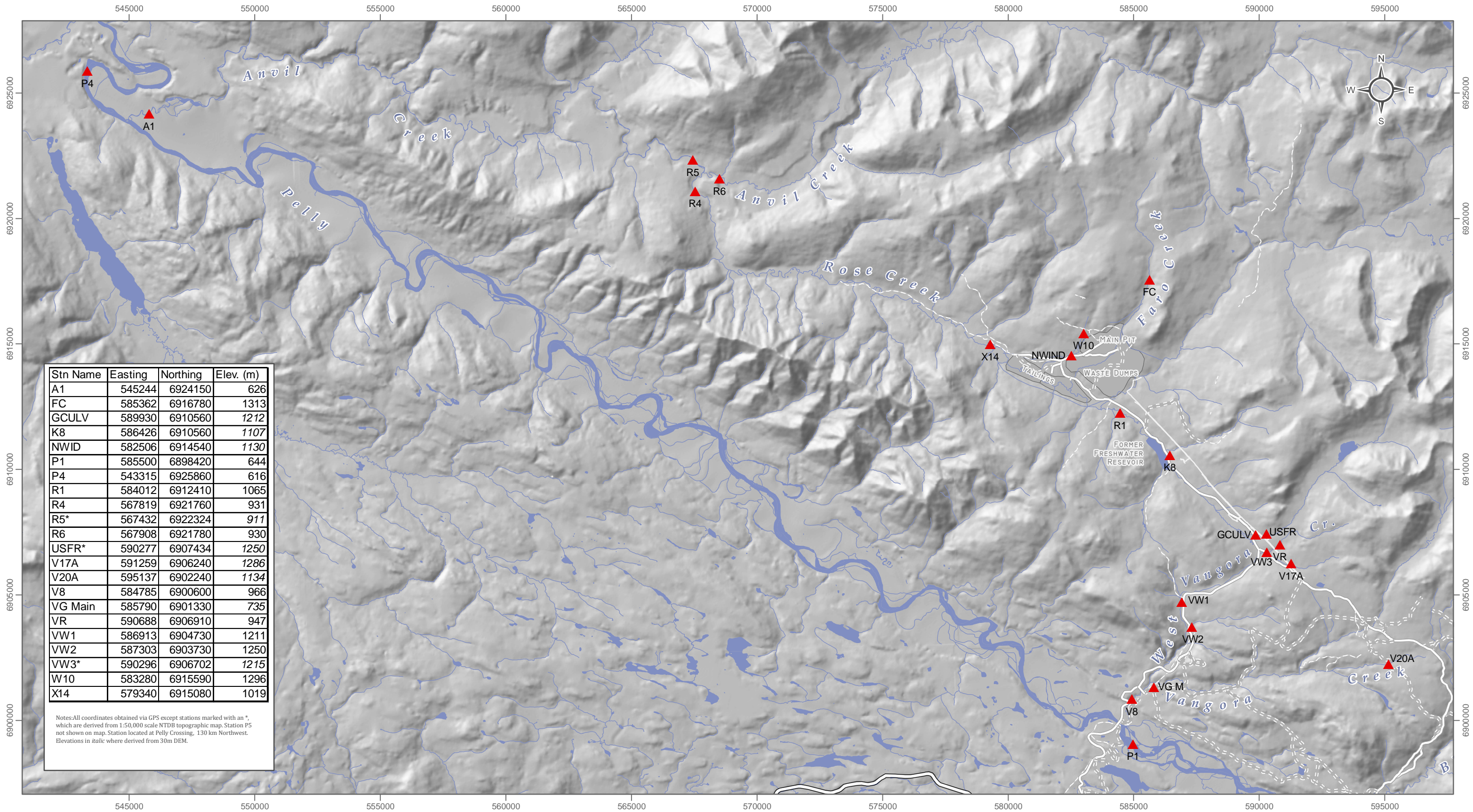
SFN - Selkirk First Nation, Environmental Technician

RRDC - Ross River Dena Council, Environmental Technician

**Pelly River Aquatic Ecosystem
Monitoring Program
2010 Summary
Sampling Stations**

Stations sampled in 2010

| Database Station ID | Station Description | Jan | Feb | March | May | Aug | November | AEM Sites |
|---------------------|---|-----|-----|-------|-----|-----|----------|-----------|
| V8 | Lower Vangorda Creek at the footbridge | | | | X | X | X | X |
| V17A | Creek from Grum ore transfer pad | | | | | | X | X |
| V20A | Dixon Creek u/s of all mine influence | | | | | | X | X |
| VR | West Fork of Vangorda Creek u/s of Haul Road | X | X | X | | | X | X |
| V6A | AEX Creek | X | X | X | | | | |
| VG Main | Main Fork Vangorda Creek u/s of West Fork | | | | | | | X |
| VW1 | West Fork Vangorda Creek d/s of landslide and u/s of Grum WR drainage | | X | X | | | | X |
| VW2 | Tributary Draining Grum West Lobe | | X | X | | | | X |
| VW3 | West Fork Vangorda Creek d/s of AEX Creek | | | | | | | X |
| FC | Faro Creek above diversion channel | X | X | X | X | X | X | X |
| R1 | South Fork Rose Creek u/s of Pumphouse Pond | X | X | X | | | X | X |
| R3 | Rose Creek between R2 and R4 | X | X | X | | | | |
| R4 | Rose Creek u/s of Anvil Cr. | X | X | | X | X | X | X |
| R5 | Rose Creek d/s of Anvil Cr. | | | | | | X | X |
| R6 | Anvil Creek u/s of Rose Cr. | X | X | X | X | X | X | X |
| W10 | Upper Guardhouse Ck u/s of NW Dump | | | | | | | X |
| X14 | Rose Creek downstream of the diversion channel | | | | X | X | | X |
| NWID | NW Interceptor u/s of diversion point | | | | | | X | X |
| USFR | South Fork Rose Creek u/s of Haul Road | | | | | | X | X |
| GCULV | South Fork Rose Creek u/s of Mine Access Road | | | | | | X | X |
| K8 | Reservoir Creek u/s of Mine Access Road | | | | | | X | X |
| A1 | Anvil Creek u/s of Pelly River | X | X | X | X | X | X | X |
| P1 | Pelly River u/s of Vangorda Creek | X | X | X | X | X | X | X |
| P4 | Pelly River d/s of Anvil Creek | X | X | X | X | X | X | X |
| P5 | Pelly River u/s of Pelly Crossing | | X | | X | | X | X |



| Stn Name | Easting | Northing | Elev. (m) |
|----------|---------|----------|-----------|
| A1 | 545244 | 6924150 | 626 |
| FC | 585362 | 6916780 | 1313 |
| GCULV | 589930 | 6910560 | 1212 |
| K8 | 586426 | 6910560 | 1107 |
| NWID | 582506 | 6914540 | 1130 |
| P1 | 585500 | 6898420 | 644 |
| P4 | 543315 | 6925860 | 616 |
| R1 | 584012 | 6912410 | 1065 |
| R4 | 567819 | 6921760 | 931 |
| R5* | 567432 | 6922324 | 911 |
| R6 | 567908 | 6921780 | 930 |
| USFR* | 590277 | 6907434 | 1250 |
| V17A | 591259 | 6906240 | 1286 |
| V20A | 595137 | 6902240 | 1134 |
| V8 | 584785 | 6900600 | 966 |
| VG Main | 585790 | 6901330 | 735 |
| VR | 590688 | 6906910 | 947 |
| VW1 | 586913 | 6904730 | 1211 |
| VW2 | 587303 | 6903730 | 1250 |
| VW3* | 590296 | 6906702 | 1215 |
| W10 | 583280 | 6915590 | 1296 |
| X14 | 579340 | 6915080 | 1019 |

Notes: All coordinates obtained via GPS except stations marked with an *, which are derived from 1:50,000 scale NTDB topographic map. Station P5 not shown on map. Station located at Pelly Crossing, 130 km Northwest. Elevations in *italic* where derived from 30m DEM.

1:141,659 when map size is 11 by 17 inches

National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced under license from Her Majesty the Queen in Right of Canada. Department of Natural Resources Canada. All rights reserved.
Datum: NAD 83 Projection: UTM Zone 8 NTS Sheet 105M/13 and 105M/14

▲ Surface Water Monitoring Station

- == Highway
- == Main Road
- == Secondary Road
- Limited-used road
- - - Trail
- Watercourse
- Waterbody



PELLY RIVER AQUATIC ECOSYSTEM MONITORING PLAN

MONITORING STATION LOCATIONS

Drawn By: MD NOVEMBER 2010 Verified by PI

Map Document: (I:\SFN-04-01\GIS\mxd\Field\WQ_Stns_Nov_2010.mxd)
01/11/2010 -- 2:51:10 PM



**Pelly River Aquatic Ecosystem
Monitoring Program
2010 Summary**

**Monthly Trip Reports and
Laboratory Results**



A MEMBER OF ALEXCO RESOURCE GROUP

3 Calcite Business Centre, 151 Industrial Road, Whitehorse, Yukon Y1A 2V3

PHONE (867) 668-6463 FAX (867) 667-6680

WWW.ACCESSCONSULTING.CA

MEMORANDUM

TO: File

CC: David Petkovich
Scott Keeseey

FROM: Paul Inglis

RE: **January 2010 water sampling at Faro (Pelly River Interim Aquatic Ecosystem Monitoring Plan)**

PROJECT #: SFN-09-02

DATE: March 3, 2010

The following is a brief trip report for the monthly water sampling event in the area of the Anvil Range Mine for the month of January 2010.

In the late morning of January 20th, 2009 Paul Inglis (ACG) travelled from Whitehorse to Pelly Crossing where he picked up Randy Profeit (SFN). These two constituted the field crew for the sampling event. They then drove to Faro arriving at 18:00.

On January 21st the field crew drove the Mine Access Road to the mine site, sampling stations VW2 (dry, not sampled), VW1, and R1 arriving at the minesite at 10:45. After checking in with the mine admin the field crew sampled sites VR and FC (within the compound). The crew then met Trans North Helicopters pilot Brian Parsons at 12:30 at the Faro Airport. Weather while sampling in the afternoon was cloudy with occasional snow and the temperature was around -6 to -10°C. The following sites were sampled by helicopter: P1, P4, A1, R6, R4, R3, and V6A. In-situ measurements were taken with an YSI multi-meter. Based on unusually low pH measurements from the YSI meter it was suspected that the pH probe was not functioning, later inspections and testing confirmed this. Eight sample bottles were collected at each station with the following parameters being screened for:

- General (including Alkalinity, conductivity and pH)
- TSS and TDS
- Total metals
- Dissolved metals (Field Filtered)
- Dissolved Organic Carbon (Field Filtered)
- Cyanide
- Anions
- Total Organic Carbon and Phosphorus

Additionally 1 field blank and 1 duplicate sample were prepared and tested. The duplicate was sampled at station A1. All 13 sets of water samples were shipped via Air North Cargo on January 22nd to Maxxam Analytics in Burnaby, B.C. for analysis.

| Station | Northing | Easting |
|---------|----------|---------|
| R1 | 62.3337 | 133.378 |
| R3 | 62.38103 | 133.579 |
| R4 | 62.4209 | 133.687 |
| R6 | 62.42107 | 133.685 |
| A1 | 62.44574 | 134.123 |
| P4 | 62.46132 | 134.16 |
| P1 | 62.20786 | 133.356 |
| FC | 62.37258 | 133.35 |
| VR | 62.28282 | 133.252 |
| V6A | 62.28019 | 133.258 |
| VW1 | 62.26413 | 133.326 |

Notable issues:

- Flow measurements were not taken at R4 or FC due to difficulty in accessing flowing water through the thick ice.



Plate 1: In-situ measurements at station R1



Plate 2: Water sampling at station A1

If you have any questions about this report, please contact Paul Inglis of Access Consulting Group.

Your P.O. #: SFN-09-02
Your Project #: SFN-07-01
Your C.O.C. #: 08308266, 08308277

Attention: David Petkovich
ACCESS CONSULTING GROUP
#3 Calcite
151 Industrial Road
WHITEHORSE, YT
CANADA Y1A 3C8

Report Date: 2010/02/01

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B003745
Received: 2010/01/25, 10:00

Sample Matrix: Water
Samples Received: 13

| Analyses | Quantity | Date | | Laboratory Method | Analytical Method |
|---|----------|------------|------------|--------------------|----------------------|
| | | Extracted | Analyzed | | |
| Alkalinity - Water | 13 | 2010/01/26 | 2010/01/26 | BRN SOP-00264 R4.0 | Based on SM2320B |
| Chloride by Automated Colourimetry | 13 | N/A | 2010/01/26 | BRN-SOP 00234 R3.0 | Based on EPA 325.2 |
| Cyanide WAD (weak acid dissociable) | 13 | N/A | 2010/01/26 | BRN SOP-00227 R3.0 | Based on SM-4500CN I |
| Carbon (DOC) | 13 | N/A | 2010/01/28 | BRN SOP-00224 R4.0 | Based on M 860-87T |
| Conductance - water | 13 | N/A | 2010/01/26 | BRN SOP-00264 R2.0 | Based on SM-2510B |
| Fluoride - Mining Clients | 13 | N/A | 2010/01/25 | BRN SOP-00225 R1.0 | Based SM - 4500 F C |
| Hardness Total (calculated as CaCO3) | 13 | N/A | 2010/01/28 | | |
| Hardness (calculated as CaCO3) | 13 | N/A | 2010/01/28 | | |
| Ion Balance | 13 | N/A | 2010/01/28 | | |
| Na, K, Ca, Mg, S by CRC ICPMS (diss.) | 13 | N/A | 2010/01/27 | BRN SOP-00206 R7.0 | Based on EPA 200.8 |
| Elements by ICPMS Low Level (dissolved) (1) | 13 | N/A | 2010/01/27 | BRN SOP-00206 R7.0 | Based on EPA 200.8 |
| Elements by ICPMS Low Level (total) (1) | 13 | 2010/01/25 | 2010/01/26 | BRN SOP-00206 R7.0 | Based on EPA 200.8 |
| Na, K, Ca, Mg, S by CRC ICPMS (total) | 13 | 2010/01/25 | 2010/01/26 | BRN SOP-00206 R7.0 | Based on EPA 200.8 |
| Ammonia (N) | 13 | N/A | 2010/01/25 | BRN SOP-00232 R4.0 | Based on USEPA 350.1 |
| Nitrate + Nitrite (N) | 13 | N/A | 2010/01/25 | ING233 Rev.4.4 | Based on EPA 353.2 |
| Nitrite (N) by CFA | 13 | N/A | 2010/01/25 | BRN SOP-00233 R1.0 | EPA 353.2 |
| Nitrogen - Nitrate (as N) | 13 | N/A | 2010/01/26 | | |
| Filter and HNO3 Preserve for Metals | 13 | N/A | 2010/01/25 | BRN WI-00006 R1.0 | Based on EPA 200.2 |
| pH Water | 13 | N/A | 2010/01/26 | BRN SOP-00264 R4.0 | Based on SM-4500H+B |
| Sulphate by Automated Colourimetry | 13 | N/A | 2010/01/26 | BRN-SOP 00243 R1.0 | Based on EPA 375.4 |
| Total Dissolved Solids (Filt. Residue) | 13 | N/A | 2010/01/26 | BRN SOP 00276 R4.0 | SM 2540C |
| Carbon (Total Organic) | 13 | N/A | 2010/01/28 | BRN SOP-00224 R4.0 | Based on SM-5310C |
| Total Phosphorus | 13 | N/A | 2010/01/25 | BRN SOP-00236 R4.0 | SM 4500 |
| Total Suspended Solids | 13 | N/A | 2010/01/25 | BRN SOP-00277 R5.0 | Based on SM-2540 D |

* Results relate only to the items tested.

(1) SCC/CAEAL

Maxxam Job #: B003745
Report Date: 2010/02/01

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: PI

-2-

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

KIMBERLEY WEBBER, BBY Customer Service
Email: kim.webber@maxxamanalytics.com
Phone# (604) 444-4808 Ext:259

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CALA have approved this reporting process and electronic report format.

Total cover pages: 2

Maxxam Job #: B003745
 Report Date: 2010/02/01

 ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

 Your P.O. #: SFN-09-02
 Sampler Initials: PI

RESULTS OF CHEMICAL ANALYSES OF WATER

| Maxxam ID | | S52973 | S52974 | S52975 | S52976 | S52977 | S52978 | S52979 | | |
|--------------------------------|----------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------|----------|
| Sampling Date | | 2010/01/21 09:05 | 2010/01/21 10:05 | 2010/01/21 11:05 | 2010/01/21 11:35 | 2010/01/21 12:40 | 2010/01/21 13:10 | 2010/01/21 13:25 | | |
| | Units | VW1 | R1 | VR | FC | P1 | P4 | A1 | RDL | QC Batch |
| Misc. Inorganics | | | | | | | | | | |
| Fluoride (F) | mg/L | 0.21 | 0.15 | 0.07 | 0.11 | 0.12 | 0.12 | 0.11 | 0.01 | 3698395 |
| Preparation | | | | | | | | | | |
| Filter and HNO3 Preservation | N/A | FIELD | FIELD | FIELD | FIELD | FIELD | FIELD | FIELD | N/A | ONSITE |
| ANIONS | | | | | | | | | | |
| Nitrite (N) | mg/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 3700734 |
| Calculated Parameters | | | | | | | | | | |
| Ion Balance | N/A | 0.99 | 0.95 | NC | NC | 1.0 | 0.97 | 0.97 | 0.01 | 3699219 |
| Nitrate (N) | mg/L | 0.16 | 0.14 | 0.07 | 0.06 | 0.09 | 0.07 | 0.24 | 0.02 | 3698673 |
| Misc. Inorganics | | | | | | | | | | |
| Weak Acid Dissoc. Cyanide (CN) | mg/L | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.0005 | 3704971 |
| Dissolved Organic Carbon (C) | mg/L | 2.1 | 1.7 | 2.7 | 1.4 | 1.3 | 2.6 | 1.2 | 0.5 | 3709221 |
| Alkalinity (Total as CaCO3) | mg/L | 190 | 120 | 39 | 21 | 150 | 150 | 140 | 0.5 | 3700993 |
| Total Organic Carbon (C) | mg/L | 2.6 | 2.0 | 2.8 | 2.1 | 1.1 | 3.1 | 1.1 | 0.5 | 3709213 |
| Alkalinity (PP as CaCO3) | mg/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 3700993 |
| Bicarbonate (HCO3) | mg/L | 230 | 150 | 48 | 26 | 180 | 180 | 170 | 0.5 | 3700993 |
| Carbonate (CO3) | mg/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 3700993 |
| Hydroxide (OH) | mg/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 3700993 |
| Anions | | | | | | | | | | |
| Dissolved Sulphate (SO4) | mg/L | 59 | 29 | 6.2 | 2.0 | 67 | 63 | 44 | 0.5 | 3705714 |
| Dissolved Chloride (Cl) | mg/L | 2.3 | 0.8 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 3705716 |
| Nutrients | | | | | | | | | | |
| Ammonia (N) | mg/L | 0.009 | 0.047 | 0.022 | <0.005 | 0.007 | 0.012 | 0.009 | 0.005 | 3700723 |
| Nitrate plus Nitrite (N) | mg/L | 0.16 | 0.14 | 0.07 | 0.06 | 0.09 | 0.07 | 0.24 | 0.02 | 3700733 |
| Total Phosphorus (P) | mg/L | <0.005 | 0.015 | 0.016 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 3697978 |
| Physical Properties | | | | | | | | | | |
| Conductivity | uS/cm | 460 | 294 | 92 | 45 | 425 | 396 | 357 | 1 | 3700992 |
| pH | pH Units | 8.1 | 7.9 | 7.6 | 7.4 | 8.0 | 8.0 | 8.1 | | 3700987 |
| Physical Properties | | | | | | | | | | |
| Total Suspended Solids | mg/L | 8 | 4 | 14 | <1 | <1 | 2 | 1 | 1 | 3699395 |
| Total Dissolved Solids | mg/L | 280 | 170 | 52 | 42 | 320 | 340 | 230 | 10 | 3699932 |

N/A = Not Applicable

NC = Non-calculable

RDL = Reportable Detection Limit

Maxxam Job #: B003745
 Report Date: 2010/02/01

 ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

 Your P.O. #: SFN-09-02
 Sampler Initials: PI

RESULTS OF CHEMICAL ANALYSES OF WATER

| Maxxam ID | | S52980 | S52981 | S52982 | S52983 | S52984 | S52992 | | |
|--------------------------------|----------|---------------------|---------------------|---------------------|---------------------|------------|-------------|--------|----------|
| Sampling Date | | 2010/01/21 13:50 | 2010/01/21 14:18 | 2010/01/21 14:40 | 2010/01/21 14:55 | 2010/01/21 | 2010/01/21 | | |
| | Units | R6 | R4 | R3 | V6A | DUPLICATE | FIELD BLANK | RDL | QC Batch |
| Misc. Inorganics | | | | | | | | | |
| Fluoride (F) | mg/L | 0.09 | 0.12 | 0.13 | 0.09 | 0.11 | <0.01 | 0.01 | 3698395 |
| Preparation | | | | | | | | | |
| Filter and HNO3 Preservation | N/A | FIELD | FIELD | FIELD | FIELD | FIELD | FIELD | N/A | ONSITE |
| ANIONS | | | | | | | | | |
| Nitrite (N) | mg/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 3700734 |
| Calculated Parameters | | | | | | | | | |
| Ion Balance | N/A | 0.94 | 0.95 | 0.94 | 1.0 | 0.96 | NC | 0.01 | 3699219 |
| Nitrate (N) | mg/L | 0.22 | 0.24 | 0.23 | 0.38 | 0.24 | <0.02 | 0.02 | 3698673 |
| Misc. Inorganics | | | | | | | | | |
| Weak Acid Dissoc. Cyanide (CN) | mg/L | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.0005 | 3704971 |
| Dissolved Organic Carbon (C) | mg/L | 0.9 | 1.4 | 1.5 | 1.4 | 1.5 | <0.5 | 0.5 | 3709221 |
| Alkalinity (Total as CaCO3) | mg/L | 150 | 150 | 150 | 110 | 150 | 1.1 | 0.5 | 3700993 |
| Total Organic Carbon (C) | mg/L | 0.8 | 1.3 | 1.4 | 1.8 | 1.4 | <0.5 | 0.5 | 3709213 |
| Alkalinity (PP as CaCO3) | mg/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 3700993 |
| Bicarbonate (HCO3) | mg/L | 180 | 180 | 180 | 130 | 180 | 1.3 | 0.5 | 3700993 |
| Carbonate (CO3) | mg/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 3700993 |
| Hydroxide (OH) | mg/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 3700993 |
| Anions | | | | | | | | | |
| Dissolved Sulphate (SO4) | mg/L | 22 | 98 | 110 | 56 | 100 | <0.5 | 0.5 | 3705714 |
| Dissolved Chloride (Cl) | mg/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 3705716 |
| Nutrients | | | | | | | | | |
| Ammonia (N) | mg/L | 0.007 | 0.012 | 0.028 | <0.005 | 0.010 | 0.008 | 0.005 | 3700723 |
| Nitrate plus Nitrite (N) | mg/L | 0.22 | 0.24 | 0.23 | 0.38 | 0.24 | <0.02 | 0.02 | 3700733 |
| Total Phosphorus (P) | mg/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 3697978 |
| Physical Properties | | | | | | | | | |
| Conductivity | uS/cm | 320 | 465 | 496 | 328 | 468 | 3 | 1 | 3700992 |
| pH | pH Units | 8.1 | 7.9 | 8.0 | 8.0 | 7.9 | 6.0 | | 3700987 |
| Physical Properties | | | | | | | | | |
| Total Suspended Solids | mg/L | 1 | <1 | <1 | 2 | <1 | <1 | 1 | 3699395 |
| Total Dissolved Solids | mg/L | 200 | 330 | 320 | 270 | 330 | <10 | 10 | 3699932 |

N/A = Not Applicable

NC = Non-calculable

RDL = Reportable Detection Limit

Maxxam Job #: B003745
Report Date: 2010/02/01

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: PI

LOW LEVEL DISSOLVED METALS - WATER (WATER)

| Maxxam ID | | S52973 | S52974 | S52975 | S52976 | S52977 | S52978 | S52979 | | |
|----------------------------|--------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------|-----------------|
| Sampling Date | | 2010/01/21 09:05 | 2010/01/21 10:05 | 2010/01/21 11:05 | 2010/01/21 11:35 | 2010/01/21 12:40 | 2010/01/21 13:10 | 2010/01/21 13:25 | | |
| | Units | VW1 | R1 | VR | FC | P1 | P4 | A1 | RDL | QC Batch |
| Misc. Inorganics | | | | | | | | | | |
| Dissolved Hardness (CaCO3) | mg/L | 245 | 140 | 37.8 | 16.3 | 217 | 201 | 174 | 0.5 | 3698049 |

RDL = Reportable Detection Limit

Maxxam Job #: B003745
 Report Date: 2010/02/01

 ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

 Your P.O. #: SFN-09-02
 Sampler Initials: PI

LOW LEVEL DISSOLVED METALS - WATER (WATER)

| Maxxam ID | | S52973 | S52974 | S52975 | S52976 | S52977 | S52978 | S52979 | | |
|----------------------------------|-------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|-------|----------|
| Sampling Date | | 2010/01/21 09:05 | 2010/01/21 10:05 | 2010/01/21 11:05 | 2010/01/21 11:35 | 2010/01/21 12:40 | 2010/01/21 13:10 | 2010/01/21 13:25 | | |
| | Units | VW1 | R1 | VR | FC | P1 | P4 | A1 | RDL | QC Batch |
| Dissolved Metals by ICPMS | | | | | | | | | | |
| Dissolved Aluminum (Al) | ug/L | 3.7 | 5.1 | 16.2 | 20.6 | 3.0 | 2.6 | 5.6 | 0.2 | 3706114 |
| Dissolved Antimony (Sb) | ug/L | 0.06 | 0.07 | 0.08 | 0.02 | 0.17 | 0.18 | 1.39 | 0.02 | 3706114 |
| Dissolved Arsenic (As) | ug/L | 0.44 | 0.31 | 0.18 | 0.07 | 0.26 | 0.26 | 0.61 | 0.02 | 3706114 |
| Dissolved Barium (Ba) | ug/L | 76.6 | 65.7 | 34.3 | 17.2 | 83.8 | 65.5 | 77.4 | 0.02 | 3706114 |
| Dissolved Beryllium (Be) | ug/L | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 3706114 |
| Dissolved Bismuth (Bi) | ug/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 3706114 |
| Dissolved Boron (B) | ug/L | <50 | <50 | <50 | <50 | <50 | <50 | <50 | 50 | 3706114 |
| Dissolved Cadmium (Cd) | ug/L | 0.007 | 0.022 | 0.028 | 0.007 | 0.156 | 0.034 | <0.005 | 0.005 | 3706114 |
| Dissolved Chromium (Cr) | ug/L | <0.1 | 0.2 | 0.6 | <0.1 | <0.1 | <0.1 | 0.2 | 0.1 | 3706114 |
| Dissolved Cobalt (Co) | ug/L | 0.080 | 0.080 | 0.025 | 0.014 | 0.017 | 0.031 | 0.029 | 0.005 | 3706114 |
| Dissolved Copper (Cu) | ug/L | 0.45 | 1.04 | 1.22 | 0.32 | 0.48 | 0.23 | 0.55 | 0.05 | 3706114 |
| Dissolved Iron (Fe) | ug/L | 28 | 168 | 16 | 14 | 13 | 7 | 20 | 1 | 3706114 |
| Dissolved Lead (Pb) | ug/L | 0.043 | 0.084 | 0.123 | 0.062 | 0.012 | 0.014 | 0.198 ⁽¹⁾ | 0.005 | 3706114 |
| Dissolved Lithium (Li) | ug/L | 3.9 | 2.4 | <0.5 | 2.2 | 3.9 | 3.4 | 3.7 | 0.5 | 3706114 |
| Dissolved Manganese (Mn) | ug/L | 72.6 | 82.4 | 2.12 | 0.59 | 10.9 | 9.27 | 5.03 | 0.05 | 3706114 |
| Dissolved Molybdenum (Mo) | ug/L | 0.62 | 0.31 | 0.21 | 0.08 | 1.04 | 0.97 | 1.11 | 0.05 | 3706114 |
| Dissolved Nickel (Ni) | ug/L | 0.55 | 0.41 | 0.29 | 0.20 | 3.22 | 0.78 | 0.43 | 0.02 | 3706114 |
| Dissolved Selenium (Se) | ug/L | 0.34 | 0.18 | 0.07 | <0.04 | 1.28 | 0.89 | 0.73 | 0.04 | 3706114 |
| Dissolved Silicon (Si) | ug/L | 5780 | 4650 | 5010 | 6720 | 3470 | 3030 | 5230 | 100 | 3706114 |
| Dissolved Silver (Ag) | ug/L | <0.005 | <0.005 | <0.005 | 0.015 | 0.010 | 0.007 | <0.005 | 0.005 | 3706114 |
| Dissolved Strontium (Sr) | ug/L | 279 | 215 | 58.2 | 28.9 | 222 | 202 | 165 | 0.05 | 3706114 |
| Dissolved Thallium (Tl) | ug/L | 0.002 | 0.003 | <0.002 | 0.003 | 0.003 | 0.004 | 0.003 | 0.002 | 3706114 |
| Dissolved Tin (Sn) | ug/L | 0.01 | 0.02 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 3706114 |
| Dissolved Titanium (Ti) | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 3706114 |
| Dissolved Uranium (U) | ug/L | 3.43 | 2.60 | 0.367 | 0.055 | 2.09 | 1.72 | 2.33 | 0.002 | 3706114 |
| Dissolved Vanadium (V) | ug/L | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 0.2 | 3706114 |
| Dissolved Zinc (Zn) | ug/L | 2.8 | 6.7 | 12.4 | 1.7 ⁽¹⁾ | 18.8 | 3.9 | 2.5 ⁽¹⁾ | 0.1 | 3706114 |
| Dissolved Zirconium (Zr) | ug/L | <0.1 | <0.1 | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 3706114 |
| Dissolved Calcium (Ca) | mg/L | 64.4 | 44.1 | 11.5 | 4.88 | 56.5 | 53.4 | 51.9 | 0.05 | 3708496 |
| Dissolved Magnesium (Mg) | mg/L | 20.5 | 7.20 | 2.18 | 0.99 | 18.4 | 16.4 | 10.8 | 0.05 | 3708496 |
| Dissolved Potassium (K) | mg/L | 0.99 | 1.31 | 0.54 | 0.17 | 0.83 | 0.85 | 1.48 | 0.05 | 3708496 |
| Dissolved Sodium (Na) | mg/L | 4.15 | 2.79 | 1.73 | 2.01 | 2.33 | 1.90 | 3.22 | 0.05 | 3708496 |
| Dissolved Sulphur (S) | mg/L | 23 | 10 | <3 | <3 | 27 | 23 | 17 | 3 | 3708496 |

RDL = Reportable Detection Limit

(1) - Dissolved greater than total. Reanalysis yields similar results

Maxxam Job #: B003745
Report Date: 2010/02/01

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: PI

LOW LEVEL DISSOLVED METALS - WATER (WATER)

| Maxxam ID | | S52980 | S52981 | S52982 | S52983 | S52984 | S52992 | | |
|----------------------------|--------------|---------------------|---------------------|---------------------|---------------------|------------------|------------------------|------------|-----------------|
| Sampling Date | | 2010/01/21 13:50 | 2010/01/21 14:18 | 2010/01/21 14:40 | 2010/01/21 14:55 | 2010/01/21 | 2010/01/21 | | |
| | Units | R6 | R4 | R3 | V6A | DUPLICATE | FIELD BLANK | RDL | QC Batch |
| Misc. Inorganics | | | | | | | | | |
| Dissolved Hardness (CaCO3) | mg/L | 158 | 228 | 243 | 166 | 231 | <0.5 | 0.5 | 3698049 |

Maxxam Job #: B003745
 Report Date: 2010/02/01

 ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

 Your P.O. #: SFN-09-02
 Sampler Initials: PI

LOW LEVEL DISSOLVED METALS - WATER (WATER)

| Maxxam ID | | S52980 | S52981 | S52982 | S52983 | S52984 | S52992 | | |
|----------------------------------|-------|---------------------|----------------------|---------------------|---------------------|------------|----------------------|-------|----------|
| Sampling Date | | 2010/01/21 13:50 | 2010/01/21 14:18 | 2010/01/21 14:40 | 2010/01/21 14:55 | 2010/01/21 | 2010/01/21 | | |
| | Units | R6 | R4 | R3 | V6A | DUPLICATE | FIELD BLANK | RDL | QC Batch |
| Dissolved Metals by ICPMS | | | | | | | | | |
| Dissolved Aluminum (Al) | ug/L | 2.1 | 1.7 | 1.2 | 6.0 | 1.7 | 1.2 | 0.2 | 3706114 |
| Dissolved Antimony (Sb) | ug/L | 0.12 | 0.11 | 0.07 | 0.10 | 0.12 | <0.02 | 0.02 | 3706114 |
| Dissolved Arsenic (As) | ug/L | 0.31 | 0.19 | 0.18 | 0.68 | 0.21 | <0.02 | 0.02 | 3706114 |
| Dissolved Barium (Ba) | ug/L | 86.8 | 78.2 | 65.8 | 45.0 | 77.9 | 0.36 ⁽¹⁾ | 0.02 | 3706114 |
| Dissolved Beryllium (Be) | ug/L | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 3706114 |
| Dissolved Bismuth (Bi) | ug/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 3706114 |
| Dissolved Boron (B) | ug/L | <50 | <50 | <50 | <50 | <50 | <50 | 50 | 3706114 |
| Dissolved Cadmium (Cd) | ug/L | <0.005 | <0.005 | 0.009 | 0.040 | 0.006 | <0.005 | 0.005 | 3706114 |
| Dissolved Chromium (Cr) | ug/L | <0.1 | 0.1 | 0.1 | 0.2 | 0.2 | <0.1 | 0.1 | 3706114 |
| Dissolved Cobalt (Co) | ug/L | 0.014 | 0.025 | 0.044 | 0.024 | 0.032 | <0.005 | 0.005 | 3706114 |
| Dissolved Copper (Cu) | ug/L | 0.25 | 1.74 ⁽¹⁾ | 0.40 | 0.43 | 0.49 | 0.35 ⁽¹⁾ | 0.05 | 3706114 |
| Dissolved Iron (Fe) | ug/L | 26 | 12 | 11 | 16 | 12 | <1 | 1 | 3706114 |
| Dissolved Lead (Pb) | ug/L | 0.016 | 0.200 ⁽¹⁾ | 0.012 | 0.075 | 0.017 | 0.041 ⁽¹⁾ | 0.005 | 3706114 |
| Dissolved Lithium (Li) | ug/L | 2.6 | 4.0 | 4.7 | 1.4 | 4.0 | <0.5 | 0.5 | 3706114 |
| Dissolved Manganese (Mn) | ug/L | 7.91 | 25.8 | 28.0 | 2.56 | 26.3 | 0.22 | 0.05 | 3706114 |
| Dissolved Molybdenum (Mo) | ug/L | 1.30 | 0.60 | 0.39 | 0.31 ⁽¹⁾ | 0.56 | <0.05 | 0.05 | 3706114 |
| Dissolved Nickel (Ni) | ug/L | 0.20 | 0.62 | 1.04 | 0.34 | 0.68 | <0.02 | 0.02 | 3706114 |
| Dissolved Selenium (Se) | ug/L | 0.83 | 0.76 | 0.52 | 0.15 | 0.75 | <0.04 | 0.04 | 3706114 |
| Dissolved Silicon (Si) | ug/L | 5060 | 5540 | 5160 | 5350 | 5550 | <100 | 100 | 3706114 |
| Dissolved Silver (Ag) | ug/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 3706114 |
| Dissolved Strontium (Sr) | ug/L | 138 | 220 | 232 | 202 | 220 | 0.05 | 0.05 | 3706114 |
| Dissolved Thallium (Tl) | ug/L | <0.002 | 0.003 | 0.004 | 0.004 | 0.003 | <0.002 | 0.002 | 3706114 |
| Dissolved Tin (Sn) | ug/L | 0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 3706114 |
| Dissolved Titanium (Ti) | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 3706114 |
| Dissolved Uranium (U) | ug/L | 2.31 | 2.30 | 2.32 | 3.97 | 2.28 | <0.002 | 0.002 | 3706114 |
| Dissolved Vanadium (V) | ug/L | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 0.2 | 3706114 |
| Dissolved Zinc (Zn) | ug/L | 0.8 | 6.0 ⁽¹⁾ | 5.2 | 24.9 | 3.9 | 1.3 ⁽¹⁾ | 0.1 | 3706114 |
| Dissolved Zirconium (Zr) | ug/L | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 3706114 |
| Dissolved Calcium (Ca) | mg/L | 46.5 | 68.3 | 72.6 | 48.7 | 69.4 | <0.05 | 0.05 | 3708496 |
| Dissolved Magnesium (Mg) | mg/L | 10.3 | 13.9 | 15.0 | 10.8 | 14.1 | <0.05 | 0.05 | 3708496 |
| Dissolved Potassium (K) | mg/L | 1.27 | 1.51 | 1.50 | 0.53 | 1.53 | <0.05 | 0.05 | 3708496 |
| Dissolved Sodium (Na) | mg/L | 2.05 | 4.28 | 4.72 | 2.01 | 4.37 | <0.05 | 0.05 | 3708496 |
| Dissolved Sulphur (S) | mg/L | 9 | 33 | 40 | 23 | 35 | <3 | 3 | 3708496 |

RDL = Reportable Detection Limit

(1) - Dissolved greater than total. Reanalysis yields similar results

Maxxam Job #: B003745
 Report Date: 2010/02/01

ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
 Sampler Initials: PI

LOW LEVEL TOTAL METALS - WATER (WATER)

| Maxxam ID | | S52973 | S52974 | S52975 | S52976 | S52977 | S52978 | S52979 | | |
|------------------------------|-------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-----|----------|
| Sampling Date | | 2010/01/21 09:05 | 2010/01/21 10:05 | 2010/01/21 11:05 | 2010/01/21 11:35 | 2010/01/21 12:40 | 2010/01/21 13:10 | 2010/01/21 13:25 | | |
| | Units | VW1 | R1 | VR | FC | P1 | P4 | A1 | RDL | QC Batch |
| Calculated Parameters | | | | | | | | | | |
| Total Hardness (CaCO3) | mg/L | 253 | 145 | 41.5 | 17.7 | 216 | 221 | 181 | 0.5 | 3698671 |

RDL = Reportable Detection Limit

Maxxam Job #: B003745
 Report Date: 2010/02/01

 ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

 Your P.O. #: SFN-09-02
 Sampler Initials: PI

LOW LEVEL TOTAL METALS - WATER (WATER)

| Maxxam ID | | S52973 | S52974 | S52975 | S52976 | S52977 | S52978 | S52979 | | |
|------------------------------|-------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-------|----------|
| Sampling Date | | 2010/01/21 09:05 | 2010/01/21 10:05 | 2010/01/21 11:05 | 2010/01/21 11:35 | 2010/01/21 12:40 | 2010/01/21 13:10 | 2010/01/21 13:25 | | |
| | Units | VW1 | R1 | VR | FC | P1 | P4 | A1 | RDL | QC Batch |
| Total Metals by ICPMS | | | | | | | | | | |
| Total Aluminum (Al) | ug/L | 27.4 | 28.4 | 116 | 24.8 | 5.6 | 4.4 | 13.4 | 0.2 | 3699996 |
| Total Antimony (Sb) | ug/L | 0.06 | 0.12 | 0.16 | <0.02 | 0.16 | 0.19 | 0.14 | 0.02 | 3699996 |
| Total Arsenic (As) | ug/L | 0.59 | 0.97 | 0.49 | 0.06 | 0.28 | 0.28 | 0.66 | 0.02 | 3699996 |
| Total Barium (Ba) | ug/L | 79.0 | 68.4 | 38.5 | 18.0 | 80.6 | 66.2 | 76.2 | 0.02 | 3699996 |
| Total Beryllium (Be) | ug/L | <0.01 | 0.01 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 3699996 |
| Total Bismuth (Bi) | ug/L | <0.005 | <0.005 | 0.007 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 3699996 |
| Total Boron (B) | ug/L | <50 | <50 | <50 | <50 | <50 | <50 | <50 | 50 | 3699996 |
| Total Cadmium (Cd) | ug/L | 0.015 | 0.045 | 0.080 | 0.008 | 0.153 | 0.053 | 0.008 | 0.005 | 3699996 |
| Total Chromium (Cr) | ug/L | 0.1 | 0.3 | 0.6 | 0.1 | <0.1 | <0.1 | 0.2 | 0.1 | 3699996 |
| Total Cobalt (Co) | ug/L | 0.122 | 0.118 | 0.097 | 0.016 | 0.019 | 0.028 | 0.029 | 0.005 | 3699996 |
| Total Copper (Cu) | ug/L | 0.55 | 1.18 | 1.78 | 0.28 | 0.45 | 0.33 | 0.50 | 0.05 | 3699996 |
| Total Iron (Fe) | ug/L | 128 | 1370 | 176 | 20 | 29 | 18 | 41 | 1 | 3699996 |
| Total Lead (Pb) | ug/L | 0.229 | 0.850 | 2.04 | 0.076 | 0.016 | 0.044 | 0.086 | 0.005 | 3699996 |
| Total Lithium (Li) | ug/L | 4.0 | 2.5 | <0.5 | 2.3 | 4.0 | 3.4 | 3.7 | 0.5 | 3699996 |
| Total Manganese (Mn) | ug/L | 85.3 | 108 | 26.7 | 0.62 | 10.9 | 9.08 | 10.2 | 0.05 | 3699996 |
| Total Molybdenum (Mo) | ug/L | 0.55 | 0.29 | 0.16 | 0.08 | 1.05 | 0.97 | 1.04 | 0.05 | 3699996 |
| Total Nickel (Ni) | ug/L | 0.65 | 0.56 | 0.45 | 0.20 | 3.18 | 0.77 | 0.49 | 0.02 | 3699996 |
| Total Selenium (Se) | ug/L | 0.33 | 0.19 | 0.07 | <0.04 | 1.41 | 0.97 | 0.77 | 0.04 | 3699996 |
| Total Silicon (Si) | ug/L | 5700 | 5220 | 5180 | 7650 | 3770 | 3300 | 5560 | 100 | 3699996 |
| Total Silver (Ag) | ug/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 3699996 |
| Total Strontium (Sr) | ug/L | 292 | 227 | 64.3 | 30.6 | 228 | 213 | 172 | 0.05 | 3699996 |
| Total Thallium (Tl) | ug/L | 0.002 | 0.003 | 0.005 | <0.002 | 0.002 | 0.003 | <0.002 | 0.002 | 3699996 |
| Total Tin (Sn) | ug/L | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 3699996 |
| Total Titanium (Ti) | ug/L | <0.5 | 0.8 | 2.0 | 0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 3699996 |
| Total Uranium (U) | ug/L | 3.59 | 2.67 | 0.789 | 0.072 | 2.12 | 1.83 | 2.38 | 0.002 | 3699996 |
| Total Vanadium (V) | ug/L | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 0.2 | 3699996 |
| Total Zinc (Zn) | ug/L | 3.5 | 11.8 | 15.3 | 1.2 | 17.8 | 4.3 | 2.1 | 0.1 | 3699996 |
| Total Zirconium (Zr) | ug/L | <0.1 | <0.1 | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 3699996 |
| Total Calcium (Ca) | mg/L | 66.2 | 45.4 | 12.6 | 5.28 | 56.0 | 58.3 | 53.6 | 0.05 | 3705589 |
| Total Magnesium (Mg) | mg/L | 21.4 | 7.65 | 2.42 | 1.10 | 18.5 | 18.2 | 11.4 | 0.05 | 3705589 |
| Total Potassium (K) | mg/L | 1.00 | 1.32 | 0.52 | 0.18 | 0.80 | 0.90 | 1.49 | 0.05 | 3705589 |
| Total Sodium (Na) | mg/L | 4.33 | 2.98 | 1.83 | 2.20 | 2.37 | 2.14 | 3.34 | 0.05 | 3705589 |
| Total Sulphur (S) | mg/L | 25 | 10 | <3 | <3 | 27 | 26 | 19 | 3 | 3705589 |

RDL = Reportable Detection Limit

Maxxam Job #: B003745
 Report Date: 2010/02/01

ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
 Sampler Initials: PI

LOW LEVEL TOTAL METALS - WATER (WATER)

| Maxxam ID | | S52980 | S52981 | S52982 | S52983 | S52984 | S52992 | | |
|------------------------------|--------------|---------------------|---------------------|---------------------|---------------------|------------------|------------------------|------------|-----------------|
| Sampling Date | | 2010/01/21 13:50 | 2010/01/21 14:18 | 2010/01/21 14:40 | 2010/01/21 14:55 | 2010/01/21 | 2010/01/21 | | |
| | Units | R6 | R4 | R3 | V6A | DUPLICATE | FIELD BLANK | RDL | QC Batch |
| Calculated Parameters | | | | | | | | | |
| Total Hardness (CaCO3) | mg/L | 168 | 239 | 252 | 165 | 235 | <0.5 | 0.5 | 3698671 |

Maxxam Job #: B003745
 Report Date: 2010/02/01

 ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

 Your P.O. #: SFN-09-02
 Sampler Initials: PI

LOW LEVEL TOTAL METALS - WATER (WATER)

| Maxxam ID | | S52980 | S52981 | S52982 | S52983 | S52984 | S52992 | | |
|------------------------------|-------|---------------------|---------------------|---------------------|---------------------|------------|----------------|-------|----------|
| Sampling Date | | 2010/01/21 13:50 | 2010/01/21 14:18 | 2010/01/21 14:40 | 2010/01/21 14:55 | 2010/01/21 | 2010/01/21 | | |
| | Units | R6 | R4 | R3 | V6A | DUPLICATE | FIELD BLANK | RDL | QC Batch |
| Total Metals by ICPMS | | | | | | | | | |
| Total Aluminum (Al) | ug/L | 6.3 | 3.3 | 2.2 | 16.2 | 2.9 | 0.9 | 0.2 | 3699996 |
| Total Antimony (Sb) | ug/L | 0.12 | 0.13 | 0.08 | 0.09 | 0.12 | <0.02 | 0.02 | 3699996 |
| Total Arsenic (As) | ug/L | 0.48 | 0.23 | 0.16 | 0.78 | 0.24 | <0.02 | 0.02 | 3699996 |
| Total Barium (Ba) | ug/L | 84.5 | 84.3 | 68.2 | 43.5 | 79.0 | 0.07 | 0.02 | 3699996 |
| Total Beryllium (Be) | ug/L | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | 3699996 |
| Total Bismuth (Bi) | ug/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 3699996 |
| Total Boron (B) | ug/L | <50 | <50 | <50 | <50 | <50 | <50 | 50 | 3699996 |
| Total Cadmium (Cd) | ug/L | 0.012 | 0.007 | 0.008 | 0.049 | 0.005 | <0.005 | 0.005 | 3699996 |
| Total Chromium (Cr) | ug/L | 0.1 | 0.2 | 0.1 | <0.1 | 0.2 | <0.1 | 0.1 | 3699996 |
| Total Cobalt (Co) | ug/L | 0.033 | 0.044 | 0.041 | 0.037 | 0.033 | <0.005 | 0.005 | 3699996 |
| Total Copper (Cu) | ug/L | 0.32 | 0.44 | 0.42 | 0.38 | 0.44 | <0.05 | 0.05 | 3699996 |
| Total Iron (Fe) | ug/L | 118 | 38 | 34 | 59 | 37 | <1 | 1 | 3699996 |
| Total Lead (Pb) | ug/L | 0.016 | 0.073 | 0.044 | 0.443 | 0.069 | 0.022 | 0.005 | 3699996 |
| Total Lithium (Li) | ug/L | 2.5 | 4.2 | 4.9 | 1.3 | 4.0 | <0.5 | 0.5 | 3699996 |
| Total Manganese (Mn) | ug/L | 14.9 | 33.1 | 58.3 | 6.34 | 33.3 | <0.05 | 0.05 | 3699996 |
| Total Molybdenum (Mo) | ug/L | 1.16 | 0.60 | 0.33 | 0.15 | 0.51 | <0.05 | 0.05 | 3699996 |
| Total Nickel (Ni) | ug/L | 0.26 | 0.68 | 1.07 | 0.38 | 0.67 | 0.04 | 0.02 | 3699996 |
| Total Selenium (Se) | ug/L | 0.76 | 0.74 | 0.55 | 0.16 | 0.73 | <0.04 | 0.04 | 3699996 |
| Total Silicon (Si) | ug/L | 4800 | 5640 | 5760 | 5500 | 5510 | <100 | 100 | 3699996 |
| Total Silver (Ag) | ug/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 3699996 |
| Total Strontium (Sr) | ug/L | 141 | 242 | 245 | 202 | 229 | 0.05 | 0.05 | 3699996 |
| Total Thallium (Tl) | ug/L | <0.002 | 0.003 | <0.002 | 0.004 | 0.003 | <0.002 | 0.002 | 3699996 |
| Total Tin (Sn) | ug/L | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 3699996 |
| Total Titanium (Ti) | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 3699996 |
| Total Uranium (U) | ug/L | 2.33 | 2.54 | 2.41 | 3.87 | 2.37 | 0.007 | 0.002 | 3699996 |
| Total Vanadium (V) | ug/L | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 0.2 | 3699996 |
| Total Zinc (Zn) | ug/L | 0.6 | 4.2 | 6.1 | 25.8 | 4.1 | 0.3 | 0.1 | 3699996 |
| Total Zirconium (Zr) | ug/L | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 3699996 |
| Total Calcium (Ca) | mg/L | 49.1 | 71.7 | 75.2 | 48.6 | 70.4 | <0.05 | 0.05 | 3705589 |
| Total Magnesium (Mg) | mg/L | 11.0 | 14.7 | 15.7 | 10.7 | 14.3 | <0.05 | 0.05 | 3705589 |
| Total Potassium (K) | mg/L | 1.31 | 1.52 | 1.53 | 0.51 | 1.52 | <0.05 | 0.05 | 3705589 |
| Total Sodium (Na) | mg/L | 2.16 | 4.50 | 4.97 | 1.94 | 4.40 | <0.05 | 0.05 | 3705589 |
| Total Sulphur (S) | mg/L | 8 | 38 | 42 | 23 | 36 | <3 | 3 | 3705589 |

RDL = Reportable Detection Limit

Maxxam Job #: B003745
Report Date: 2010/02/01

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: PI

| | |
|-----------|-------|
| Package 1 | 1.0°C |
|-----------|-------|

Each temperature is the average of up to three cooler temperatures taken at receipt

General Comments

Sample S52975-: Ion Balance: NC = Not Calculable due to low ion sum [< 3 meq/L].

Sample S52976-: Ion Balance: NC = Not Calculable due to low ion sum [< 3 meq/L].

Sample S52992-: Ion Balance: NC = Not Calculable due to low ion sum [< 3 meq/L].

Maxxam Job #: B003745
Report Date: 2010/02/01

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: PI

QUALITY ASSURANCE REPORT

| QC Batch | Parameter | Date | Matrix Spike | | Spiked Blank | | Method Blank | | RPD | |
|----------|-----------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | Units | Value (%) | QC Limits |
| 3697978 | Total Phosphorus (P) | 2010/01/25 | 104 | 80 - 120 | 95 | 80 - 120 | <0.005 | mg/L | NC | 20 |
| 3698395 | Fluoride (F) | 2010/01/25 | 105 | 80 - 120 | 100 | 80 - 120 | <0.01 | mg/L | 0.8 | 20 |
| 3699395 | Total Suspended Solids | 2010/01/25 | | | 101 | 80 - 120 | <1 | mg/L | | |
| 3699932 | Total Dissolved Solids | 2010/01/26 | 92 | 80 - 120 | 102 | 80 - 120 | <10 | mg/L | 2.8 | 20 |
| 3699996 | Total Arsenic (As) | 2010/01/26 | 99 | 80 - 120 | 93 | 80 - 120 | <0.02 | ug/L | 7.5 | 20 |
| 3699996 | Total Beryllium (Be) | 2010/01/26 | 105 | 80 - 120 | 102 | 80 - 120 | <0.01 | ug/L | NC | 20 |
| 3699996 | Total Cadmium (Cd) | 2010/01/26 | 101 | 80 - 120 | 98 | 80 - 120 | <0.005 | ug/L | NC | 20 |
| 3699996 | Total Chromium (Cr) | 2010/01/26 | 98 | 80 - 120 | 97 | 80 - 120 | <0.1 | ug/L | NC | 20 |
| 3699996 | Total Cobalt (Co) | 2010/01/26 | 93 | 80 - 120 | 96 | 80 - 120 | <0.005 | ug/L | 4.5 | 20 |
| 3699996 | Total Copper (Cu) | 2010/01/26 | 91 | 80 - 120 | 102 | 80 - 120 | <0.05 | ug/L | 2.5 | 20 |
| 3699996 | Total Lead (Pb) | 2010/01/26 | 99 | 80 - 120 | 107 | 80 - 120 | <0.005 | ug/L | 2.0 | 20 |
| 3699996 | Total Lithium (Li) | 2010/01/26 | 101 | 80 - 120 | 103 | 80 - 120 | <0.5 | ug/L | 4.7 | 20 |
| 3699996 | Total Nickel (Ni) | 2010/01/26 | 93 | 80 - 120 | 97 | 80 - 120 | <0.02 | ug/L | 2.7 | 20 |
| 3699996 | Total Selenium (Se) | 2010/01/26 | 102 | 80 - 120 | 93 | 80 - 120 | <0.04 | ug/L | 15.6 | 20 |
| 3699996 | Total Uranium (U) | 2010/01/26 | 104 | 80 - 120 | 107 | 80 - 120 | <0.002 | ug/L | 1.4 | 20 |
| 3699996 | Total Vanadium (V) | 2010/01/26 | 99 | 80 - 120 | 94 | 80 - 120 | <0.2 | ug/L | NC | 20 |
| 3699996 | Total Zinc (Zn) | 2010/01/26 | 102 | 80 - 120 | 107 | 80 - 120 | <0.1 | ug/L | 1.9 | 20 |
| 3699996 | Total Aluminum (Al) | 2010/01/26 | | | | | <0.2 | ug/L | 0.8 | 20 |
| 3699996 | Total Antimony (Sb) | 2010/01/26 | | | | | <0.02 | ug/L | NC | 20 |
| 3699996 | Total Barium (Ba) | 2010/01/26 | | | | | <0.02 | ug/L | 0.6 | 20 |
| 3699996 | Total Bismuth (Bi) | 2010/01/26 | | | | | <0.005 | ug/L | NC | 20 |
| 3699996 | Total Boron (B) | 2010/01/26 | | | | | <50 | ug/L | NC | 20 |
| 3699996 | Total Iron (Fe) | 2010/01/26 | | | | | <1 | ug/L | 7.6 | 20 |
| 3699996 | Total Manganese (Mn) | 2010/01/26 | | | | | <0.05 | ug/L | 0.9 | 20 |
| 3699996 | Total Molybdenum (Mo) | 2010/01/26 | | | | | <0.05 | ug/L | 1 | 20 |
| 3699996 | Total Silicon (Si) | 2010/01/26 | | | | | <100 | ug/L | 13.8 | 20 |
| 3699996 | Total Silver (Ag) | 2010/01/26 | | | | | <0.005 | ug/L | NC | 20 |
| 3699996 | Total Strontium (Sr) | 2010/01/26 | | | | | <0.05 | ug/L | 0 | 20 |
| 3699996 | Total Thallium (Tl) | 2010/01/26 | | | | | <0.002 | ug/L | NC | 20 |
| 3699996 | Total Tin (Sn) | 2010/01/26 | | | | | <0.01 | ug/L | NC | 20 |
| 3699996 | Total Titanium (Ti) | 2010/01/26 | | | | | <0.5 | ug/L | NC | 20 |
| 3699996 | Total Zirconium (Zr) | 2010/01/26 | | | | | <0.1 | ug/L | NC | 20 |
| 3700723 | Ammonia (N) | 2010/01/25 | 100 | 80 - 120 | 91 | 80 - 120 | <0.005 | mg/L | NC | 20 |
| 3700733 | Nitrate plus Nitrite (N) | 2010/01/25 | 99 | 80 - 120 | 105 | 80 - 120 | <0.02 | mg/L | NC | 25 |
| 3700734 | Nitrite (N) | 2010/01/25 | 102 | 80 - 120 | 105 | 80 - 120 | <0.005 | mg/L | 1.3 | 20 |
| 3700992 | Conductivity | 2010/01/26 | | | 102 | 80 - 120 | <1 | uS/cm | NC | 20 |
| 3700993 | Alkalinity (Total as CaCO3) | 2010/01/26 | NC | 80 - 120 | 99 | 80 - 120 | <0.5 | mg/L | NC | 20 |
| 3700993 | Alkalinity (PP as CaCO3) | 2010/01/26 | | | | | <0.5 | mg/L | NC | 20 |
| 3700993 | Bicarbonate (HCO3) | 2010/01/26 | | | | | <0.5 | mg/L | NC | 20 |

Maxxam Job #: B003745
Report Date: 2010/02/01

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: PI

QUALITY ASSURANCE REPORT

| QC Batch | Parameter | Date | Matrix Spike | | Spiked Blank | | Method Blank | | RPD | |
|----------|--------------------------------|------------|--------------|-----------|--------------|-----------|------------------|-------|-----------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | Units | Value (%) | QC Limits |
| 3700993 | Carbonate (CO3) | 2010/01/26 | | | | | <0.5 | mg/L | NC | 20 |
| 3700993 | Hydroxide (OH) | 2010/01/26 | | | | | <0.5 | mg/L | NC | 20 |
| 3704971 | Weak Acid Dissoc. Cyanide (CN) | 2010/01/26 | 101 | 80 - 120 | 99 | 80 - 120 | <0.0005 | mg/L | NC | 20 |
| 3705589 | Total Calcium (Ca) | 2010/01/26 | | | | | <0.05 | mg/L | 0.8 | 20 |
| 3705589 | Total Magnesium (Mg) | 2010/01/26 | | | | | <0.05 | mg/L | 0.5 | 20 |
| 3705589 | Total Potassium (K) | 2010/01/26 | | | | | <0.05 | mg/L | 0.02 | 20 |
| 3705589 | Total Sodium (Na) | 2010/01/26 | | | | | <0.05 | mg/L | 1.2 | 20 |
| 3705589 | Total Sulphur (S) | 2010/01/26 | | | | | <3 | mg/L | 5.0 | 20 |
| 3705714 | Dissolved Sulphate (SO4) | 2010/01/26 | NC | 80 - 120 | 96 | 80 - 120 | <0.5 | mg/L | 0.5 | 20 |
| 3705716 | Dissolved Chloride (Cl) | 2010/01/26 | 114 | 80 - 120 | 103 | 80 - 120 | <0.5 | mg/L | 4.7 | 20 |
| 3706114 | Dissolved Arsenic (As) | 2010/01/27 | 101 | 80 - 120 | 95 | 80 - 120 | <0.02 | ug/L | 0.07 | 20 |
| 3706114 | Dissolved Beryllium (Be) | 2010/01/27 | 109 | 80 - 120 | 105 | 80 - 120 | <0.01 | ug/L | NC | 20 |
| 3706114 | Dissolved Cadmium (Cd) | 2010/01/27 | 103 | 80 - 120 | 97 | 80 - 120 | <0.005 | ug/L | NC | 20 |
| 3706114 | Dissolved Chromium (Cr) | 2010/01/27 | 101 | 80 - 120 | 99 | 80 - 120 | <0.1 | ug/L | NC | 20 |
| 3706114 | Dissolved Cobalt (Co) | 2010/01/27 | 95 | 80 - 120 | 97 | 80 - 120 | <0.005 | ug/L | 11.3 | 20 |
| 3706114 | Dissolved Copper (Cu) | 2010/01/27 | 95 | 80 - 120 | 103 | 80 - 120 | <0.05 | ug/L | 5.8 | 20 |
| 3706114 | Dissolved Lead (Pb) | 2010/01/27 | 97 | 80 - 120 | 105 | 80 - 120 | <0.005 | ug/L | 2.7 | 20 |
| 3706114 | Dissolved Lithium (Li) | 2010/01/27 | 104 | 80 - 120 | 103 | 80 - 120 | <0.5 | ug/L | 2.1 | 20 |
| 3706114 | Dissolved Nickel (Ni) | 2010/01/27 | 94 | 80 - 120 | 97 | 80 - 120 | <0.02 | ug/L | 0.3 | 20 |
| 3706114 | Dissolved Selenium (Se) | 2010/01/27 | 98 | 80 - 120 | 94 | 80 - 120 | <0.04 | ug/L | 10.8 | 20 |
| 3706114 | Dissolved Uranium (U) | 2010/01/27 | 102 | 80 - 120 | 102 | 80 - 120 | 0.002, RDL=0.002 | ug/L | 0.3 | 20 |
| 3706114 | Dissolved Vanadium (V) | 2010/01/27 | 103 | 80 - 120 | 96 | 80 - 120 | <0.2 | ug/L | NC | 20 |
| 3706114 | Dissolved Zinc (Zn) | 2010/01/27 | 94 | 80 - 120 | 100 | 80 - 120 | <0.1 | ug/L | 0.2 | 20 |
| 3706114 | Dissolved Aluminum (Al) | 2010/01/27 | | | | | <0.2 | ug/L | 7.9 | 20 |
| 3706114 | Dissolved Antimony (Sb) | 2010/01/27 | | | | | <0.02 | ug/L | NC | 20 |
| 3706114 | Dissolved Barium (Ba) | 2010/01/27 | | | | | <0.02 | ug/L | 1.5 | 20 |
| 3706114 | Dissolved Bismuth (Bi) | 2010/01/27 | | | | | <0.005 | ug/L | NC | 20 |
| 3706114 | Dissolved Boron (B) | 2010/01/27 | | | | | <50 | ug/L | NC | 20 |
| 3706114 | Dissolved Iron (Fe) | 2010/01/27 | | | | | <1 | ug/L | 11.3 | 20 |
| 3706114 | Dissolved Manganese (Mn) | 2010/01/27 | | | | | <0.05 | ug/L | 2.2 | 20 |
| 3706114 | Dissolved Molybdenum (Mo) | 2010/01/27 | | | | | <0.05 | ug/L | 1.1 | 20 |
| 3706114 | Dissolved Silicon (Si) | 2010/01/27 | | | | | <100 | ug/L | 11.8 | 20 |
| 3706114 | Dissolved Silver (Ag) | 2010/01/27 | | | | | <0.005 | ug/L | NC | 20 |
| 3706114 | Dissolved Strontium (Sr) | 2010/01/27 | | | | | <0.05 | ug/L | 0.4 | 20 |
| 3706114 | Dissolved Thallium (Tl) | 2010/01/27 | | | | | <0.002 | ug/L | NC | 20 |
| 3706114 | Dissolved Tin (Sn) | 2010/01/27 | | | | | <0.01 | ug/L | NC | 20 |
| 3706114 | Dissolved Titanium (Ti) | 2010/01/27 | | | | | <0.5 | ug/L | NC | 20 |
| 3706114 | Dissolved Zirconium (Zr) | 2010/01/27 | | | | | <0.1 | ug/L | NC | 20 |
| 3708496 | Dissolved Calcium (Ca) | 2010/01/27 | | | | | <0.05 | mg/L | 1.8 | 20 |

Maxxam Job #: B003745
 Report Date: 2010/02/01

ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
 Sampler Initials: PI

QUALITY ASSURANCE REPORT

| QC Batch | Parameter | Date | Matrix Spike | | Spiked Blank | | Method Blank | | RPD | |
|----------|------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | Units | Value (%) | QC Limits |
| 3708496 | Dissolved Magnesium (Mg) | 2010/01/27 | | | | | <0.05 | mg/L | 2.7 | 20 |
| 3708496 | Dissolved Potassium (K) | 2010/01/27 | | | | | <0.05 | mg/L | 0.7 | 20 |
| 3708496 | Dissolved Sodium (Na) | 2010/01/27 | | | | | <0.05 | mg/L | 2.9 | 20 |
| 3708496 | Dissolved Sulphur (S) | 2010/01/27 | | | | | <3 | mg/L | 2.6 | 20 |
| 3709213 | Total Organic Carbon (C) | 2010/01/28 | 100 | 80 - 120 | 100 | 80 - 120 | <0.5 | mg/L | 2.3 | 20 |
| 3709221 | Dissolved Organic Carbon (C) | 2010/01/28 | NC | 80 - 120 | 99 | 80 - 120 | <0.5 | mg/L | 0.4 | 20 |

N/A = Not Applicable

RDL = Reportable Detection Limit

RPD = Relative Percent Difference

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.

NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.



8577 Commerce Court Phone: (604) 444-4808
 Burnaby, BC V5A 4N5 Fax: (604) 444-4511
 www.maxxamanalytics.com Toll-Free: 1-800-440-4808

CHAIN-OF CUSTODY RECORD AND ANALYSIS REQUEST

B003745



08308266

| | | |
|------------------------------|------------------|-----------------------|
| LAB USE ONLY MAXXAM JOB # | ANALYSIS REQUEST | LAB USE ONLY COC # |
|------------------------------|------------------|-----------------------|

| | |
|--|---|
| COMPANY NAME: Access Consulting Group | CLIENT PROJECT NO.: SFN-07-01 |
| COMPANY ADDRESS: #3 Calcite Business Center 151 Industrial Rd Whitehorse, YT Y1A 2V3 | TEL: (867) 668-6463 |
| SAMPLER NAME (PRINT): Paul Inglis | E-MAIL: paul@accessconsulting.ca david@accessconsulting.ca |
| PROJECT MANAGER: David Petkovich | LABORATORY CONTACT: Kim Webber |
| | FAX: (867) 668-6680 |

| FIELD SAMPLE ID | MATRIX | | | | | SAMPLING | | | # CONTAINERS | General (Alk, EC, pH) | TSS (TDS) | Total Metals (Low Level) | Dissolved Metals (Low Level) | DOC | Anions - (Cl, F, NH3, NO2, NO3, SO4) | Cyanide | Phosphorus, TOC |
|-----------------|-------------|---------------|----------------|------|-------|-----------|-------|---|--------------|-----------------------|-----------|--------------------------|------------------------------|-----|--------------------------------------|---------|-----------------|
| | GROUNDWATER | SURFACE WATER | DRINKING WATER | SOIL | OTHER | DATE | TIME | | | | | | | | | | |
| 1 VW1 | | | X | | | 21-Jan-10 | 9:05 | 8 | X | X | X | X | X | X | X | X | |
| 2 R1 | | | X | | | 21-Jan-10 | 10:05 | 8 | X | X | X | X | X | X | X | X | |
| 3 VR | | | X | | | 21-Jan-10 | 11:05 | 8 | X | X | X | X | X | X | X | X | |
| 4 FC | | | X | | | 21-Jan-10 | 11:35 | 8 | X | X | X | X | X | X | X | X | |
| 5 P1 | | | X | | | 21-Jan-10 | 12:40 | 8 | X | X | X | X | X | X | X | X | |
| 6 P4 | | | X | | | 21-Jan-10 | 13:10 | 8 | X | X | X | X | X | X | X | X | |
| 7 A1 | | | X | | | 21-Jan-10 | 13:25 | 8 | X | X | X | X | X | X | X | X | |
| 8 R6 | | | X | | | 21-Jan-10 | 13:50 | 8 | X | X | X | X | X | X | X | X | |
| 9 R4 | | | X | | | 21-Jan-10 | 14:18 | 8 | X | X | X | X | X | X | X | X | |
| 10 R3 | | | X | | | 21-Jan-10 | 14:40 | 8 | X | X | X | X | X | X | X | X | |
| 11 V6A | | | X | | | 21-Jan-10 | 14:55 | 8 | X | X | X | X | X | X | X | X | |
| 12 Duplicate | | | X | | | 21-Jan-10 | | 8 | X | X | X | X | X | X | X | X | |

| | | | | | | |
|--|--|---|-----------------------------------|--|-----------|---------------|
| 13 Field Blank TAT (Turnaround Time) LESS THAN 5 DAY TAT MUST HAVE PRIOR APPROVAL * Some exceptions apply - please contact laboratory STANDARD 5 BUSINESS DAYS RUSH 3 BUSINESS DAYS RUSH 2 BUSINESS DAYS URGENT 1 BUSINESS DAY OTHER BUSINESS DAYS | PO NUMBER OR QUOTE NUMBER: SFN-09-02 | SPECIAL DETECTION LIMITS / CONTAMINANT TYPE: AS per previous SFN-07-01/ SFN-09-02 sampling | CCME CSR AB TIER 1 OTHER | LAB USE ONLY ARRIVAL TEMPERATURE °C: 111 | DUE DATE: | LOG IN CHECK: |
| | ACCOUNTING CONTACT: Colette MacMillon | SPECIAL REPORTING OR BILLING INSTRUCTIONS: | | # JARS USED: | | |
| RELINQUISHED BY SAMPLER: Paul Inglis | DATE: DD/MM/YY 22/01/2010 | TIME: 16:00 | RECEIVED BY: | | | |
| RELINQUISHED BY: | DATE: DD/MM/YY | TIME: | RECEIVED BY: | | | |
| RELINQUISHED BY: | DATE: DD/MM/YY 25/01/2010 | TIME: 10:00 | RECEIVED BY LABORATORY: CWJ | | | |

CUSTODY RECORD



8577 Commerce Court Phone: (604) 444-4808
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CHAIN-OF CUSTODY RECORD AND ANALYSIS REQUEST

08308277

| COMPANY NAME: Access Consulting Group | | CLIENT PROJECT NO.: SFN-07-01 | | MAXXAM JOB # | | ANALYSIS REQUEST | | LAB USE COC # | | | | | | | | |
|--|-------------|-------------------------------------|---------------|---|------|---------------------|-----------|------------------|------------------------|-----------|--------------------------|------------------------------|-----|--------------------------------------|---------|-----------------|
| COMPANY ADDRESS: #3 Calcite Business Center 151 Industrial Rd Whitehorse, YT Y1A 2V3 | | TEL: (867) 668-6463 | | E-MAIL: paul@accessconsulting.ca david@accessconsulting.ca | | FAX: (867) 668-6680 | | LAB USE ONLY | | | | | | | | |
| SAMPLER NAME (PRINT): Paul Inglis | | PROJECT MANAGER: David Petkovich | | LABORATORY CONTACT: Kim Webber | | | | | | | | | | | | |
| FIELD SAMPLE ID | | MATRIX | | | | SAMPLING | | # CONTAINERS | General (Alk., EC, pH) | TSS (TDS) | Total Metals (Low Level) | Dissolved Metals (Low Level) | DOC | Anions - (Cl, F, NH3, NO2, NO3, SO4) | Cyanide | Phosphorus, TOC |
| | | GROUNDWATER | SURFACE WATER | DRINKING WATER | SOIL | OTHER | DATE | | | | | | | | | |
| 1 | Field Blank | X | | | | | 21-Jan-10 | | 8 | X | X | X | X | X | X | X |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
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| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |

| | | | | | | |
|---|--|---|--------------|-------------------------|-----------|---------------|
| TAT (Turnaround Time) LESS THAN 5 DAY TAT MUST HAVE PRIOR APPROVAL | PO NUMBER OR QUOTE NUMBER: SFN-09-02 | SPECIAL DETECTION LIMITS / CONTAMINANT TYPE: AS per previous SFN-07-01/ SFN-09-02 sampling | CCME | ARRIVAL TEMPERATURE °C: | DUE DATE: | LOG IN CHECK: |
| * Some exceptions apply - please contact laboratory | ACCOUNTING CONTACT: Colette MacMillon | SPECIAL REPORTING OR BILLING INSTRUCTIONS: | CSR | | | |
| STANDARD 5 BUSINESS DAYS | RELINQUISHED BY SAMPLER: Paul Inglis | DATE: DD/MM/YY 22/01/2010 | AB TIER 1 | | | |
| RUSH 3 BUSINESS DAYS | RELINQUISHED BY: | TIME: 16:00 | OTHER | | | |
| RUSH 2 BUSINESS DAYS | RELINQUISHED BY: | | # JARS USED: | | | |
| URGENT 1 BUSINESS DAY | RELINQUISHED BY: | | | | | |
| OTHER BUSINESS DAYS | RELINQUISHED BY: | | | | | |
| | RELINQUISHED BY: | | | | | |

CUSTODY RECORD



A MEMBER OF ALEXCO RESOURCE GROUP

3 Calcite Business Centre, 151 Industrial Road, Whitehorse, Yukon Y1A 2V3

PHONE (867) 668-6463 FAX (867) 667-6680

WWW.ACCESSCONSULTING.CA

MEMORANDUM

TO: File

CC: David Petkovich
Scott Keeseey
Kurt Neunherz

FROM: Paul Inglis

RE: **February 2010 water sampling at Faro (Pelly River Interim Aquatic Ecosystem Monitoring Plan)**

PROJECT #: SFN-09-02

DATE: March 4, 2010

The following is a brief trip report for the monthly water sampling event in the area of the Anvil Range Mine for the month of February 2010.

In the late morning of February 20th, 2009 Paul Inglis and Kurt Neunherz (ACG) departed from Whitehorse to travel to Pelly Crossing where they picked up Randy Profeit (SFN). These three constituted the field crew for the sampling event. They then drove to Faro arriving at 18:00 and proceeded to sample stations VW1 and VW2.

On February 24th the field crew drove the Mine Access Road to the mine site, sampling station R1 arriving at the minesite at 8:45am. After checking in with the mine security the field crew were given the 2010 site safety orientation. The crew then sampled sites VR and FC (within the compound). Weather while sampling in the morning was cloudy with light to heavy snow and poor visibility. The temperature was around -10°C. The crew called Delmar of Capital Helicopters and decided that the weather conditions were too poor to sample the stations that require a helicopter. The weather forecast for Faro for Thursday was also poor and so the decision was made to postpone sampling until Friday February 26th. The field crew then returned to Pelly and sampled site P5 (The

Pelly River near Pelly Crossing), dropped off Randy Profeit, and Paul Inglis and Kurt Neunherz returned to Whitehorse.

On Friday February 26th Paul Inglis and Kurt Neunherz departed Whitehorse for Faro travelling by Helicopter to Faro with pilot Darren of Capital Helicopters. The weather conditions while sampling were partially cloudy and the temperature was around -5°C. The following sites were sampled by helicopter: P4, A1, R6, R4, R3, V6A, and P1. In-situ measurements were taken with an YSI multi-meter. Eight sample bottles were collected at each station with the following parameters being screened for:

- General (including Alkalinity, conductivity and pH)
- TSS and TDS
- Total metals
- Dissolved metals (Field Filtered)
- Dissolved Organic Carbon (Field Filtered)
- Cyanide
- Anions
- Total Organic Carbon and Phosphorus

Additionally 1 field blank and 2 duplicate samples were prepared and tested. The duplicates were sampled at stations FC and V6A. 8 sets of water samples (VW1, VW2, R1, VR, FC, P5, Field Blank, and Duplicate 1) were shipped via Air North Cargo on February 25th and another 8 sets (P4, A1, R4, R6, R3, V6A, P1, and Duplicate 2) were shipped on February 27th to Maxxam Analytics in Burnaby, B.C. for analysis.

| Station | Northing | Easting | Station | Northing | Easting |
|---------|----------|---------|---------|----------|---------|
| R1 | 62.3337 | 133.378 | P4 | 62.46132 | 134.16 |
| R3 | 62.38103 | 133.579 | P1 | 62.20786 | 133.356 |
| R4 | 62.4209 | 133.687 | FC | 62.37258 | 133.35 |
| R6 | 62.42107 | 133.685 | VR | 62.28282 | 133.252 |
| A1 | 62.44574 | 134.123 | V6A | 62.28019 | 133.258 |
| P5 | 63.9421 | 135.293 | VW1 | 62.26413 | 133.326 |
| P4 | 62.46132 | 134.16 | VW2 | 62.25506 | 133.319 |

Notable issues:

- Flow measurements were taken at FC and R4 using the salt dilution method but operator (Paul) error resulted in the measurements from FC being erased.

- An overflight of the Rose Creek Diversion and Faro Creek showed 3 areas of open water on Faro Creek downstream of the Faro Creek Diversion and upstream of the confluence of the Faro and Rose Creeks.



Plate 1: Water sampling at station R3



Plate 2: Open Water on Faro Creek upstream of the Haul Road

If you have any questions about this report, please contact Paul Inglis of Access Consulting Group.

Your P.O. #: SFN-09-02
Your Project #: SFN-07-01
Your C.O.C. #: 08310095

Attention: David Petkovich
ACCESS CONSULTING GROUP
#3 Calcite
151 Industrial Road
WHITEHORSE, YT
CANADA Y1A 3C8

Report Date: 2010/03/05

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B011023
Received: 2010/02/26, 13:15

Sample Matrix: Water
Samples Received: 8

| Analyses | Quantity | Date | | Laboratory Method | Analytical Method |
|---|----------|------------|------------|--------------------|----------------------|
| | | Extracted | Analyzed | | |
| Alkalinity - Water | 8 | 2010/02/27 | 2010/02/27 | BRN SOP-00264 R4.0 | Based on SM2320B |
| Chloride by Automated Colourimetry | 8 | N/A | 2010/03/01 | BRN-SOP 00234 R3.0 | Based on EPA 325.2 |
| Cyanide WAD (weak acid dissociable) | 8 | N/A | 2010/03/05 | BRN SOP-00227 R3.0 | Based on SM-4500CN I |
| Carbon (DOC) | 8 | N/A | 2010/03/03 | BRN SOP-00224 R4.0 | Based on M 860-87T |
| Conductance - water | 8 | N/A | 2010/02/27 | BRN SOP-00264 R2.0 | Based on SM-2510B |
| Fluoride - Mining Clients | 8 | N/A | 2010/03/02 | BRN SOP-00225 R1.0 | Based SM - 4500 F C |
| Hardness Total (calculated as CaCO3) | 8 | N/A | 2010/03/04 | | |
| Hardness (calculated as CaCO3) | 8 | N/A | 2010/03/05 | | |
| Ion Balance | 8 | N/A | 2010/03/04 | | |
| Na, K, Ca, Mg, S by CRC ICPMS (diss.) | 8 | N/A | 2010/03/04 | BRN SOP-00206 R7.0 | Based on EPA 200.8 |
| Elements by ICPMS Low Level (dissolved) (1) | 8 | N/A | 2010/03/04 | BRN SOP-00206 R7.0 | Based on EPA 200.8 |
| Elements by ICPMS Low Level (total) (1) | 8 | 2010/03/03 | 2010/03/03 | BRN SOP-00206 R7.0 | Based on EPA 200.8 |
| Na, K, Ca, Mg, S by CRC ICPMS (total) | 8 | 2010/03/03 | 2010/03/03 | BRN SOP-00206 R7.0 | Based on EPA 200.8 |
| Ammonia (N) | 8 | N/A | 2010/02/27 | BRN SOP-00232 R4.0 | Based on USEPA 350.1 |
| Nitrate + Nitrite (N) | 7 | N/A | 2010/03/01 | ING233 Rev.4.4 | Based on EPA 353.2 |
| Nitrate + Nitrite (N) | 1 | N/A | 2010/03/04 | ING233 Rev.4.4 | Based on EPA 353.2 |
| Nitrite (N) by CFA | 8 | N/A | 2010/03/01 | BRN SOP-00233 R1.0 | EPA 353.2 |
| Nitrogen - Nitrate (as N) | 7 | N/A | 2010/03/03 | | |
| Nitrogen - Nitrate (as N) | 1 | N/A | 2010/03/04 | | |
| Filter and HNO3 Preserve for Metals | 8 | N/A | 2010/03/01 | BRN WI-00006 R1.0 | Based on EPA 200.2 |
| pH Water | 8 | N/A | 2010/02/27 | BRN SOP-00264 R4.0 | Based on SM-4500H+B |
| Sulphate by Automated Colourimetry | 8 | N/A | 2010/03/01 | BRN-SOP 00243 R1.0 | Based on EPA 375.4 |
| Total Dissolved Solids (Filt. Residue) | 8 | N/A | 2010/03/03 | BRN SOP 00276 R4.0 | SM 2540C |
| Carbon (Total Organic) | 8 | N/A | 2010/03/03 | BRN SOP-00224 R4.0 | Based on SM-5310C |
| Total Phosphorus | 8 | N/A | 2010/03/01 | BRN SOP-00236 R4.0 | SM 4500 |
| Total Suspended Solids | 8 | N/A | 2010/03/02 | BRN SOP-00277 R5.0 | Based on SM-2540 D |

* Results relate only to the items tested.

(1) SCC/CAEAL

Maxxam Job #: B011023
Report Date: 2010/03/05

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: PI

-2-

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

KIMBERLEY WEBBER, BBY Customer Service
Email: kim.webber@maxxamanalytics.com
Phone# (604) 444-4808 Ext:259

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CALA have approved this reporting process and electronic report format.

Total cover pages: 2

Maxxam Job #: B011023
 Report Date: 2010/03/05

 ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

 Your P.O. #: SFN-09-02
 Sampler Initials: PI

RESULTS OF CHEMICAL ANALYSES OF WATER

| Maxxam ID | | S98126 | S98127 | S98128 | S98129 | | |
|--------------------------------|----------|------------------|------------------|------------------|------------------|--------|----------|
| Sampling Date | | 2010/02/23 17:15 | 2010/02/24 08:05 | 2010/02/24 09:45 | 2010/02/24 10:25 | | |
| | Units | VW1 | R1 | VR | FC | RDL | QC Batch |
| Misc. Inorganics | | | | | | | |
| Fluoride (F) | mg/L | 0.22 | 0.16 | 0.08 | 0.12 | 0.01 | 3781503 |
| Preparation | | | | | | | |
| Filter and HNO3 Preservation | N/A | FIELD | FIELD | FIELD | FIELD | N/A | ONSITE |
| ANIONS | | | | | | | |
| Nitrite (N) | mg/L | <0.005 | 0.006 | <0.005 | <0.005 | 0.005 | 3779850 |
| Calculated Parameters | | | | | | | |
| Ion Balance | N/A | 1.0 | 1.1 | NC | NC | 0.01 | 3775264 |
| Nitrate (N) | mg/L | 0.16 | 0.15 | 0.09 | 0.05 | 0.02 | 3776480 |
| Misc. Inorganics | | | | | | | |
| Weak Acid Dissoc. Cyanide (CN) | mg/L | <0.0005 | <0.0005 | 0.0006 | <0.0005 | 0.0005 | 3792900 |
| Dissolved Organic Carbon (C) | mg/L | 2.1 | 2.1 | 3.1 | 1.1 | 0.5 | 3785361 |
| Alkalinity (Total as CaCO3) | mg/L | 210 | 120 | 41 | 21 | 0.5 | 3776951 |
| Total Organic Carbon (C) | mg/L | 2.0 | 4.1 | 3.7 | 1.2 | 0.5 | 3785292 |
| Alkalinity (PP as CaCO3) | mg/L | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 3776951 |
| Bicarbonate (HCO3) | mg/L | 250 | 150 | 50 | 26 | 0.5 | 3776951 |
| Carbonate (CO3) | mg/L | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 3776951 |
| Hydroxide (OH) | mg/L | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 3776951 |
| Anions | | | | | | | |
| Dissolved Sulphate (SO4) | mg/L | 62 | 30 | 6.1 | 1.4 | 0.5 | 3781163 |
| Dissolved Chloride (Cl) | mg/L | 2.1 | 1.0 | 0.9 | <0.5 | 0.5 | 3781097 |
| Nutrients | | | | | | | |
| Ammonia (N) | mg/L | 0.012 | 0.115 | 0.124 | 0.006 | 0.005 | 3776978 |
| Nitrate plus Nitrite (N) | mg/L | 0.16 | 0.15 | 0.09 | 0.05 | 0.02 | 3779845 |
| Total Phosphorus (P) | mg/L | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 3777651 |
| Physical Properties | | | | | | | |
| Conductivity | uS/cm | 505 | 288 | 103 | 47 | 1 | 3776950 |
| pH | pH Units | 8.0 | 7.9 | 7.4 | 7.3 | | 3776945 |
| Physical Properties | | | | | | | |
| Total Suspended Solids | mg/L | 7 | 110 | 200 | <1 | 1 | 3779650 |
| Total Dissolved Solids | mg/L | 320 | 180 | 78 | 42 | 10 | 3779652 |

N/A = Not Applicable

NC = Non-calculable

RDL = Reportable Detection Limit

Maxxam Job #: B011023
 Report Date: 2010/03/05

 ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

 Your P.O. #: SFN-09-02
 Sampler Initials: PI

RESULTS OF CHEMICAL ANALYSES OF WATER

| Maxxam ID | | S98130 | | S98131 | | S98132 | S98133 | | |
|--------------------------------|----------|---------------------|----------|---------------------|----------|------------|------------|--------|----------|
| Sampling Date | | 2010/02/24 12:40 | | 2010/02/24 14:10 | | 2010/02/24 | 2010/02/24 | | |
| | Units | VW2 | QC Batch | P5 | QC Batch | DUPLICATE | BLANK | RDL | QC Batch |
| Misc. Inorganics | | | | | | | | | |
| Fluoride (F) | mg/L | 0.21 | 3781503 | 0.13 | 3781503 | 0.12 | <0.01 | 0.01 | 3781503 |
| Preparation | | | | | | | | | |
| Filter and HNO3 Preservation | N/A | FIELD | ONSITE | FIELD | ONSITE | FIELD | FIELD | N/A | ONSITE |
| ANIONS | | | | | | | | | |
| Nitrite (N) | mg/L | <0.005 | 3779850 | <0.005 | 3779850 | <0.005 | <0.005 | 0.005 | 3779850 |
| Calculated Parameters | | | | | | | | | |
| Ion Balance | N/A | 0.98 | 3775264 | 1.1 | 3775264 | NC | NC | 0.01 | 3775264 |
| Nitrate (N) | mg/L | 0.32 | 3776480 | 0.12 | 3776480 | 0.06 | <0.02 | 0.02 | 3776480 |
| Misc. Inorganics | | | | | | | | | |
| Weak Acid Dissoc. Cyanide (CN) | mg/L | <0.0005 | 3792900 | <0.0005 | 3792900 | <0.0005 | <0.0005 | 0.0005 | 3792900 |
| Dissolved Organic Carbon (C) | mg/L | 1.6 | 3785361 | 1.7 | 3785361 | 0.5 | <0.5 | 0.5 | 3785361 |
| Alkalinity (Total as CaCO3) | mg/L | 320 | 3776951 | 140 | 3776951 | 23 | 2.0 | 0.5 | 3776951 |
| Total Organic Carbon (C) | mg/L | 1.9 | 3785292 | 1.2 | 3785292 | 0.6 | <0.5 | 0.5 | 3785292 |
| Alkalinity (PP as CaCO3) | mg/L | <0.5 | 3776951 | <0.5 | 3776951 | <0.5 | <0.5 | 0.5 | 3776951 |
| Bicarbonate (HCO3) | mg/L | 390 | 3776951 | 180 | 3776951 | 28 | 2.4 | 0.5 | 3776951 |
| Carbonate (CO3) | mg/L | <0.5 | 3776951 | <0.5 | 3776951 | <0.5 | <0.5 | 0.5 | 3776951 |
| Hydroxide (OH) | mg/L | <0.5 | 3776951 | <0.5 | 3776951 | <0.5 | <0.5 | 0.5 | 3776951 |
| Anions | | | | | | | | | |
| Dissolved Sulphate (SO4) | mg/L | 120 | 3781163 | 59 | 3781163 | 1.5 | <0.5 | 0.5 | 3781163 |
| Dissolved Chloride (Cl) | mg/L | <0.5 | 3781097 | <0.5 | 3781097 | <0.5 | <0.5 | 0.5 | 3781097 |
| Nutrients | | | | | | | | | |
| Ammonia (N) | mg/L | 0.010 | 3776978 | 0.011 | 3776978 | 0.009 | 0.010 | 0.005 | 3776978 |
| Nitrate plus Nitrite (N) | mg/L | 0.32 | 3779845 | 0.12 | 3788199 | 0.06 | <0.02 | 0.02 | 3779845 |
| Total Phosphorus (P) | mg/L | <0.005 | 3777651 | <0.005 | 3777651 | <0.005 | <0.005 | 0.005 | 3777651 |
| Physical Properties | | | | | | | | | |
| Conductivity | uS/cm | 760 | 3776950 | 404 | 3776950 | 48 | 2 | 1 | 3776950 |
| pH | pH Units | 8.1 | 3776945 | 7.9 | 3776945 | 7.3 | 6.3 | | 3776945 |
| Physical Properties | | | | | | | | | |
| Total Suspended Solids | mg/L | 1 | 3779650 | 2 | 3779650 | 1 | <1 | 1 | 3779650 |
| Total Dissolved Solids | mg/L | 530 | 3779652 | 280 | 3783453 | 44 | <10 | 10 | 3783453 |

N/A = Not Applicable

NC = Non-calculable

RDL = Reportable Detection Limit

Maxxam Job #: B011023
 Report Date: 2010/03/05

ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
 Sampler Initials: PI

LOW LEVEL DISSOLVED METALS - WATER (WATER)

| Maxxam ID | | S98126 | S98127 | S98128 | S98129 | S98130 | S98131 | S98132 | S98133 | | |
|----------------------------|--------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------------|--------------|------------|-----------------|
| Sampling Date | | 2010/02/23 17:15 | 2010/02/24 08:05 | 2010/02/24 09:45 | 2010/02/24 10:25 | 2010/02/24 12:40 | 2010/02/24 14:10 | 2010/02/24 | 2010/02/24 | | |
| | Units | VW1 | R1 | VR | FC | VW2 | P5 | DUPLICATE | BLANK | RDL | QC Batch |
| Misc. Inorganics | | | | | | | | | | | |
| Dissolved Hardness (CaCO3) | mg/L | 274 | 154 | 43.9 | 18.4 | 431 | 211 | 17.9 | <0.5 | 0.5 | 3773705 |

RDL = Reportable Detection Limit

Maxxam Job #: B011023
 Report Date: 2010/03/05

 ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

 Your P.O. #: SFN-09-02
 Sampler Initials: PI

LOW LEVEL DISSOLVED METALS - WATER (WATER)

| Maxxam ID | | S98126 | S98127 | S98128 | S98129 | S98130 | S98131 | S98132 | S98133 | | |
|----------------------------------|-------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------|----------------------|-------|----------|
| Sampling Date | | 2010/02/23 17:15 | 2010/02/24 08:05 | 2010/02/24 09:45 | 2010/02/24 10:25 | 2010/02/24 12:40 | 2010/02/24 14:10 | 2010/02/24 | 2010/02/24 | | |
| | Units | VW1 | R1 | VR | FC | VW2 | P5 | DUPLICATE | BLANK | RDL | QC Batch |
| Dissolved Metals by ICPMS | | | | | | | | | | | |
| Dissolved Aluminium (Al) | ug/L | 2.4 | 4.4 | 13.9 | 10.9 | 1.4 | 4.4 | 8.4 | 3.9 ⁽¹⁾ | 0.2 | 3784637 |
| Dissolved Antimony (Sb) | ug/L | 0.06 | 0.08 | 0.11 | 0.02 | 0.33 | 0.14 | 0.02 | <0.02 | 0.02 | 3784637 |
| Dissolved Arsenic (As) | ug/L | 0.41 | 0.44 | 0.20 | 0.06 | 0.31 | 0.32 | 0.05 | <0.02 | 0.02 | 3784637 |
| Dissolved Barium (Ba) | ug/L | 79.6 | 69.8 | 37.1 | 17.9 | 114 | 84.6 | 17.5 | 0.71 ⁽¹⁾ | 0.02 | 3784637 |
| Dissolved Beryllium (Be) | ug/L | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 3784637 |
| Dissolved Bismuth (Bi) | ug/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 3784637 |
| Dissolved Boron (B) | ug/L | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | 50 | 3784637 |
| Dissolved Cadmium (Cd) | ug/L | 0.010 | 0.018 | 0.023 | 0.008 | 0.162 | 0.113 | 0.007 | <0.005 | 0.005 | 3784637 |
| Dissolved Chromium (Cr) | ug/L | <0.1 | <0.1 | 0.2 | <0.1 | 0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 3784637 |
| Dissolved Cobalt (Co) | ug/L | 0.082 | 0.213 | 0.027 | 0.008 | 0.007 | 0.012 | 0.013 | <0.005 | 0.005 | 3784637 |
| Dissolved Copper (Cu) | ug/L | 0.42 | 1.01 | 3.06 | 0.36 | 0.32 | 0.51 | 0.26 | 0.37 ⁽¹⁾ | 0.05 | 3784637 |
| Dissolved Iron (Fe) | ug/L | 30 | 380 | 18 | 9 | 1 | 13 | 6 | 3 | 1 | 3784637 |
| Dissolved Lead (Pb) | ug/L | 0.033 | 0.816 | 0.350 | 0.296 | 0.046 | 0.035 | 0.243 | 0.123 ⁽¹⁾ | 0.005 | 3784637 |
| Dissolved Lithium (Li) | ug/L | 3.6 | 2.5 | <0.5 | 2.3 | 4.0 | 4.3 | 2.2 | <0.5 | 0.5 | 3784637 |
| Dissolved Manganese (Mn) | ug/L | 79.1 | 366 | 1.90 | 0.46 | <0.05 | 7.22 | 0.27 | 0.37 ⁽¹⁾ | 0.05 | 3784637 |
| Dissolved Molybdenum (Mo) | ug/L | 0.67 | 0.27 | 0.16 | 0.09 | 3.78 | 1.12 | 0.10 | <0.05 | 0.05 | 3784637 |
| Dissolved Nickel (Ni) | ug/L | 0.47 | 0.57 | 0.36 | 0.18 | 1.51 | 3.25 | 0.17 | 0.04 | 0.02 | 3784637 |
| Dissolved Selenium (Se) | ug/L | 0.40 | 0.22 | 0.07 | <0.04 | 4.28 | 1.25 | <0.04 | <0.04 | 0.04 | 3784637 |
| Dissolved Silicon (Si) | ug/L | 5090 | 4870 | 4990 | 7330 | 4410 | 3810 | 7180 | <100 | 100 | 3784637 |
| Dissolved Silver (Ag) | ug/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 3784637 |
| Dissolved Strontium (Sr) | ug/L | 306 | 237 | 65.8 | 31.8 | 372 | 243 | 31.3 | 0.17 | 0.05 | 3784637 |
| Dissolved Thallium (Tl) | ug/L | <0.002 | 0.002 | <0.002 | <0.002 | 0.002 | 0.004 | <0.002 | <0.002 | 0.002 | 3784637 |
| Dissolved Tin (Sn) | ug/L | <0.01 | 0.02 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 3784637 |
| Dissolved Titanium (Ti) | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 3784637 |
| Dissolved Uranium (U) | ug/L | 3.84 | 3.07 | 0.493 | 0.060 | 8.93 | 1.65 | 0.059 | 0.003 | 0.002 | 3784637 |
| Dissolved Vanadium (V) | ug/L | <0.2 | <0.2 | <0.2 | <0.2 | 1.1 | <0.2 | <0.2 | <0.2 | 0.2 | 3784637 |
| Dissolved Zinc (Zn) | ug/L | 2.9 | 5.0 | 11.0 | 1.7 | 8.4 | 13.6 | 1.4 | 1.6 ⁽¹⁾ | 0.1 | 3784637 |
| Dissolved Zirconium (Zr) | ug/L | <0.1 | <0.1 | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 3784637 |
| Dissolved Calcium (Ca) | mg/L | 71.4 | 48.1 | 13.3 | 5.47 | 108 | 56.2 | 5.32 | 0.12 | 0.05 | 3789632 |
| Dissolved Magnesium (Mg) | mg/L | 23.3 | 8.29 | 2.62 | 1.16 | 39.3 | 17.3 | 1.12 | <0.05 | 0.05 | 3789632 |
| Dissolved Potassium (K) | mg/L | 1.08 | 1.49 | 0.78 | 0.20 | 1.12 | 1.01 | 0.19 | <0.05 | 0.05 | 3789632 |
| Dissolved Sodium (Na) | mg/L | 4.78 | 3.34 | 2.35 | 2.33 | 2.62 | 3.05 | 2.31 | 0.14 | 0.05 | 3789632 |
| Dissolved Sulphur (S) | mg/L | 26 | 11 | <3 | <3 | 44 | 26 | <3 | <3 | 3 | 3789632 |

RDL = Reportable Detection Limit

(1) - Dissolved greater than total. Reanalysis yields similar results

Maxxam Job #: B011023
 Report Date: 2010/03/05

ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
 Sampler Initials: PI

LOW LEVEL TOTAL METALS - WATER (WATER)

| Maxxam ID | | S98126 | S98127 | S98128 | S98129 | S98130 | S98131 | S98132 | S98133 | | |
|------------------------------|--------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------------|--------------|------------|-----------------|
| Sampling Date | | 2010/02/23 17:15 | 2010/02/24 08:05 | 2010/02/24 09:45 | 2010/02/24 10:25 | 2010/02/24 12:40 | 2010/02/24 14:10 | 2010/02/24 | 2010/02/24 | | |
| | Units | VW1 | R1 | VR | FC | VW2 | P5 | DUPLICATE | BLANK | RDL | QC Batch |
| Calculated Parameters | | | | | | | | | | | |
| Total Hardness (CaCO3) | mg/L | 261 | 152 | 44.8 | 17.6 | 436 | 205 | 18.5 | 1.2 | 0.5 | 3773710 |

RDL = Reportable Detection Limit

Maxxam Job #: B011023
Report Date: 2010/03/05

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: PI

LOW LEVEL TOTAL METALS - WATER (WATER)

| Maxxam ID | | S98126 | S98127 | S98128 | S98129 | S98130 | S98131 | S98132 | S98133 | | |
|------------------------------|-------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------|------------|-------|----------|
| Sampling Date | | 2010/02/23 17:15 | 2010/02/24 08:05 | 2010/02/24 09:45 | 2010/02/24 10:25 | 2010/02/24 12:40 | 2010/02/24 14:10 | 2010/02/24 | 2010/02/24 | | |
| | Units | VW1 | R1 | VR | FC | VW2 | P5 | DUPLICATE | BLANK | RDL | QC Batch |
| Total Metals by ICPMS | | | | | | | | | | | |
| Total Aluminum (Al) | ug/L | 35.9 | 274 | 1180 | 34.8 | 6.2 | 17.2 | 29.1 | 1.2 | 0.2 | 3784571 |
| Total Antimony (Sb) | ug/L | 0.05 | 0.09 | 0.21 | <0.02 | 0.31 | 0.13 | 0.07 | <0.02 | 0.02 | 3784571 |
| Total Arsenic (As) | ug/L | 0.51 | 2.94 | 2.25 | 0.09 | 0.35 | 0.36 | 0.09 | <0.02 | 0.02 | 3784571 |
| Total Barium (Ba) | ug/L | 78.9 | 101 | 91.8 | 18.1 | 113 | 83.0 | 18.1 | 0.06 | 0.02 | 3784571 |
| Total Beryllium (Be) | ug/L | <0.01 | 0.05 | 0.39 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 3784571 |
| Total Bismuth (Bi) | ug/L | <0.005 | 0.012 | 0.014 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 3784571 |
| Total Boron (B) | ug/L | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | 50 | 3784571 |
| Total Cadmium (Cd) | ug/L | 0.016 | 0.081 | 0.348 | 0.008 | 0.155 | 0.124 | 0.006 | <0.005 | 0.005 | 3784571 |
| Total Chromium (Cr) | ug/L | <0.1 | 0.8 | 0.7 | <0.1 | 0.2 | 0.2 | <0.1 | <0.1 | 0.1 | 3784571 |
| Total Cobalt (Co) | ug/L | 0.110 | 0.668 | 0.869 | 0.028 | 0.015 | 0.029 | 0.020 | <0.005 | 0.005 | 3784571 |
| Total Copper (Cu) | ug/L | 0.56 | 2.90 | 7.06 | 0.31 | 0.52 | 0.63 | 0.31 | 0.10 | 0.05 | 3784571 |
| Total Iron (Fe) | ug/L | 115 | 5170 | 1310 | 44 | 12 | 64 | 38 | 1 | 1 | 3784571 |
| Total Lead (Pb) | ug/L | 0.222 | 3.02 | 12.5 | 0.251 | 0.214 | 0.146 | 2.11 | 0.073 | 0.005 | 3784571 |
| Total Lithium (Li) | ug/L | 3.7 | 2.7 | 1.4 | 2.3 | 3.9 | 4.1 | 2.4 | <0.5 | 0.5 | 3784571 |
| Total Manganese (Mn) | ug/L | 82.0 | 396 | 212 | 2.57 | 0.48 | 10.2 | 1.76 | 0.08 | 0.05 | 3784571 |
| Total Molybdenum (Mo) | ug/L | 0.62 | 0.26 | 0.08 | 0.09 | 3.75 | 1.10 | 0.08 | <0.05 | 0.05 | 3784571 |
| Total Nickel (Ni) | ug/L | 0.58 | 2.26 | 1.60 | 0.19 | 1.59 | 3.34 | 0.19 | 0.02 | 0.02 | 3784571 |
| Total Selenium (Se) | ug/L | 0.40 | 0.24 | 0.09 | <0.04 | 4.39 | 1.29 | <0.04 | <0.04 | 0.04 | 3784571 |
| Total Silicon (Si) | ug/L | 5060 | 5410 | 5120 | 7010 | 4290 | 3520 | 7400 | <100 | 100 | 3784571 |
| Total Silver (Ag) | ug/L | <0.005 | 0.008 | 0.026 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 3784571 |
| Total Strontium (Sr) | ug/L | 296 | 237 | 68.5 | 30.4 | 357 | 234 | 31.4 | 1.22 | 0.05 | 3784571 |
| Total Thallium (Tl) | ug/L | <0.002 | 0.009 | 0.033 | <0.002 | <0.002 | 0.004 | <0.002 | <0.002 | 0.002 | 3784571 |
| Total Tin (Sn) | ug/L | <0.01 | 0.06 | 0.04 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 3784571 |
| Total Titanium (Ti) | ug/L | 0.6 | 11.2 | 14.7 | 0.7 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 3784571 |
| Total Uranium (U) | ug/L | 3.70 | 3.14 | 5.59 | 0.083 | 8.73 | 1.64 | 0.101 | <0.002 | 0.002 | 3784571 |
| Total Vanadium (V) | ug/L | <0.2 | 0.9 | 1.3 | <0.2 | 1.1 | <0.2 | <0.2 | <0.2 | 0.2 | 3784571 |
| Total Zinc (Zn) | ug/L | 3.3 | 17.9 | 30.9 | 1.6 | 9.1 | 14.3 | 1.5 | 1.1 | 0.1 | 3784571 |
| Total Zirconium (Zr) | ug/L | <0.1 | 0.3 | 0.4 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 3784571 |
| Total Calcium (Ca) | mg/L | 68.1 | 47.8 | 13.8 | 5.22 | 109 | 53.7 | 5.43 | 0.29 | 0.05 | 3786024 |
| Total Magnesium (Mg) | mg/L | 22.1 | 7.87 | 2.52 | 1.11 | 39.9 | 17.3 | 1.19 | 0.13 | 0.05 | 3786024 |
| Total Potassium (K) | mg/L | 1.05 | 1.46 | 0.79 | 0.19 | 1.15 | 0.97 | 0.19 | <0.05 | 0.05 | 3786024 |
| Total Sodium (Na) | mg/L | 4.48 | 3.12 | 2.18 | 2.22 | 2.68 | 3.01 | 2.18 | <0.05 | 0.05 | 3786024 |
| Total Sulphur (S) | mg/L | 26 | 11 | <3 | <3 | 48 | 25 | <3 | <3 | 3 | 3786024 |

RDL = Reportable Detection Limit

Maxxam Job #: B011023
Report Date: 2010/03/05

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: PI

| | |
|-----------|-------|
| Package 1 | 2.0°C |
|-----------|-------|

Each temperature is the average of up to three cooler temperatures taken at receipt

General Comments

Sample S98128-: Ion Balance: NC = Not Calculable due to low ion sum [< 3 meq/L].

Sample S98129-: Ion Balance: NC = Not Calculable due to low ion sum [< 3 meq/L].

Sample S98132-: Ion Balance: NC = Not Calculable due to low ion sum [< 3 meq/L].

Sample S98133-: Ion Balance: NC = Not Calculable due to low ion sum [< 3 meq/L].

Maxxam Job #: B011023
Report Date: 2010/03/05

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: PI

QUALITY ASSURANCE REPORT

| QC Batch | Parameter | Date | Matrix Spike | | Spiked Blank | | Method Blank | | RPD | |
|----------|-----------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | Units | Value (%) | QC Limits |
| 3776950 | Conductivity | 2010/02/27 | | | 101 | 80 - 120 | <1 | uS/cm | NC | 20 |
| 3776951 | Alkalinity (Total as CaCO3) | 2010/02/27 | NC | 80 - 120 | 102 | 80 - 120 | <0.5 | mg/L | NC | 20 |
| 3776951 | Alkalinity (PP as CaCO3) | 2010/02/27 | | | | | <0.5 | mg/L | NC | 20 |
| 3776951 | Bicarbonate (HCO3) | 2010/02/27 | | | | | <0.5 | mg/L | NC | 20 |
| 3776951 | Carbonate (CO3) | 2010/02/27 | | | | | <0.5 | mg/L | NC | 20 |
| 3776951 | Hydroxide (OH) | 2010/02/27 | | | | | <0.5 | mg/L | NC | 20 |
| 3776978 | Ammonia (N) | 2010/02/27 | NC | 80 - 120 | 94 | 80 - 120 | <0.005 | mg/L | NC | 20 |
| 3777651 | Total Phosphorus (P) | 2010/03/01 | 102 | 80 - 120 | 94 | 80 - 120 | <0.005 | mg/L | NC | 20 |
| 3779650 | Total Suspended Solids | 2010/03/02 | | | 103 | 80 - 120 | <1 | mg/L | | |
| 3779652 | Total Dissolved Solids | 2010/03/03 | 106 | 80 - 120 | 94 | 80 - 120 | <10 | mg/L | 3.8 | 20 |
| 3779845 | Nitrate plus Nitrite (N) | 2010/03/01 | 99 | 80 - 120 | 103 | 80 - 120 | <0.02 | mg/L | NC | 25 |
| 3779850 | Nitrite (N) | 2010/03/01 | 99 | 80 - 120 | 105 | 80 - 120 | <0.005 | mg/L | NC | 20 |
| 3781097 | Dissolved Chloride (Cl) | 2010/03/01 | 112 | 80 - 120 | 101 | 80 - 120 | <0.5 | mg/L | NC | 20 |
| 3781163 | Dissolved Sulphate (SO4) | 2010/03/01 | 101 | 80 - 120 | 99 | 80 - 120 | <0.5 | mg/L | 0.9 | 20 |
| 3781503 | Fluoride (F) | 2010/03/02 | 98 | 80 - 120 | 94 | 80 - 120 | <0.01 | mg/L | 0.8 | 20 |
| 3783453 | Total Dissolved Solids | 2010/03/03 | 116 | 80 - 120 | 92 | 80 - 120 | <10 | mg/L | NC | 20 |
| 3784571 | Total Arsenic (As) | 2010/03/03 | 97 | 80 - 120 | 94 | 80 - 120 | <0.02 | ug/L | 1.1 | 20 |
| 3784571 | Total Beryllium (Be) | 2010/03/03 | 100 | 80 - 120 | 92 | 80 - 120 | <0.01 | ug/L | NC | 20 |
| 3784571 | Total Cadmium (Cd) | 2010/03/03 | 101 | 80 - 120 | 95 | 80 - 120 | <0.005 | ug/L | NC | 20 |
| 3784571 | Total Chromium (Cr) | 2010/03/03 | 96 | 80 - 120 | 96 | 80 - 120 | <0.1 | ug/L | NC | 20 |
| 3784571 | Total Cobalt (Co) | 2010/03/03 | 94 | 80 - 120 | 95 | 80 - 120 | <0.005 | ug/L | NC | 20 |
| 3784571 | Total Copper (Cu) | 2010/03/03 | 98 | 80 - 120 | 98 | 80 - 120 | <0.05 | ug/L | 2.2 | 20 |
| 3784571 | Total Lead (Pb) | 2010/03/03 | 102 | 80 - 120 | 100 | 80 - 120 | <0.005 | ug/L | NC | 20 |
| 3784571 | Total Lithium (Li) | 2010/03/03 | 102 | 80 - 120 | 99 | 80 - 120 | <0.5 | ug/L | NC | 20 |
| 3784571 | Total Nickel (Ni) | 2010/03/03 | 97 | 80 - 120 | 95 | 80 - 120 | <0.02 | ug/L | NC | 20 |
| 3784571 | Total Selenium (Se) | 2010/03/03 | 104 | 80 - 120 | 99 | 80 - 120 | <0.04 | ug/L | NC | 20 |
| 3784571 | Total Uranium (U) | 2010/03/03 | 100 | 80 - 120 | 102 | 80 - 120 | <0.002 | ug/L | NC | 20 |
| 3784571 | Total Vanadium (V) | 2010/03/03 | 96 | 80 - 120 | 94 | 80 - 120 | <0.2 | ug/L | NC | 20 |
| 3784571 | Total Zinc (Zn) | 2010/03/03 | 120 | 80 - 120 | 98 | 80 - 120 | <0.1 | ug/L | NC | 20 |
| 3784571 | Total Aluminum (Al) | 2010/03/03 | | | | | <0.2 | ug/L | 0.4 | 20 |
| 3784571 | Total Antimony (Sb) | 2010/03/03 | | | | | <0.02 | ug/L | NC | 20 |
| 3784571 | Total Barium (Ba) | 2010/03/03 | | | | | <0.02 | ug/L | 0.3 | 20 |
| 3784571 | Total Bismuth (Bi) | 2010/03/03 | | | | | <0.005 | ug/L | NC | 20 |
| 3784571 | Total Boron (B) | 2010/03/03 | | | | | <50 | ug/L | NC | 20 |
| 3784571 | Total Iron (Fe) | 2010/03/03 | | | | | <1 | ug/L | | |
| 3784571 | Total Manganese (Mn) | 2010/03/03 | | | | | <0.05 | ug/L | 2.5 | 20 |
| 3784571 | Total Molybdenum (Mo) | 2010/03/03 | | | | | <0.05 | ug/L | NC | 20 |
| 3784571 | Total Silicon (Si) | 2010/03/03 | | | | | <100 | ug/L | | |
| 3784571 | Total Silver (Ag) | 2010/03/03 | | | | | <0.005 | ug/L | NC | 20 |

Maxxam Job #: B011023
Report Date: 2010/03/05

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: PI

QUALITY ASSURANCE REPORT

| QC Batch | Parameter | Date | Matrix Spike | | Spiked Blank | | Method Blank | | RPD | |
|----------|------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | Units | Value (%) | QC Limits |
| 3784571 | Total Strontium (Sr) | 2010/03/03 | | | | | <0.05 | ug/L | 1.4 | 20 |
| 3784571 | Total Thallium (Tl) | 2010/03/03 | | | | | <0.002 | ug/L | NC | 20 |
| 3784571 | Total Tin (Sn) | 2010/03/03 | | | | | <0.01 | ug/L | NC | 20 |
| 3784571 | Total Titanium (Ti) | 2010/03/03 | | | | | <0.5 | ug/L | | |
| 3784571 | Total Zirconium (Zr) | 2010/03/03 | | | | | <0.1 | ug/L | | |
| 3784637 | Dissolved Arsenic (As) | 2010/03/04 | 94 | 80 - 120 | 91 | 80 - 120 | <0.02 | ug/L | 2.0 | 20 |
| 3784637 | Dissolved Beryllium (Be) | 2010/03/04 | 97 | 80 - 120 | 93 | 80 - 120 | <0.01 | ug/L | NC | 20 |
| 3784637 | Dissolved Cadmium (Cd) | 2010/03/04 | 97 | 80 - 120 | 96 | 80 - 120 | <0.005 | ug/L | NC | 20 |
| 3784637 | Dissolved Chromium (Cr) | 2010/03/04 | 94 | 80 - 120 | 95 | 80 - 120 | <0.1 | ug/L | NC | 20 |
| 3784637 | Dissolved Cobalt (Co) | 2010/03/04 | 90 | 80 - 120 | 95 | 80 - 120 | <0.005 | ug/L | 9.2 | 20 |
| 3784637 | Dissolved Copper (Cu) | 2010/03/04 | 88 | 80 - 120 | 98 | 80 - 120 | <0.05 | ug/L | 3.7 | 20 |
| 3784637 | Dissolved Lead (Pb) | 2010/03/04 | 94 | 80 - 120 | 102 | 80 - 120 | <0.005 | ug/L | 8.9 | 20 |
| 3784637 | Dissolved Lithium (Li) | 2010/03/04 | 99 | 80 - 120 | 97 | 80 - 120 | <0.5 | ug/L | 4.5 | 20 |
| 3784637 | Dissolved Nickel (Ni) | 2010/03/04 | 91 | 80 - 120 | 96 | 80 - 120 | <0.02 | ug/L | 4.3 | 20 |
| 3784637 | Dissolved Selenium (Se) | 2010/03/04 | 101 | 80 - 120 | 99 | 80 - 120 | <0.04 | ug/L | 3.9 | 20 |
| 3784637 | Dissolved Uranium (U) | 2010/03/04 | 96 | 80 - 120 | 104 | 80 - 120 | <0.002 | ug/L | 0.2 | 20 |
| 3784637 | Dissolved Vanadium (V) | 2010/03/04 | 96 | 80 - 120 | 94 | 80 - 120 | <0.2 | ug/L | NC | 20 |
| 3784637 | Dissolved Zinc (Zn) | 2010/03/04 | 94 | 80 - 120 | 99 | 80 - 120 | <0.1 | ug/L | 7.1 | 20 |
| 3784637 | Dissolved Aluminum (Al) | 2010/03/04 | | | | | <0.2 | ug/L | 4.4 | 20 |
| 3784637 | Dissolved Antimony (Sb) | 2010/03/04 | | | | | <0.02 | ug/L | NC | 20 |
| 3784637 | Dissolved Barium (Ba) | 2010/03/04 | | | | | <0.02 | ug/L | 1.7 | 20 |
| 3784637 | Dissolved Bismuth (Bi) | 2010/03/04 | | | | | <0.005 | ug/L | NC | 20 |
| 3784637 | Dissolved Boron (B) | 2010/03/04 | | | | | <50 | ug/L | NC | 20 |
| 3784637 | Dissolved Iron (Fe) | 2010/03/04 | | | | | <1 | ug/L | 1.2 | 20 |
| 3784637 | Dissolved Manganese (Mn) | 2010/03/04 | | | | | <0.05 | ug/L | 0.8 | 20 |
| 3784637 | Dissolved Molybdenum (Mo) | 2010/03/04 | | | | | <0.05 | ug/L | 1.9 | 20 |
| 3784637 | Dissolved Silicon (Si) | 2010/03/04 | | | | | <100 | ug/L | 0.7 | 20 |
| 3784637 | Dissolved Silver (Ag) | 2010/03/04 | | | | | <0.005 | ug/L | NC | 20 |
| 3784637 | Dissolved Strontium (Sr) | 2010/03/04 | | | | | <0.05 | ug/L | 0.9 | 20 |
| 3784637 | Dissolved Thallium (Tl) | 2010/03/04 | | | | | <0.002 | ug/L | NC | 20 |
| 3784637 | Dissolved Tin (Sn) | 2010/03/04 | | | | | <0.01 | ug/L | NC | 20 |
| 3784637 | Dissolved Titanium (Ti) | 2010/03/04 | | | | | <0.5 | ug/L | NC | 20 |
| 3784637 | Dissolved Zirconium (Zr) | 2010/03/04 | | | | | <0.1 | ug/L | NC | 20 |
| 3785292 | Total Organic Carbon (C) | 2010/03/03 | 95 | 80 - 120 | 100 | 80 - 120 | <0.5 | mg/L | NC | 20 |
| 3785361 | Dissolved Organic Carbon (C) | 2010/03/03 | 91 | 80 - 120 | 94 | 80 - 120 | <0.5 | mg/L | NC | 20 |
| 3786024 | Total Calcium (Ca) | 2010/03/03 | | | | | <0.05 | mg/L | | |
| 3786024 | Total Magnesium (Mg) | 2010/03/03 | | | | | <0.05 | mg/L | 1.7 | 20 |
| 3786024 | Total Potassium (K) | 2010/03/03 | | | | | <0.05 | mg/L | | |
| 3786024 | Total Sodium (Na) | 2010/03/03 | | | | | <0.05 | mg/L | | |

Maxxam Job #: B011023
Report Date: 2010/03/05

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: PI

QUALITY ASSURANCE REPORT

| QC Batch | Parameter | Date | Matrix Spike | | Spiked Blank | | Method Blank | | RPD | |
|----------|--------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | Units | Value (%) | QC Limits |
| 3786024 | Total Sulphur (S) | 2010/03/03 | | | | | <3 | mg/L | | |
| 3788199 | Nitrate plus Nitrite (N) | 2010/03/04 | 97 | 80 - 120 | 100 | 80 - 120 | <0.02 | mg/L | NC | 25 |
| 3789632 | Dissolved Calcium (Ca) | 2010/03/04 | | | | | <0.05 | mg/L | 1.5 | 20 |
| 3789632 | Dissolved Magnesium (Mg) | 2010/03/04 | | | | | <0.05 | mg/L | 0.8 | 20 |
| 3789632 | Dissolved Potassium (K) | 2010/03/04 | | | | | <0.05 | mg/L | 2.1 | 20 |
| 3789632 | Dissolved Sodium (Na) | 2010/03/04 | | | | | <0.05 | mg/L | 1 | 20 |
| 3789632 | Dissolved Sulphur (S) | 2010/03/04 | | | | | <3 | mg/L | 1.0 | 20 |
| 3792900 | Weak Acid Dissoc. Cyanide (CN) | 2010/03/05 | 100 | 80 - 120 | 101 | 80 - 120 | <0.0005 | mg/L | NC | 20 |

N/A = Not Applicable

RPD = Relative Percent Difference

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.

NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

08310095

| | | |
|--------------------------------|------------------|-------|
| MAXXAM JOB # B011023 | ANALYSIS REQUEST | COC # |
|--------------------------------|------------------|-------|

| | |
|--|---|
| COMPANY NAME: Access Consulting Group | CLIENT PROJECT NO.: SFN-07-01 |
| COMPANY ADDRESS: #3 Calcite Business Center 151 Industrial Rd Whitehorse, YT Y1A 2V3 | TEL.: (867) 668-6463 |
| SAMPLER NAME (PRINT): Paul Inglis | E-MAIL: paul@accessconsulting.ca david@accessconsulting.ca |
| PROJECT MANAGER: David Petkovich | FAX: (867) 668-6680 |
| LABORATORY CONTACT: Kim Webber | |

| FIELD SAMPLE ID | MATRIX | SAMPLING | | | | | # CONTAINERS | General (Alk, EC, pH) | TSS (TDS) | Total Metals (Low Level) | Dissolved Metals (Low Level) | DOC | Anions - (Cl, F, NH3, NO2, NO3, SO4) | Cyanide | Phosphorus, TOC |
|-----------------|--------|-------------|---------------|----------------|------|-------|--------------|-----------------------|-----------|--------------------------|------------------------------|-----|--------------------------------------|---------|-----------------|
| | | GROUNDWATER | SURFACE WATER | DRINKING WATER | SOIL | OTHER | | | | | | | | | |
| 1 WW1 | | | | | | | | | | | | | | | |
| 2 R1 | | X | | | | | | | | | | | | | |
| 3 VR | | X | | | | | | | | | | | | | |
| 4 FC | | X | | | | | | | | | | | | | |
| 5 VW2 | | X | | | | | | | | | | | | | |
| 6 P5 | | X | | | | | | | | | | | | | |
| 7 Duplicate | | X | | | | | | | | | | | | | |
| 8 Blank | | X | | | | | | | | | | | | | |
| 9 | | X | | | | | | | | | | | | | |
| 10 | | X | | | | | | | | | | | | | |
| 11 | | X | | | | | | | | | | | | | |
| 12 | | X | | | | | | | | | | | | | |

| | | | | | | |
|---|--|---|------------------------------------|---------------------------------|---------------------------|---------------|
| TAT (Turnaround Time) LESS THAN 5 DAY TAT MUST HAVE PRIOR APPROVAL | PO NUMBER OR QUOTE NUMBER: SFN-09-02 | SPECIAL DETECTION LIMITS / CONTAMINANT TYPE: AS per previous SFN-07-01/ SFN-09-02 sampling | COMET CSR AB TIER 1 OTHER | ARRIVAL TEMPERATURE °C: 22.2 | LAB USE ONLY DUE DATE: | LOG IN CHECK: |
| * Some exceptions apply - please contact laboratory | ACCOUNTING CONTACT: Colette MacMillan | SPECIAL REPORTING OR BILLING INSTRUCTIONS: | # JARS USED: | | | |
| STANDARD 5 BUSINESS DAYS RUSH 3 BUSINESS DAYS RUSH 2 BUSINESS DAYS URGENT 1 BUSINESS DAY | RELINQUISHED BY SAMPLER: Paul Inglis | DATE: DD/MM/YY 25/02/2010 | TIME: 8:30 | RECEIVED BY: | | |
| OTHER BUSINESS DAYS | RELINQUISHED BY: | DATE: DD/MM/YY | TIME: | RECEIVED BY: | | |
| CUSTODY RECORD | RELINQUISHED BY: | DATE: DD/MM/YY 26/2/10 | TIME: 13:15 | RECEIVED BY LABORATORY: h | | |

Your P.O. #: SFN-09-02
Your Project #: SFN-07-01
Your C.O.C. #: 08310134

Attention: David Petkovich
ACCESS CONSULTING GROUP
#3 Calcite
151 Industrial Road
WHITEHORSE, YT
CANADA Y1A 3C8

Report Date: 2010/03/08

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B011427
Received: 2010/03/01, 14:00

Sample Matrix: Water
Samples Received: 8

| Analyses | Quantity | Date | Date | Laboratory Method | Analytical Method |
|---|----------|------------|------------|--------------------|----------------------|
| | | Extracted | Analyzed | | |
| Alkalinity - Water | 8 | 2010/03/03 | 2010/03/03 | BRN SOP-00264 R4.0 | Based on SM2320B |
| Chloride by Automated Colourimetry | 8 | N/A | 2010/03/03 | BRN-SOP 00234 R3.0 | Based on EPA 325.2 |
| Cyanide WAD (weak acid dissociable) | 8 | N/A | 2010/03/05 | BRN SOP-00227 R3.0 | Based on SM-4500CN I |
| Carbon (DOC) | 8 | N/A | 2010/03/03 | BRN SOP-00224 R4.0 | Based on M 860-87T |
| Conductance - water | 8 | N/A | 2010/03/03 | BRN SOP-00264 R2.0 | Based on SM-2510B |
| Fluoride - Mining Clients | 8 | N/A | 2010/03/02 | BRN SOP-00225 R1.0 | Based SM - 4500 F C |
| Hardness Total (calculated as CaCO3) | 8 | N/A | 2010/03/08 | | |
| Hardness (calculated as CaCO3) | 8 | N/A | 2010/03/08 | | |
| Ion Balance | 8 | N/A | 2010/03/08 | | |
| Na, K, Ca, Mg, S by CRC ICPMS (diss.) | 8 | N/A | 2010/03/06 | BRN SOP-00206 R7.0 | Based on EPA 200.8 |
| Elements by ICPMS Low Level (dissolved) (1) | 8 | N/A | 2010/03/06 | BRN SOP-00206 R7.0 | Based on EPA 200.8 |
| Elements by ICPMS Low Level (total) (1) | 8 | 2010/03/04 | 2010/03/06 | BRN SOP-00206 R7.0 | Based on EPA 200.8 |
| Na, K, Ca, Mg, S by CRC ICPMS (total) | 8 | 2010/03/04 | 2010/03/06 | BRN SOP-00206 R7.0 | Based on EPA 200.8 |
| Ammonia (N) | 8 | N/A | 2010/03/03 | BRN SOP-00232 R4.0 | Based on USEPA 350.1 |
| Nitrate + Nitrite (N) | 8 | N/A | 2010/03/04 | ING233 Rev.4.4 | Based on EPA 353.2 |
| Nitrite (N) by CFA | 8 | N/A | 2010/03/04 | BRN SOP-00233 R1.0 | EPA 353.2 |
| Nitrogen - Nitrate (as N) | 8 | N/A | 2010/03/04 | | |
| Filter and HNO3 Preserve for Metals | 8 | N/A | 2010/03/02 | BRN WI-00006 R1.0 | Based on EPA 200.2 |
| pH Water | 8 | N/A | 2010/03/03 | BRN SOP-00264 R4.0 | Based on SM-4500H+B |
| Sulphate by Automated Colourimetry | 8 | N/A | 2010/03/04 | BRN-SOP 00243 R1.0 | Based on EPA 375.4 |
| Total Dissolved Solids (Filt. Residue) | 8 | N/A | 2010/03/03 | BRN SOP 00276 R4.0 | SM 2540C |
| Carbon (Total Organic) | 8 | N/A | 2010/03/03 | BRN SOP-00224 R4.0 | Based on SM-5310C |
| Total Phosphorus | 8 | N/A | 2010/03/02 | BRN SOP-00236 R4.0 | SM 4500 |
| Total Suspended Solids | 8 | N/A | 2010/03/03 | BRN SOP-00277 R5.0 | Based on SM-2540 D |

* Results relate only to the items tested.

(1) SCC/CAEAL

Maxxam Job #: B011427
Report Date: 2010/03/08

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: PI

-2-

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

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=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CALA have approved this reporting process and electronic report format.

Total cover pages: 2

Maxxam Job #: B011427
 Report Date: 2010/03/08

 ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

 Your P.O. #: SFN-09-02
 Sampler Initials: PI

RESULTS OF CHEMICAL ANALYSES OF WATER

| Maxxam ID | | T00650 | T00651 | T00652 | T00653 | T00654 | T00655 | T00656 | T00657 | | |
|--------------------------------|----------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------|--------|----------|
| Sampling Date | | 2010/02/26 09:50 | 2010/02/26 10:10 | 2010/02/26 11:10 | 2010/02/26 10:50 | 2010/02/26 11:30 | 2010/02/26 12:00 | 2010/02/26 12:25 | 2010/02/26 | | |
| | Units | P4 | A1 | R4 | R6 | R3 | V6A | P1 | DUPLICATE | RDL | QC Batch |
| Misc. Inorganics | | | | | | | | | | | |
| Fluoride (F) | mg/L | 0.12 | 0.11 | 0.12 | 0.08 | 0.13 | 0.10 | 0.12 | 0.10 | 0.01 | 3781503 |
| Preparation | | | | | | | | | | | |
| Filter and HNO3 Preservation | N/A | FIELD | FIELD | FIELD | FIELD | FIELD | FIELD | FIELD | FIELD | N/A | ONSITE |
| ANIONS | | | | | | | | | | | |
| Nitrite (N) | mg/L | <0.005 | <0.005 | <0.005 | <0.005 | 0.006 | <0.005 | <0.005 | <0.005 | 0.005 | 3788202 |
| Calculated Parameters | | | | | | | | | | | |
| Ion Balance | N/A | 0.93 | 0.94 | 0.98 | 0.95 | 0.98 | 0.98 | 0.96 | 0.95 | 0.01 | 3781387 |
| Nitrate (N) | mg/L | 0.10 | 0.24 | 0.25 | 0.22 | 0.23 | 0.33 | 0.08 | 0.35 | 0.02 | 3781388 |
| Misc. Inorganics | | | | | | | | | | | |
| Weak Acid Dissoc. Cyanide (CN) | mg/L | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.0005 | <0.0005 | <0.0005 | 0.0005 | 3792900 |
| Dissolved Organic Carbon (C) | mg/L | 0.8 | 1.3 | 1.5 | 0.9 | 1.5 | 1.8 | 1.4 | 1.9 | 0.5 | 3785361 |
| Alkalinity (Total as CaCO3) | mg/L | 160 | 150 | 160 | 150 | 170 | 120 | 160 | 130 | 0.5 | 3786679 |
| Total Organic Carbon (C) | mg/L | 1.4 | 1.2 | 1.6 | 1.3 | 1.4 | 1.5 | 1.6 | 1.9 | 0.5 | 3785292 |
| Alkalinity (PP as CaCO3) | mg/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 3786679 |
| Bicarbonate (HCO3) | mg/L | 200 | 180 | 200 | 190 | 200 | 150 | 190 | 150 | 0.5 | 3786679 |
| Carbonate (CO3) | mg/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 3786679 |
| Hydroxide (OH) | mg/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 3786679 |
| Anions | | | | | | | | | | | |
| Dissolved Sulphate (SO4) | mg/L | 80 | 56 | 140 | 23 | 170 | 64 | 79 | 62 | 0.5 | 3787028 |
| Dissolved Chloride (Cl) | mg/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 3787027 |
| Nutrients | | | | | | | | | | | |
| Ammonia (N) | mg/L | <0.005 | <0.005 | <0.005 | <0.005 | 0.025 | <0.005 | <0.005 | <0.005 | 0.005 | 3787024 |
| Nitrate plus Nitrite (N) | mg/L | 0.10 | 0.24 | 0.25 | 0.22 | 0.24 | 0.33 | 0.08 | 0.35 | 0.02 | 3788199 |
| Total Phosphorus (P) | mg/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 3780674 |
| Physical Properties | | | | | | | | | | | |
| Conductivity | uS/cm | 435 | 375 | 536 | 327 | 606 | 348 | 430 | 356 | 1 | 3786677 |
| pH | pH Units | 8.1 | 8.1 | 8.0 | 8.1 | 8.0 | 8.0 | 8.1 | 8.1 | | 3786560 |
| Physical Properties | | | | | | | | | | | |
| Total Suspended Solids | mg/L | <1 | <1 | <1 | <1 | <1 | 2 | <1 | 3 | 1 | 3782118 |
| Total Dissolved Solids | mg/L | 330 | 220 | 380 | 200 | 390 | 210 | 260 | 220 | 10 | 3783453 |

N/A = Not Applicable

RDL = Reportable Detection Limit

Maxxam Job #: B011427
 Report Date: 2010/03/08

ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
 Sampler Initials: PI

LOW LEVEL DISSOLVED METALS - WATER (WATER)

| Maxxam ID | | T00650 | T00651 | T00652 | T00653 | T00654 | T00655 | T00656 | T00657 | | |
|----------------------------|--------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------------|------------|-----------------|
| Sampling Date | | 2010/02/26 09:50 | 2010/02/26 10:10 | 2010/02/26 11:10 | 2010/02/26 10:50 | 2010/02/26 11:30 | 2010/02/26 12:00 | 2010/02/26 12:25 | 2010/02/26 | | |
| | Units | P4 | A1 | R4 | R6 | R3 | V6A | P1 | DUPLICATE | RDL | QC Batch |
| Misc. Inorganics | | | | | | | | | | | |
| Dissolved Hardness (CaCO3) | mg/L | 222 | 186 | 283 | 166 | 323 | 180 | 225 | 177 | 0.5 | 3781057 |

RDL = Reportable Detection Limit

Maxxam Job #: B011427
 Report Date: 2010/03/08

 ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

 Your P.O. #: SFN-09-02
 Sampler Initials: PI

LOW LEVEL DISSOLVED METALS - WATER (WATER)

| Maxxam ID | | T00650 | T00651 | T00652 | T00653 | T00654 | T00655 | T00656 | T00657 | | |
|----------------------------------|-------|----------------------|----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------|-------|----------|
| Sampling Date | | 2010/02/26 09:50 | 2010/02/26 10:10 | 2010/02/26 11:10 | 2010/02/26 10:50 | 2010/02/26 11:30 | 2010/02/26 12:00 | 2010/02/26 12:25 | 2010/02/26 | | |
| | Units | P4 | A1 | R4 | R6 | R3 | V6A | P1 | DUPLICATE | RDL | QC Batch |
| Dissolved Metals by ICPMS | | | | | | | | | | | |
| Dissolved Aluminium (Al) | ug/L | 2.0 | 1.6 | 1.3 | 1.7 | 1.1 | 4.9 | 1.4 | 4.9 | 0.2 | 3789409 |
| Dissolved Antimony (Sb) | ug/L | 0.16 | 0.13 | 0.11 | 0.12 | 0.06 | 0.08 | 0.22 | 0.07 | 0.02 | 3789409 |
| Dissolved Arsenic (As) | ug/L | 0.28 | 0.64 | 0.24 | 0.33 | 0.14 | 0.75 | 0.25 | 0.72 | 0.02 | 3789409 |
| Dissolved Barium (Ba) | ug/L | 71.6 | 79.5 | 85.7 | 89.6 | 68.6 | 46.7 | 87.4 | 45.8 | 0.02 | 3789409 |
| Dissolved Beryllium (Be) | ug/L | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 3789409 |
| Dissolved Bismuth (Bi) | ug/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 3789409 |
| Dissolved Boron (B) | ug/L | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | 50 | 3789409 |
| Dissolved Cadmium (Cd) | ug/L | 0.036 | 0.006 | 0.006 | 0.008 | 0.013 | 0.044 | 0.072 | 0.047 | 0.005 | 3789409 |
| Dissolved Chromium (Cr) | ug/L | <0.1 | 0.1 | <0.1 | <0.1 | 0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 3789409 |
| Dissolved Cobalt (Co) | ug/L | 0.008 | 0.019 | 0.031 | 0.013 | 0.138 | 0.019 | 0.015 | 0.011 | 0.005 | 3789409 |
| Dissolved Copper (Cu) | ug/L | 0.34 | 0.42 | 0.41 | 0.29 | 0.29 | 0.33 | 0.28 | 0.28 | 0.05 | 3789409 |
| Dissolved Iron (Fe) | ug/L | 2 | 5 | 10 | 14 | 8 | 10 | 10 | 10 | 1 | 3789409 |
| Dissolved Lead (Pb) | ug/L | 0.066 ⁽¹⁾ | 0.060 ⁽¹⁾ | 0.017 | 0.025 | 0.005 | 0.073 | 0.006 | 0.069 | 0.005 | 3789409 |
| Dissolved Lithium (Li) | ug/L | 3.3 | 3.7 | 4.5 | 2.6 | 5.8 | 1.5 | 3.2 | 1.5 | 0.5 | 3789409 |
| Dissolved Manganese (Mn) | ug/L | 0.11 | 1.45 | 27.1 | 6.13 | 202 | 1.17 | 6.90 | 0.93 | 0.05 | 3789409 |
| Dissolved Molybdenum (Mo) | ug/L | 0.96 | 1.11 | 0.56 | 1.38 | 0.33 | 0.19 | 1.12 | 0.18 | 0.05 | 3789409 |
| Dissolved Nickel (Ni) | ug/L | 0.43 | 0.37 | 0.72 | 0.23 | 1.80 | 0.35 | 0.68 | 0.27 | 0.02 | 3789409 |
| Dissolved Selenium (Se) | ug/L | 1.56 | 0.81 | 0.70 | 0.85 | 0.58 | 0.21 | 2.50 | 0.20 | 0.04 | 3789409 |
| Dissolved Silicon (Si) | ug/L | 3130 | 5240 | 4750 | 5050 | 5490 | 5110 | 3210 | 5050 | 100 | 3789409 |
| Dissolved Silver (Ag) | ug/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 3789409 |
| Dissolved Strontium (Sr) | ug/L | 235 | 181 | 270 | 149 | 306 | 235 | 230 | 232 | 0.05 | 3789409 |
| Dissolved Thallium (Tl) | ug/L | <0.002 | <0.002 | <0.002 | <0.002 | 0.002 | 0.003 | 0.003 | 0.003 | 0.002 | 3789409 |
| Dissolved Tin (Sn) | ug/L | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 3789409 |
| Dissolved Titanium (Ti) | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 3789409 |
| Dissolved Uranium (U) | ug/L | 2.28 | 2.55 | 2.71 | 2.49 | 2.78 | 5.32 | 1.74 | 5.24 | 0.002 | 3789409 |
| Dissolved Vanadium (V) | ug/L | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 0.2 | 3789409 |
| Dissolved Zinc (Zn) | ug/L | 2.6 ⁽¹⁾ | 1.7 | 3.5 | 0.9 | 6.2 | 22.3 | 3.8 | 21.3 | 0.1 | 3789409 |
| Dissolved Zirconium (Zr) | ug/L | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 3789409 |
| Dissolved Calcium (Ca) | mg/L | 58.7 | 55.9 | 85.1 | 48.9 | 96.5 | 53.4 | 61.4 | 52.4 | 0.05 | 3794291 |
| Dissolved Magnesium (Mg) | mg/L | 18.2 | 11.4 | 17.1 | 10.6 | 19.9 | 11.4 | 17.3 | 11.2 | 0.05 | 3794291 |
| Dissolved Potassium (K) | mg/L | 0.76 | 1.53 | 1.76 | 1.30 | 1.80 | 0.54 | 0.89 | 0.54 | 0.05 | 3794291 |
| Dissolved Sodium (Na) | mg/L | 2.10 | 3.34 | 5.31 | 2.11 | 6.51 | 1.98 | 2.00 | 1.91 | 0.05 | 3794291 |
| Dissolved Sulphur (S) | mg/L | 26 | 18 | 49 | 7 | 61 | 23 | 27 | 21 | 3 | 3794291 |

RDL = Reportable Detection Limit

(1) - Dissolved greater than total. Reanalysis yields similar results

Maxxam Job #: B011427
 Report Date: 2010/03/08

ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
 Sampler Initials: PI

LOW LEVEL TOTAL METALS - WATER (WATER)

| Maxxam ID | | T00650 | T00651 | T00652 | T00653 | T00654 | T00655 | T00656 | T00657 | | |
|------------------------------|--------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------------|------------|-----------------|
| Sampling Date | | 2010/02/26 09:50 | 2010/02/26 10:10 | 2010/02/26 11:10 | 2010/02/26 10:50 | 2010/02/26 11:30 | 2010/02/26 12:00 | 2010/02/26 12:25 | 2010/02/26 | | |
| | Units | P4 | A1 | R4 | R6 | R3 | V6A | P1 | DUPLICATE | RDL | QC Batch |
| Calculated Parameters | | | | | | | | | | | |
| Total Hardness (CaCO3) | mg/L | 218 | 177 | 262 | 160 | 310 | 172 | 208 | 165 | 0.5 | 3781386 |

RDL = Reportable Detection Limit

Maxxam Job #: B011427
Report Date: 2010/03/08

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: PI

LOW LEVEL TOTAL METALS - WATER (WATER)

| Maxxam ID | | T00650 | T00651 | T00652 | T00653 | T00654 | T00655 | T00656 | T00657 | | |
|------------------------------|-------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-----------|-------|----------|
| Sampling Date | | 2010/02/26 09:50 | 2010/02/26 10:10 | 2010/02/26 11:10 | 2010/02/26 10:50 | 2010/02/26 11:30 | 2010/02/26 12:00 | 2010/02/26 12:25 | | | |
| | Units | P4 | A1 | R4 | R6 | R3 | V6A | P1 | DUPLICATE | RDL | QC Batch |
| Total Metals by ICPMS | | | | | | | | | | | |
| Total Aluminum (Al) | ug/L | 2.9 | 7.8 | 2.9 | 4.8 | 1.2 | 13.8 | 2.2 | 16.1 | 0.2 | 3787525 |
| Total Antimony (Sb) | ug/L | 0.17 | 0.14 | 0.11 | 0.12 | 0.06 | 0.10 | 0.21 | 0.12 | 0.02 | 3787525 |
| Total Arsenic (As) | ug/L | 0.28 | 0.67 | 0.25 | 0.48 | 0.19 | 0.88 | 0.26 | 0.80 | 0.02 | 3787525 |
| Total Barium (Ba) | ug/L | 71.6 | 78.2 | 84.6 | 89.9 | 71.5 | 46.9 | 82.5 | 44.9 | 0.02 | 3787525 |
| Total Beryllium (Be) | ug/L | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 3787525 |
| Total Bismuth (Bi) | ug/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 3787525 |
| Total Boron (B) | ug/L | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | 50 | 3787525 |
| Total Cadmium (Cd) | ug/L | 0.042 | 0.011 | 0.010 | 0.008 | 0.017 | 0.050 | 0.071 | 0.060 | 0.005 | 3787525 |
| Total Chromium (Cr) | ug/L | <0.1 | 0.1 | 0.2 | 0.1 | 0.1 | <0.1 | <0.1 | 0.1 | 0.1 | 3787525 |
| Total Cobalt (Co) | ug/L | 0.010 | 0.026 | 0.041 | 0.026 | 0.162 | 0.035 | 0.014 | 0.037 | 0.005 | 3787525 |
| Total Copper (Cu) | ug/L | 0.31 | 0.42 | 0.44 | 0.26 | 0.30 | 0.41 | 0.26 | 0.47 | 0.05 | 3787525 |
| Total Iron (Fe) | ug/L | 6 | 35 | 28 | 112 | 33 | 36 | 11 | 42 | 1 | 3787525 |
| Total Lead (Pb) | ug/L | 0.028 | 0.034 | 0.117 | 0.042 | 0.019 | 0.348 | 0.011 | 0.416 | 0.005 | 3787525 |
| Total Lithium (Li) | ug/L | 3.4 | 3.7 | 4.4 | 2.6 | 5.9 | 1.5 | 3.1 | 1.5 | 0.5 | 3787525 |
| Total Manganese (Mn) | ug/L | 0.34 | 6.25 | 32.1 | 10.6 | 204 | 3.59 | 5.96 | 8.08 | 0.05 | 3787525 |
| Total Molybdenum (Mo) | ug/L | 0.92 | 1.10 | 0.55 | 1.35 | 0.34 | 0.20 | 1.07 | 0.28 | 0.05 | 3787525 |
| Total Nickel (Ni) | ug/L | 0.41 | 0.39 | 0.73 | 0.24 | 1.71 | 0.35 | 0.69 | 0.35 | 0.02 | 3787525 |
| Total Selenium (Se) | ug/L | 1.64 | 1.13 | 0.83 | 0.91 | 0.64 | 0.21 | 2.64 | 0.21 | 0.04 | 3787525 |
| Total Silicon (Si) | ug/L | 3150 | 6680 | 5280 | 4910 | 5560 | 4920 | 3050 | 4830 | 100 | 3787525 |
| Total Silver (Ag) | ug/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 3787525 |
| Total Strontium (Sr) | ug/L | 229 | 171 | 253 | 142 | 296 | 227 | 219 | 217 | 0.05 | 3787525 |
| Total Thallium (Tl) | ug/L | <0.002 | <0.002 | 0.002 | <0.002 | 0.002 | 0.003 | 0.002 | 0.003 | 0.002 | 3787525 |
| Total Tin (Sn) | ug/L | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 3787525 |
| Total Titanium (Ti) | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 3787525 |
| Total Uranium (U) | ug/L | 2.26 | 2.49 | 2.65 | 2.41 | 2.79 | 5.18 | 1.65 | 5.00 | 0.002 | 3787525 |
| Total Vanadium (V) | ug/L | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 0.2 | 3787525 |
| Total Zinc (Zn) | ug/L | 2.1 | 1.5 | 3.3 | 0.7 | 5.6 | 23.7 | 2.9 | 24.6 | 0.1 | 3787525 |
| Total Zirconium (Zr) | ug/L | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 3787525 |
| Total Calcium (Ca) | mg/L | 57.4 | 52.7 | 78.5 | 46.9 | 92.3 | 50.9 | 57.0 | 48.8 | 0.05 | 3794158 |
| Total Magnesium (Mg) | mg/L | 18.0 | 11.0 | 16.0 | 10.3 | 19.3 | 11.0 | 16.1 | 10.5 | 0.05 | 3794158 |
| Total Potassium (K) | mg/L | 0.72 | 1.41 | 1.61 | 1.24 | 1.72 | 0.51 | 0.82 | 0.51 | 0.05 | 3794158 |
| Total Sodium (Na) | mg/L | 2.06 | 3.24 | 5.03 | 2.02 | 6.30 | 1.92 | 1.86 | 1.85 | 0.05 | 3794158 |
| Total Sulphur (S) | mg/L | 28 | 21 | 48 | 8 | 59 | 22 | 26 | 22 | 3 | 3794158 |

RDL = Reportable Detection Limit

Maxxam Job #: B011427
Report Date: 2010/03/08

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: PI

| | |
|-----------|-------|
| Package 1 | 7.0°C |
|-----------|-------|

Each temperature is the average of up to three cooler temperatures taken at receipt

General Comments

Maxxam Job #: B011427
 Report Date: 2010/03/08

ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
 Sampler Initials: PI

QUALITY ASSURANCE REPORT

| QC Batch | Parameter | Date | Matrix Spike | | Spiked Blank | | Method Blank | | RPD | |
|----------|------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | Units | Value (%) | QC Limits |
| 3780674 | Total Phosphorus (P) | 2010/03/02 | 93 | 80 - 120 | 94 | 80 - 120 | <0.005 | mg/L | NC | 20 |
| 3781503 | Fluoride (F) | 2010/03/02 | 98 | 80 - 120 | 94 | 80 - 120 | <0.01 | mg/L | 0.8 | 20 |
| 3782118 | Total Suspended Solids | 2010/03/03 | | | 97 | 80 - 120 | <1 | mg/L | | |
| 3783453 | Total Dissolved Solids | 2010/03/03 | 116 | 80 - 120 | 92 | 80 - 120 | <10 | mg/L | NC | 20 |
| 3785292 | Total Organic Carbon (C) | 2010/03/03 | 95 | 80 - 120 | 100 | 80 - 120 | <0.5 | mg/L | NC | 20 |
| 3785361 | Dissolved Organic Carbon (C) | 2010/03/03 | 91 | 80 - 120 | 94 | 80 - 120 | <0.5 | mg/L | 0.5 | 20 |
| 3786677 | Conductivity | 2010/03/03 | | | 101 | 80 - 120 | <1 | uS/cm | 0.6 | 20 |
| 3786679 | Alkalinity (Total as CaCO3) | 2010/03/03 | NC | 80 - 120 | 102 | 80 - 120 | <0.5 | mg/L | 0.9 | 20 |
| 3786679 | Alkalinity (PP as CaCO3) | 2010/03/03 | | | | | <0.5 | mg/L | NC | 20 |
| 3786679 | Bicarbonate (HCO3) | 2010/03/03 | | | | | <0.5 | mg/L | 0.9 | 20 |
| 3786679 | Carbonate (CO3) | 2010/03/03 | | | | | <0.5 | mg/L | NC | 20 |
| 3786679 | Hydroxide (OH) | 2010/03/03 | | | | | <0.5 | mg/L | NC | 20 |
| 3787024 | Ammonia (N) | 2010/03/03 | | | 89 | 80 - 120 | <0.005 | mg/L | NC | 20 |
| 3787027 | Dissolved Chloride (Cl) | 2010/03/03 | NC | 80 - 120 | 100 | 80 - 120 | <0.5 | mg/L | NC | 20 |
| 3787028 | Dissolved Sulphate (SO4) | 2010/03/04 | NC | 80 - 120 | 97 | 80 - 120 | <0.5 | mg/L | 0.7 | 20 |
| 3787525 | Total Arsenic (As) | 2010/03/06 | 108 | 80 - 120 | 96 | 80 - 120 | <0.02 | ug/L | 1.9 | 20 |
| 3787525 | Total Beryllium (Be) | 2010/03/06 | 105 | 80 - 120 | 101 | 80 - 120 | <0.01 | ug/L | NC | 20 |
| 3787525 | Total Cadmium (Cd) | 2010/03/06 | 104 | 80 - 120 | 100 | 80 - 120 | <0.005 | ug/L | 17.2 | 20 |
| 3787525 | Total Chromium (Cr) | 2010/03/06 | 102 | 80 - 120 | 100 | 80 - 120 | <0.1 | ug/L | NC | 20 |
| 3787525 | Total Cobalt (Co) | 2010/03/06 | 99 | 80 - 120 | 98 | 80 - 120 | <0.005 | ug/L | NC | 20 |
| 3787525 | Total Copper (Cu) | 2010/03/06 | 95 | 80 - 120 | 104 | 80 - 120 | <0.05 | ug/L | 1.3 | 20 |
| 3787525 | Total Lead (Pb) | 2010/03/06 | 99 | 80 - 120 | 108 | 80 - 120 | <0.005 | ug/L | 6.6 | 20 |
| 3787525 | Total Lithium (Li) | 2010/03/06 | 107 | 80 - 120 | 106 | 80 - 120 | <0.5 | ug/L | 0.4 | 20 |
| 3787525 | Total Nickel (Ni) | 2010/03/06 | 97 | 80 - 120 | 100 | 80 - 120 | <0.02 | ug/L | 1.8 | 20 |
| 3787525 | Total Selenium (Se) | 2010/03/06 | 111 | 80 - 120 | 102 | 80 - 120 | <0.04 | ug/L | 1.2 | 20 |
| 3787525 | Total Uranium (U) | 2010/03/06 | 110 | 80 - 120 | 107 | 80 - 120 | <0.002 | ug/L | 0.4 | 20 |
| 3787525 | Total Vanadium (V) | 2010/03/06 | 104 | 80 - 120 | 95 | 80 - 120 | <0.2 | ug/L | NC | 20 |
| 3787525 | Total Zinc (Zn) | 2010/03/06 | 102 | 80 - 120 | 104 | 80 - 120 | <0.1 | ug/L | 13.7 | 20 |
| 3787525 | Total Aluminum (Al) | 2010/03/06 | | | | | <0.2 | ug/L | 3.9 | 20 |
| 3787525 | Total Antimony (Sb) | 2010/03/06 | | | | | <0.02 | ug/L | 2.0 | 20 |
| 3787525 | Total Barium (Ba) | 2010/03/06 | | | | | <0.02 | ug/L | 0.03 | 20 |
| 3787525 | Total Bismuth (Bi) | 2010/03/06 | | | | | <0.005 | ug/L | NC | 20 |
| 3787525 | Total Boron (B) | 2010/03/06 | | | | | <50 | ug/L | NC | 20 |
| 3787525 | Total Iron (Fe) | 2010/03/06 | | | | | <1 | ug/L | 3.4 | 20 |
| 3787525 | Total Manganese (Mn) | 2010/03/06 | | | | | <0.05 | ug/L | 2.6 | 20 |
| 3787525 | Total Molybdenum (Mo) | 2010/03/06 | | | | | <0.05 | ug/L | 5.3 | 20 |
| 3787525 | Total Silicon (Si) | 2010/03/06 | | | | | <100 | ug/L | 1.3 | 20 |
| 3787525 | Total Silver (Ag) | 2010/03/06 | | | | | <0.005 | ug/L | NC | 20 |
| 3787525 | Total Strontium (Sr) | 2010/03/06 | | | | | <0.05 | ug/L | 0.3 | 20 |

Maxxam Job #: B011427
Report Date: 2010/03/08

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: PI

QUALITY ASSURANCE REPORT

| QC Batch | Parameter | Date | Matrix Spike | | Spiked Blank | | Method Blank | | RPD | |
|----------|--------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | Units | Value (%) | QC Limits |
| 3787525 | Total Thallium (Tl) | 2010/03/06 | | | | | <0.002 | ug/L | NC | 20 |
| 3787525 | Total Tin (Sn) | 2010/03/06 | | | | | <0.01 | ug/L | NC | 20 |
| 3787525 | Total Titanium (Ti) | 2010/03/06 | | | | | <0.5 | ug/L | NC | 20 |
| 3787525 | Total Zirconium (Zr) | 2010/03/06 | | | | | <0.1 | ug/L | NC | 20 |
| 3788199 | Nitrate plus Nitrite (N) | 2010/03/04 | 97 | 80 - 120 | 100 | 80 - 120 | <0.02 | mg/L | NC | 25 |
| 3788202 | Nitrite (N) | 2010/03/04 | 100 | 80 - 120 | 104 | 80 - 120 | <0.005 | mg/L | NC | 20 |
| 3789409 | Dissolved Arsenic (As) | 2010/03/06 | 106 | 80 - 120 | 96 | 80 - 120 | <0.02 | ug/L | NC | 20 |
| 3789409 | Dissolved Beryllium (Be) | 2010/03/06 | 101 | 80 - 120 | 96 | 80 - 120 | <0.01 | ug/L | NC | 20 |
| 3789409 | Dissolved Cadmium (Cd) | 2010/03/06 | 104 | 80 - 120 | 95 | 80 - 120 | <0.005 | ug/L | NC | 20 |
| 3789409 | Dissolved Chromium (Cr) | 2010/03/06 | 103 | 80 - 120 | 101 | 80 - 120 | <0.1 | ug/L | NC | 20 |
| 3789409 | Dissolved Cobalt (Co) | 2010/03/06 | 98 | 80 - 120 | 100 | 80 - 120 | <0.005 | ug/L | 6.3 | 20 |
| 3789409 | Dissolved Copper (Cu) | 2010/03/06 | 97 | 80 - 120 | 104 | 80 - 120 | <0.05 | ug/L | 16.4 | 20 |
| 3789409 | Dissolved Lead (Pb) | 2010/03/06 | 96 | 80 - 120 | 105 | 80 - 120 | <0.005 | ug/L | NC | 20 |
| 3789409 | Dissolved Lithium (Li) | 2010/03/06 | 105 | 80 - 120 | 104 | 80 - 120 | <0.5 | ug/L | NC | 20 |
| 3789409 | Dissolved Nickel (Ni) | 2010/03/06 | 98 | 80 - 120 | 101 | 80 - 120 | <0.02 | ug/L | 18.7 | 20 |
| 3789409 | Dissolved Selenium (Se) | 2010/03/06 | 108 | 80 - 120 | 97 | 80 - 120 | <0.04 | ug/L | NC | 20 |
| 3789409 | Dissolved Uranium (U) | 2010/03/06 | 105 | 80 - 120 | 105 | 80 - 120 | <0.002 | ug/L | 2.4 | 20 |
| 3789409 | Dissolved Vanadium (V) | 2010/03/06 | 102 | 80 - 120 | 96 | 80 - 120 | <0.2 | ug/L | NC | 20 |
| 3789409 | Dissolved Zinc (Zn) | 2010/03/06 | 105 | 80 - 120 | 103 | 80 - 120 | <0.1 | ug/L | 12.8 | 20 |
| 3789409 | Dissolved Aluminum (Al) | 2010/03/06 | | | | | <0.2 | ug/L | 0.8 | 20 |
| 3789409 | Dissolved Antimony (Sb) | 2010/03/06 | | | | | <0.02 | ug/L | NC | 20 |
| 3789409 | Dissolved Barium (Ba) | 2010/03/06 | | | | | <0.02 | ug/L | 1.4 | 20 |
| 3789409 | Dissolved Bismuth (Bi) | 2010/03/06 | | | | | <0.005 | ug/L | NC | 20 |
| 3789409 | Dissolved Boron (B) | 2010/03/06 | | | | | <50 | ug/L | NC | 20 |
| 3789409 | Dissolved Iron (Fe) | 2010/03/06 | | | | | <1 | ug/L | 0.4 | 20 |
| 3789409 | Dissolved Manganese (Mn) | 2010/03/06 | | | | | <0.05 | ug/L | 6.2 | 20 |
| 3789409 | Dissolved Molybdenum (Mo) | 2010/03/06 | | | | | <0.05 | ug/L | 1.2 | 20 |
| 3789409 | Dissolved Silicon (Si) | 2010/03/06 | | | | | <100 | ug/L | 3.4 | 20 |
| 3789409 | Dissolved Silver (Ag) | 2010/03/06 | | | | | <0.005 | ug/L | NC | 20 |
| 3789409 | Dissolved Strontium (Sr) | 2010/03/06 | | | | | <0.05 | ug/L | 0.3 | 20 |
| 3789409 | Dissolved Thallium (Tl) | 2010/03/06 | | | | | <0.002 | ug/L | NC | 20 |
| 3789409 | Dissolved Tin (Sn) | 2010/03/06 | | | | | <0.01 | ug/L | NC | 20 |
| 3789409 | Dissolved Titanium (Ti) | 2010/03/06 | | | | | <0.5 | ug/L | NC | 20 |
| 3789409 | Dissolved Zirconium (Zr) | 2010/03/06 | | | | | <0.1 | ug/L | NC | 20 |
| 3792900 | Weak Acid Dissoc. Cyanide (CN) | 2010/03/05 | 100 | 80 - 120 | 101 | 80 - 120 | <0.0005 | mg/L | NC | 20 |
| 3794158 | Total Calcium (Ca) | 2010/03/06 | | | | | <0.05 | mg/L | 0.4 | 20 |
| 3794158 | Total Magnesium (Mg) | 2010/03/06 | | | | | <0.05 | mg/L | 1.4 | 20 |
| 3794158 | Total Potassium (K) | 2010/03/06 | | | | | <0.05 | mg/L | 0.7 | 20 |
| 3794158 | Total Sodium (Na) | 2010/03/06 | | | | | <0.05 | mg/L | 2.3 | 20 |

Maxxam Job #: B011427
 Report Date: 2010/03/08

ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
 Sampler Initials: PI

QUALITY ASSURANCE REPORT

| QC Batch | Parameter | Date | Matrix Spike | | Spiked Blank | | Method Blank | | RPD | |
|----------|--------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | Units | Value (%) | QC Limits |
| 3794158 | Total Sulphur (S) | 2010/03/06 | | | | | <3 | mg/L | 2.1 | 20 |
| 3794291 | Dissolved Calcium (Ca) | 2010/03/06 | | | | | <0.05 | mg/L | 0.1 | 20 |
| 3794291 | Dissolved Magnesium (Mg) | 2010/03/06 | | | | | <0.05 | mg/L | 2.1 | 20 |
| 3794291 | Dissolved Potassium (K) | 2010/03/06 | | | | | <0.05 | mg/L | 0.4 | 20 |
| 3794291 | Dissolved Sodium (Na) | 2010/03/06 | | | | | <0.05 | mg/L | 1.9 | 20 |
| 3794291 | Dissolved Sulphur (S) | 2010/03/06 | | | | | <3 | mg/L | 0.4 | 20 |

N/A = Not Applicable

RPD = Relative Percent Difference

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.

NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.



8577 Commerce Court Phone: (604) 444-4808
 Burnaby, BC V5A 4N5 Fax: (604) 444-4511
 www.maxxamanalytics.com Toll-Free: 1-800-440-4808

CHAIN-OF CUSTODY RECORD AND ANALYSIS REQUEST



| | | |
|--|------------------|-----------------------|
| LAB USE ONLY MAXXAM JOB # B011427 | ANALYSIS REQUEST | LAB USE ONLY COC # |
|--|------------------|-----------------------|

| | |
|--|---|
| COMPANY NAME: Access Consulting Group | CLIENT PROJECT NO.: SFN-07-01 |
| COMPANY ADDRESS: #3 Calcite Business Center 151 Industrial Rd Whitehorse, YT Y1A 2V3 | TEL: (867) 668-6463 E-MAIL: paul@accessconsulting.ca david@accessconsulting.ca FAX: (867) 668-6680 |
| SAMPLER NAME (PRINT): Paul Inglis | PROJECT MANAGER: David Petkovich LABORATORY CONTACT: Kim Webber |

| FIELD SAMPLE ID | MAXXAM LAB # (LAB USE ONLY) | MATRIX | | | | SAMPLING | | # CONTAINERS | LAB USE ONLY | | | | | | | | | |
|-----------------|--------------------------------|-------------|---------------|----------------|------|----------|-----------|--------------|--------------|-----------------------|-----------|--------------------------|------------------------------|-----|--------------------------------------|---------|-----------------|--|
| | | GROUNDWATER | SURFACE WATER | DRINKING WATER | SOIL | OTHER | DATE | | TIME | General (Alk, EC, pH) | TSS (TDS) | Total Metals (Low Level) | Dissolved Metals (Low Level) | DOC | Anions - (Cl, F, NH3, NO2, NO3, SO4) | Cyanide | Phosphorus, TOC | |
| 1 P4 | | X | | | | | 26-Feb-10 | 9:50 | 8 | X | X | X | X | X | X | X | X | |
| 2 A1 | | X | | | | | 26-Feb-10 | 10:10 | 8 | X | X | X | X | X | X | X | X | |
| 3 R4 | | X | | | | | 26-Feb-10 | 11:10 | 8 | X | X | X | X | X | X | X | X | |
| 4 R6 | | X | | | | | 26-Feb-10 | 10:50 | 8 | X | X | X | X | X | X | X | X | |
| 5 R3 | | X | | | | | 26-Feb-10 | 11:30 | 8 | X | X | X | X | X | X | X | X | |
| 6 V6A | | X | | | | | 26-Feb-10 | 12:00 | 8 | X | X | X | X | X | X | X | X | |
| 7 P1 | | X | | | | | 26-Feb-10 | 12:25 | 8 | X | X | X | X | X | X | X | X | |
| 8 Duplicate | | X | | | | | 26-Feb-10 | | 8 | X | X | X | X | X | X | X | X | |
| 9 | | X | | | | | | | | | | | | | | | | |
| 10 | | X | | | | | | | | | | | | | | | | |
| 11 | | X | | | | | | | | | | | | | | | | |
| 12 | | X | | | | | | | | | | | | | | | | |

| | | | | | | |
|--|--|---|-----------------------------------|----------------------------------|-----------|---------------|
| TAT (Turnaround Time) LESS THAN 5 DAY TAT MUST HAVE PRIOR APPROVAL | PO NUMBER OR QUOTE NUMBER: SFN-09-02 | SPECIAL DETECTION LIMITS / CONTAMINANT TYPE: AS per previous SFN-07-01/ SFN-09-02 sampling | CCME CSR AB TIER 1 OTHER | LAB USE ONLY | | |
| * Some exceptions apply - please contact laboratory STANDARD 5 BUSINESS DAYS RUSH 3 BUSINESS DAYS RUSH 2 BUSINESS DAYS URGENT 1 BUSINESS DAY | ACCOUNTING CONTACT: Colette MacMillon | SPECIAL REPORTING OR BILLING INSTRUCTIONS: | # JARS USED: 717.7 | ARRIVAL TEMPERATURE °C: 717.7 | DUE DATE: | LOG IN CHECK: |
| OTHER BUSINESS DAYS | RELINQUISHED BY SAMPLER: Paul Inglis | DATE: DD/MMYY 26/02/2010 | TIME: 8:30 | RECEIVED BY: | | |
| | RELINQUISHED BY: | DATE: DD/MMYY | TIME: | RECEIVED BY: | | |
| | RELINQUISHED BY: | DATE: DD/MMYY 1/3/10 Page 12 of 12 | TIME: 17:00 | RECEIVED BY LABORATORY: h | | |

CUSTODY RECORD



A MEMBER OF ALEXCO RESOURCE GROUP

3 Calcite Business Centre, 151 Industrial Road, Whitehorse, Yukon Y1A 2V3

PHONE (867) 668-6463 FAX (867) 667-6680

WWW.ACCESSCONSULTING.CA

MEMORANDUM

TO: File

CC: David Petkovich
Scott Keeseey

FROM: Durand Cornett

RE: **March 2010 water sampling at Faro (Pelly River Interim Aquatic Ecosystem Monitoring Plan)**

PROJECT #: SFN-09-02

DATE: April 1, 2010

The following is a brief trip report for the monthly water sampling event in the area of the Anvil Range Mine for the month of March 2010.

In the late morning of March 29th, 2009 Durand Cornett (ACG) travelled from Whitehorse to Pelly Crossing where he picked up Randy Profeit (SFN). These two constituted the field crew for the sampling event. They then drove to Faro arriving at 17:00.

On March 30th the field crew drove the Mine Access Road to the mine site, arriving at the Admin building at 8:45. Durand had to re-take Denison's safety orientation as it is now their policy to take the course on an annual basis. After checking in and getting orientated the field crew sampled sites FC and VR (within the compound). On the way back to Faro the field crew sampled sites R1, VW1 and VW2. The crew then met Trans North Helicopters pilot Ben Drury at 12:15 at the Faro Airport. Weather while sampling in the afternoon was sunny with light clouds and the temperature was around 3 to 6°C. The following sites were sampled by helicopter: P1, P4, A1, R6, R3, and V6A. There was no sample collected at R4 as the crew could not find a safe area to access water and thick ice prevented sampling elsewhere. In-situ measurements were taken with an YSI multi-meter. Eight sample bottles were collected at each station with the following parameters being screened for:

- General (including Alkalinity, conductivity and pH)
- TSS and TDS
- Total metals
- Dissolved metals (Field Filtered)
- Dissolved Organic Carbon (Field Filtered)
- Cyanide
- Anions
- Total Organic Carbon and Phosphorus

Additionally 1 duplicate sample was prepared and tested. The duplicate was sampled at station R3. All 12 sets of water samples were shipped via Air North Cargo on March 31st to Maxxam Analytics in Burnaby, B.C. for analysis.

| Station | Northing | Easting |
|---------|----------|---------|
| R1 | 62.3337 | 133.378 |
| R3 | 62.38103 | 133.579 |
| R6 | 62.42107 | 133.685 |
| A1 | 62.44574 | 134.123 |
| P1 | 62.20786 | 133.356 |
| P4 | 62.46132 | 134.16 |
| V6A | 62.28019 | 133.258 |
| FC | 62.37258 | 133.35 |
| VR | 62.28282 | 133.252 |
| VW1 | 62.26413 | 133.326 |
| VW2 | 62.25505 | 133.318 |

Notable issues:

- Flow measurements were not taken at R4 or FC due to difficulty in accessing flowing water through the thick ice.



Plate 1: Water sampling at Station P1



Plate 2: Overflow ice at V6A

If you have any questions about this report, please contact Paul Inglis of Access Consulting Group.

Your P.O. #: SFN-09-02
Your Project #: SFN-07-01
Your C.O.C. #: 08311935

Attention: David Petkovich
ACCESS CONSULTING GROUP
#3 Calcite
151 Industrial Road
WHITEHORSE, YT
CANADA Y1A 3C8

Report Date: 2010/04/09

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B019097
Received: 2010/04/01, 08:30

Sample Matrix: Water
Samples Received: 12

| Analyses | Quantity | Date | Date | Laboratory Method | Analytical Method |
|---|----------|------------|------------|--------------------|----------------------|
| | | Extracted | Analyzed | | |
| Alkalinity - Water | 1 | 2010/04/03 | 2010/04/03 | BRN SOP-00264 R4.0 | Based on SM2320B |
| Alkalinity - Water | 1 | 2010/04/03 | 2010/04/05 | BRN SOP-00264 R4.0 | Based on SM2320B |
| Alkalinity - Water | 10 | 2010/04/03 | 2010/04/06 | BRN SOP-00264 R4.0 | Based on SM2320B |
| Chloride by Automated Colourimetry | 11 | N/A | 2010/04/05 | BRN-SOP 00234 R3.0 | Based on EPA 325.2 |
| Chloride by Automated Colourimetry | 1 | N/A | 2010/04/06 | BRN-SOP 00234 R3.0 | Based on EPA 325.2 |
| Cyanide WAD (weak acid dissociable) | 12 | N/A | 2010/04/08 | BRN SOP-00227 R3.0 | Based on SM-4500CN I |
| Carbon (DOC) | 7 | N/A | 2010/04/06 | BRN SOP-00224 R4.0 | Based on M 860-87T |
| Carbon (DOC) | 3 | N/A | 2010/04/07 | BRN SOP-00224 R4.0 | Based on M 860-87T |
| Carbon (DOC) | 2 | N/A | 2010/04/08 | BRN SOP-00224 R4.0 | Based on M 860-87T |
| Conductance - water | 12 | N/A | 2010/04/03 | BRN SOP-00264 R2.0 | Based on SM-2510B |
| Fluoride - Mining Clients | 12 | N/A | 2010/04/05 | BRN SOP-00225 R1.0 | Based SM - 4500 F C |
| Hardness Total (calculated as CaCO3) | 12 | N/A | 2010/04/08 | | |
| Hardness (calculated as CaCO3) | 6 | N/A | 2010/04/07 | | |
| Hardness (calculated as CaCO3) | 6 | N/A | 2010/04/08 | | |
| Ion Balance | 5 | N/A | 2010/04/07 | | |
| Ion Balance | 7 | N/A | 2010/04/08 | | |
| Na, K, Ca, Mg, S by CRC ICPMS (diss.) | 6 | N/A | 2010/04/07 | BRN SOP-00206 | Based on EPA 200.8 |
| Na, K, Ca, Mg, S by CRC ICPMS (diss.) | 6 | N/A | 2010/04/08 | BRN SOP-00206 | Based on EPA 200.8 |
| Elements by ICPMS Low Level (dissolved) Ⓣ | 12 | N/A | 2010/04/07 | BRN SOP-00206 | Based on EPA 200.8 |
| Na, K, Ca, Mg, S by CRC ICPMS (total) | 12 | N/A | 2010/04/08 | BRN SOP-00206 | Based on EPA 200.8 |
| Elements by ICPMS Low Level (total) Ⓣ | 8 | N/A | 2010/04/07 | BRN SOP-00206 | Based on EPA 200.8 |
| Elements by ICPMS Low Level (total) Ⓣ | 4 | N/A | 2010/04/08 | BRN SOP-00206 | Based on EPA 200.8 |
| Ammonia (N) | 12 | N/A | 2010/04/06 | BRN SOP-00232 R4.0 | Based on USEPA 350.1 |
| Nitrate + Nitrite (N) | 12 | N/A | 2010/04/06 | ING233 Rev.4.4 | Based on EPA 353.2 |
| Nitrite (N) by CFA | 12 | N/A | 2010/04/06 | BRN SOP-00233 R1.0 | EPA 353.2 |
| Nitrogen - Nitrate (as N) | 12 | N/A | 2010/04/07 | | |
| Filter and HNO3 Preserve for Metals | 12 | N/A | 2010/04/03 | BRN WI-00006 R1.0 | Based on EPA 200.2 |
| pH Water | 1 | N/A | 2010/04/05 | BRN SOP-00264 R4.0 | Based on SM-4500H+B |
| pH Water | 11 | N/A | 2010/04/06 | BRN SOP-00264 R4.0 | Based on SM-4500H+B |
| Sulphate by Automated Colourimetry | 11 | N/A | 2010/04/05 | BRN-SOP 00243 R1.0 | Based on EPA 375.4 |
| Sulphate by Automated Colourimetry | 1 | N/A | 2010/04/07 | BRN-SOP 00243 R1.0 | Based on EPA 375.4 |
| Total Dissolved Solids (Filt. Residue) | 12 | N/A | 2010/04/06 | BRN SOP 00276 R4.0 | SM 2540C |
| Carbon (Total Organic) | 8 | N/A | 2010/04/06 | BRN SOP-00224 R4.0 | Based on SM-5310C |
| Carbon (Total Organic) | 3 | N/A | 2010/04/07 | BRN SOP-00224 R4.0 | Based on SM-5310C |
| Carbon (Total Organic) | 1 | N/A | 2010/04/08 | BRN SOP-00224 R4.0 | Based on SM-5310C |
| Total Phosphorus | 12 | N/A | 2010/04/06 | BRN SOP-00236 R4.0 | SM 4500 |
| Total Suspended Solids | 11 | N/A | 2010/04/05 | BRN SOP-00277 R5.0 | Based on SM-2540 D |
| Total Suspended Solids | 1 | N/A | 2010/04/06 | BRN SOP-00277 R5.0 | Based on SM-2540 D |

* Results relate only to the items tested.

(1) SCC/CAEAL

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

KIMBERLEY WEBBER, BBY Customer Service
Email: kim.webber@maxxamalytics.com
Phone# (604) 444-4808 Ext:259

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1

Maxxam Job #: B019097
Report Date: 2010/04/09

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: DC

RESULTS OF CHEMICAL ANALYSES OF WATER

| Maxxam ID | | T43961 | T43962 | T43963 | | T43964 | | |
|--------------------------------|----------|------------------|------------------|------------------|----------|------------------|--------|----------|
| Sampling Date | | 2010/03/30 09:20 | 2010/03/30 09:45 | 2010/03/30 10:45 | | 2010/03/30 11:15 | | |
| | Units | FC | VR | R1 | QC Batch | VW1 | RDL | QC Batch |
| Misc. Inorganics | | | | | | | | |
| Fluoride (F) | mg/L | 0.11 | 0.06 | 0.14 | 3859472 | 0.29 | 0.01 | 3859472 |
| ANIONS | | | | | | | | |
| Nitrite (N) | mg/L | <0.005 | <0.005 | <0.005 | 3864514 | <0.005 | 0.005 | 3864514 |
| Calculated Parameters | | | | | | | | |
| Ion Balance | N/A | NC | NC | 1.0 | 3858932 | 1.1 | 0.01 | 3858932 |
| Nitrate (N) | mg/L | 0.08 | 0.08 | 0.18 | 3858906 | 0.19 | 0.02 | 3858906 |
| Misc. Inorganics | | | | | | | | |
| Weak Acid Dissoc. Cyanide (CN) | mg/L | <0.0005 | <0.0005 | <0.0005 | 3866628 | <0.0005 | 0.0005 | 3866628 |
| Dissolved Organic Carbon (C) | mg/L | 2.4 | 2.5 | 1.5 | 3864932 | 3.5 | 0.5 | 3864932 |
| Alkalinity (Total as CaCO3) | mg/L | 25 | 40 | 140 | 3863064 | 290 | 0.5 | 3863064 |
| Total Organic Carbon (C) | mg/L | 1.5 | 1.4 | 5.5 | 3864933 | 2.6 | 0.5 | 3864933 |
| Alkalinity (PP as CaCO3) | mg/L | <0.5 | <0.5 | <0.5 | 3863064 | <0.5 | 0.5 | 3863064 |
| Bicarbonate (HCO3) | mg/L | 30 | 49 | 170 | 3863064 | 350 | 0.5 | 3863064 |
| Carbonate (CO3) | mg/L | <0.5 | <0.5 | <0.5 | 3863064 | <0.5 | 0.5 | 3863064 |
| Hydroxide (OH) | mg/L | <0.5 | <0.5 | <0.5 | 3863064 | <0.5 | 0.5 | 3863064 |
| Anions | | | | | | | | |
| Dissolved Sulphate (SO4) | mg/L | 2.0 | 7.1 | 33 | 3863072 | 110 | 0.5 | 3868112 |
| Dissolved Chloride (Cl) | mg/L | <0.5 | <0.5 | <0.5 | 3863065 | 3.3 | 0.5 | 3864951 |
| Nutrients | | | | | | | | |
| Ammonia (N) | mg/L | 0.013 | <0.005 | 0.129 | 3864953 | 0.051 | 0.005 | 3864953 |
| Nitrate plus Nitrite (N) | mg/L | 0.08 | 0.08 | 0.18 | 3864476 | 0.19 | 0.02 | 3864476 |
| Total Phosphorus (P) | mg/L | <0.005 | <0.005 | <0.005 | 3860632 | <0.005 | 0.005 | 3860632 |
| Physical Properties | | | | | | | | |
| Conductivity | uS/cm | 52 | 97 | 329 | 3859039 | 710 | 1 | 3859039 |
| pH | pH Units | 7.6 | 7.8 | 8.1 | 3863060 | 8.2 | | 3863060 |
| Physical Properties | | | | | | | | |
| Total Suspended Solids | mg/L | 11 | 46 | 3 | 3859293 | 52 | 1 | 3859293 |
| Total Dissolved Solids | mg/L | 26 | 48 | 190 | 3859294 | 440 | 10 | 3859294 |

N/A = Not Applicable
NC = Non-calculable
RDL = Reportable Detection Limit

Maxxam Job #: B019097
Report Date: 2010/04/09

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: DC

RESULTS OF CHEMICAL ANALYSES OF WATER

| Maxxam ID | | T43965 | | T43966 | | T43967 | | T43968 | | |
|--------------------------------|----------|---------------------|----------|---------------------|----------|---------------------|----------|---------------------|--------|----------|
| Sampling Date | | 2010/03/30 11:45 | | 2010/03/30 12:30 | | 2010/03/30 13:00 | | 2010/03/30 13:20 | | |
| | Units | VW2 | QC Batch | P1 | QC Batch | P4 | QC Batch | A1 | RDL | QC Batch |
| Misc. Inorganics | | | | | | | | | | |
| Fluoride (F) | mg/L | 0.20 | 3859472 | 0.11 | 3859472 | 0.29 | 3859472 | 0.10 | 0.01 | 3859472 |
| ANIONS | | | | | | | | | | |
| Nitrite (N) | mg/L | <0.005 | 3864514 | <0.005 | 3864514 | <0.005 | 3864514 | <0.005 | 0.005 | 3864514 |
| Calculated Parameters | | | | | | | | | | |
| Ion Balance | N/A | 1.1 | 3858932 | 1.0 | 3858932 | 0.99 | 3858932 | 0.94 | 0.01 | 3858932 |
| Nitrate (N) | mg/L | 0.21 | 3858906 | 0.08 | 3858906 | 0.03 | 3858906 | 0.25 | 0.02 | 3858906 |
| Misc. Inorganics | | | | | | | | | | |
| Weak Acid Dissoc. Cyanide (CN) | mg/L | <0.0005 | 3866628 | <0.0005 | 3866628 | <0.0005 | 3866628 | <0.0005 | 0.0005 | 3866628 |
| Dissolved Organic Carbon (C) | mg/L | 2.4 | 3864932 | 2.5 | 3864932 | <0.5 | 3864932 | 1.2 | 0.5 | 3867858 |
| Alkalinity (Total as CaCO3) | mg/L | 320 | 3863064 | 160 | 3859040 | 190 | 3863064 | 150 | 0.5 | 3863064 |
| Total Organic Carbon (C) | mg/L | 1.9 | 3864933 | 2.1 | 3864933 | <0.5 | 3864933 | 1.2 | 0.5 | 3864933 |
| Alkalinity (PP as CaCO3) | mg/L | <0.5 | 3863064 | <0.5 | 3859040 | <0.5 | 3863064 | <0.5 | 0.5 | 3863064 |
| Bicarbonate (HCO3) | mg/L | 390 | 3863064 | 190 | 3859040 | 230 | 3863064 | 180 | 0.5 | 3863064 |
| Carbonate (CO3) | mg/L | <0.5 | 3863064 | <0.5 | 3859040 | <0.5 | 3863064 | <0.5 | 0.5 | 3863064 |
| Hydroxide (OH) | mg/L | <0.5 | 3863064 | <0.5 | 3859040 | <0.5 | 3863064 | <0.5 | 0.5 | 3863064 |
| Anions | | | | | | | | | | |
| Dissolved Sulphate (SO4) | mg/L | 120 | 3863072 | 78 | 3863072 | 30 | 3863072 | 81 | 0.5 | 3863072 |
| Dissolved Chloride (Cl) | mg/L | <0.5 | 3863065 | <0.5 | 3863065 | <0.5 | 3863065 | <0.5 | 0.5 | 3863065 |
| Nutrients | | | | | | | | | | |
| Ammonia (N) | mg/L | <0.005 | 3864953 | <0.005 | 3864953 | <0.005 | 3864953 | <0.005 | 0.005 | 3864953 |
| Nitrate plus Nitrite (N) | mg/L | 0.21 | 3864476 | 0.08 | 3864476 | 0.03 | 3864476 | 0.25 | 0.02 | 3864476 |
| Total Phosphorus (P) | mg/L | <0.005 | 3860632 | <0.005 | 3860632 | <0.005 | 3860632 | <0.005 | 0.005 | 3860632 |
| Physical Properties | | | | | | | | | | |
| Conductivity | uS/cm | 771 | 3859039 | 421 | 3859039 | 414 | 3859039 | 421 | 1 | 3859039 |
| pH | pH Units | 8.2 | 3863060 | 8.2 | 3859038 | 8.2 | 3863060 | 8.2 | | 3863060 |
| Physical Properties | | | | | | | | | | |
| Total Suspended Solids | mg/L | 8 | 3859293 | <1 | 3859293 | 50 | 3859293 | 1 | 1 | 3859293 |
| Total Dissolved Solids | mg/L | 460 | 3859294 | 250 | 3859294 | 210 | 3859294 | 240 | 10 | 3859294 |

N/A = Not Applicable
RDL = Reportable Detection Limit

Maxxam Job #: B019097
 Report Date: 2010/04/09

 ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

 Your P.O. #: SFN-09-02
 Sampler Initials: DC

RESULTS OF CHEMICAL ANALYSES OF WATER

| Maxxam ID | | T43969 | | T43970 | T43971 | | | T43972 | | |
|--------------------------------|----------|---------------------|----------|---------------------|---------------------|--------|----------|------------|--------|----------|
| Sampling Date | | 2010/03/30 14:00 | | 2010/03/30 14:20 | 2010/03/30 14:00 | | | 2010/03/30 | | |
| | Units | R6 | QC Batch | R3 | V6A | RDL | QC Batch | DUPLICATE | RDL | QC Batch |
| Misc. Inorganics | | | | | | | | | | |
| Fluoride (F) | mg/L | 0.07 | 3859472 | 0.14 | 0.09 | 0.01 | 3859472 | 0.13 | 0.01 | 3859472 |
| ANIONS | | | | | | | | | | |
| Nitrite (N) | mg/L | <0.005 | 3864514 | <0.005 | <0.005 | 0.005 | 3864514 | <0.005 | 0.005 | 3864514 |
| Calculated Parameters | | | | | | | | | | |
| Ion Balance | N/A | 0.95 | 3858932 | 1.7 | 0.96 | 0.01 | 3858932 | 1.1 | 0.01 | 3858932 |
| Nitrate (N) | mg/L | 0.21 | 3858906 | 0.26 | 0.37 | 0.02 | 3858906 | 0.25 | 0.02 | 3858906 |
| Misc. Inorganics | | | | | | | | | | |
| Weak Acid Dissoc. Cyanide (CN) | mg/L | <0.0005 | 3866628 | <0.0005 | <0.0005 | 0.0005 | 3866628 | 0.0017 | 0.0005 | 3866628 |
| Dissolved Organic Carbon (C) | mg/L | 1.2 | 3872928 | 1.0 | 2.6 | 0.5 | 3867858 | 1.9 | 0.5 | 3872928 |
| Alkalinity (Total as CaCO3) | mg/L | 150 | 3863064 | 180 | 140 | 0.5 | 3863064 | 180 | 0.5 | 3863064 |
| Total Organic Carbon (C) | mg/L | <0.5 | 3869079 | 1.0 | 2.6 | 0.5 | 3869079 | 0.9 | 0.5 | 3873088 |
| Alkalinity (PP as CaCO3) | mg/L | <0.5 | 3863064 | <0.5 | <0.5 | 0.5 | 3863064 | <0.5 | 0.5 | 3863064 |
| Bicarbonate (HCO3) | mg/L | 180 | 3863064 | 220 | 170 | 0.5 | 3863064 | 220 | 0.5 | 3863064 |
| Carbonate (CO3) | mg/L | <0.5 | 3863064 | <0.5 | <0.5 | 0.5 | 3863064 | <0.5 | 0.5 | 3863064 |
| Hydroxide (OH) | mg/L | <0.5 | 3863064 | <0.5 | <0.5 | 0.5 | 3863064 | <0.5 | 0.5 | 3863064 |
| Anions | | | | | | | | | | |
| Dissolved Sulphate (SO4) | mg/L | 24 | 3863072 | 100 | 70 | 0.5 | 3863072 | 270 | 5 | 3863072 |
| Dissolved Chloride (Cl) | mg/L | <0.5 | 3863065 | <0.5 | <0.5 | 0.5 | 3863065 | <0.5 | 0.5 | 3863065 |
| Nutrients | | | | | | | | | | |
| Ammonia (N) | mg/L | <0.005 | 3864953 | 0.120 | <0.005 | 0.005 | 3864953 | 0.117 | 0.005 | 3864953 |
| Nitrate plus Nitrite (N) | mg/L | 0.21 | 3864476 | 0.26 | 0.37 | 0.02 | 3864476 | 0.25 | 0.02 | 3864476 |
| Total Phosphorus (P) | mg/L | <0.005 | 3860632 | <0.005 | <0.005 | 0.005 | 3860632 | <0.005 | 0.005 | 3860632 |
| Physical Properties | | | | | | | | | | |
| Conductivity | uS/cm | 326 | 3859039 | 889 | 400 | 1 | 3859039 | 884 | 1 | 3859039 |
| pH | pH Units | 8.2 | 3863060 | 8.0 | 8.1 | | 3863060 | 8.0 | | 3863060 |
| Physical Properties | | | | | | | | | | |
| Total Suspended Solids | mg/L | <1 | 3859293 | <1 | 25 | 1 | 3859293 | <1 | 1 | 3862217 |
| Total Dissolved Solids | mg/L | 170 | 3859294 | 610 | 240 | 10 | 3859294 | 590 | 10 | 3859294 |

N/A = Not Applicable

RDL = Reportable Detection Limit

Maxxam Job #: B019097
Report Date: 2010/04/09

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: DC

LOW LEVEL DISSOLVED METALS IN WATER (WATER)

| Maxxam ID | | T43961 | T43962 | T43963 | T43964 | T43965 | T43966 | | |
|------------------------------|--------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------|-----------------|
| Sampling Date | | 2010/03/30 09:20 | 2010/03/30 09:45 | 2010/03/30 10:45 | 2010/03/30 11:15 | 2010/03/30 11:45 | 2010/03/30 12:30 | | |
| | Units | FC | VR | R1 | VW1 | VW2 | P1 | RDL | QC Batch |
| Preparation | | | | | | | | | |
| Filter and HNO3 Preservation | N/A | FIELD | FIELD | FIELD | FIELD | FIELD | FIELD | N/A | ONSITE |
| Misc. Inorganics | | | | | | | | | |
| Dissolved Hardness (CaCO3) | mg/L | 18.8 | 45.2 | 166 | 410 | 456 | 233 | 0.5 | 3858904 |

N/A = Not Applicable
RDL = Reportable Detection Limit

Maxxam Job #: B019097
Report Date: 2010/04/09

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: DC

LOW LEVEL DISSOLVED METALS IN WATER (WATER)

| Maxxam ID | | T43961 | T43962 | T43963 | T43964 | T43965 | T43966 | | |
|----------------------------------|-------|---------------------|---------------------|---------------------|---------------------|----------------------|----------------------|-------|----------|
| Sampling Date | | 2010/03/30 09:20 | 2010/03/30 09:45 | 2010/03/30 10:45 | 2010/03/30 11:15 | 2010/03/30 11:45 | 2010/03/30 12:30 | | |
| | Units | FC | VR | R1 | VW1 | VW2 | P1 | RDL | QC Batch |
| Dissolved Metals by ICPMS | | | | | | | | | |
| Dissolved Aluminum (Al) | ug/L | 18.3 | 17.9 | 2.6 | 6.2 | 5.7 | 23.7 ⁽¹⁾ | 0.2 | 3864519 |
| Dissolved Antimony (Sb) | ug/L | 0.02 | 0.04 | 0.05 | 0.07 | 0.33 | 0.19 ⁽¹⁾ | 0.02 | 3864519 |
| Dissolved Arsenic (As) | ug/L | 0.09 | 0.28 | 0.37 | 0.61 | 0.40 | 0.32 | 0.02 | 3864519 |
| Dissolved Barium (Ba) | ug/L | 19.1 | 37.7 | 78.5 | 98.1 | 107 | 82.3 | 0.02 | 3864519 |
| Dissolved Beryllium (Be) | ug/L | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 3864519 |
| Dissolved Bismuth (Bi) | ug/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.006 | 0.005 | 3864519 |
| Dissolved Boron (B) | ug/L | <50 | <50 | <50 | <50 | <50 | <50 | 50 | 3864519 |
| Dissolved Cadmium (Cd) | ug/L | 0.011 | 0.022 | 0.008 | 0.025 | 0.179 | 0.202 | 0.005 | 3864519 |
| Dissolved Chromium (Cr) | ug/L | <0.1 | 0.1 | <0.1 | <0.1 | 0.2 | 0.3 | 0.1 | 3864519 |
| Dissolved Cobalt (Co) | ug/L | 0.014 | 0.022 | 0.102 | 0.100 | 0.015 | 0.028 ⁽¹⁾ | 0.005 | 3864519 |
| Dissolved Copper (Cu) | ug/L | 0.50 | 0.87 | 0.34 | 0.98 | 0.66 ⁽¹⁾ | 1.11 ⁽¹⁾ | 0.05 | 3864519 |
| Dissolved Iron (Fe) | ug/L | 15 | 23 | 125 | 22 | 10 | 25 | 1 | 3864519 |
| Dissolved Lead (Pb) | ug/L | 0.090 | 0.095 | 0.035 | 0.047 | 0.165 ⁽¹⁾ | 0.162 ⁽¹⁾ | 0.005 | 3864519 |
| Dissolved Lithium (Li) | ug/L | 2.5 | <0.5 | 2.7 | 6.2 | 4.0 | 4.0 | 0.5 | 3864519 |
| Dissolved Manganese (Mn) | ug/L | 0.68 | 1.78 | 122 | 90.3 | 0.60 ⁽¹⁾ | 19.7 | 0.05 | 3864519 |
| Dissolved Molybdenum (Mo) | ug/L | 0.12 | 0.16 | 0.31 | 1.23 | 4.31 | 1.16 | 0.05 | 3864519 |
| Dissolved Nickel (Ni) | ug/L | 0.20 | 0.23 | 0.45 | 0.90 | 1.65 | 2.93 | 0.02 | 3864519 |
| Dissolved Selenium (Se) | ug/L | <0.04 | 0.08 | 0.22 | 0.70 | 4.62 | 1.43 | 0.04 | 3864519 |
| Dissolved Silicon (Si) | ug/L | 8430 | 5810 | 5980 | 7750 | 4980 | 3530 | 100 | 3864519 |
| Dissolved Silver (Ag) | ug/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 3864519 |
| Dissolved Strontium (Sr) | ug/L | 32.6 | 67.3 | 257 | 458 | 371 | 244 | 0.05 | 3864519 |
| Dissolved Thallium (Tl) | ug/L | <0.002 | 0.002 | 0.003 | 0.003 | 0.002 | 0.003 | 0.002 | 3864519 |
| Dissolved Tin (Sn) | ug/L | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | 0.03 | 0.01 | 3864519 |
| Dissolved Titanium (Ti) | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 3864519 |
| Dissolved Uranium (U) | ug/L | 0.062 | 0.520 | 3.28 | 5.78 | 9.34 | 2.33 | 0.002 | 3864519 |
| Dissolved Vanadium (V) | ug/L | <0.2 | <0.2 | <0.2 | <0.2 | 1.4 | <0.2 | 0.2 | 3864519 |
| Dissolved Zinc (Zn) | ug/L | 2.5 | 4.0 | 1.9 | 3.6 | 11.1 | 18.4 ⁽¹⁾ | 0.1 | 3864519 |
| Dissolved Zirconium (Zr) | ug/L | <0.1 | <0.1 | <0.1 | 0.1 | <0.1 | <0.1 | 0.1 | 3864519 |
| Dissolved Calcium (Ca) | mg/L | 5.53 | 13.8 | 52.5 | 102 | 114 | 59.6 | 0.05 | 3858918 |
| Dissolved Magnesium (Mg) | mg/L | 1.20 | 2.60 | 8.43 | 37.8 | 41.5 | 20.5 | 0.05 | 3858918 |
| Dissolved Potassium (K) | mg/L | 0.23 | 0.62 | 1.58 | 1.84 | 1.27 | 1.03 | 0.05 | 3858918 |
| Dissolved Sodium (Na) | mg/L | 2.37 | 1.86 | 3.34 | 7.55 | 2.97 | 3.23 | 0.05 | 3858918 |
| Dissolved Sulphur (S) | mg/L | <10 | <10 | 12 | 46 | 49 | 29 | 10 | 3858918 |

RDL = Reportable Detection Limit

(1) - Dissolved greater than total. Reanalysis yields similar results

Maxxam Job #: B019097
Report Date: 2010/04/09

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: DC

LOW LEVEL DISSOLVED METALS IN WATER (WATER)

| Maxxam ID | | T43967 | T43968 | T43969 | T43970 | T43971 | T43972 | | |
|------------------------------|--------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------------|------------|-----------------|
| Sampling Date | | 2010/03/30 13:00 | 2010/03/30 13:20 | 2010/03/30 14:00 | 2010/03/30 14:20 | 2010/03/30 14:00 | 2010/03/30 | | |
| | Units | P4 | A1 | R6 | R3 | V6A | DUPLICATE | RDL | QC Batch |
| Preparation | | | | | | | | | |
| Filter and HNO3 Preservation | N/A | FIELD | FIELD | FIELD | FIELD | FIELD | FIELD | N/A | ONSITE |
| Misc. Inorganics | | | | | | | | | |
| Dissolved Hardness (CaCO3) | mg/L | 205 | 208 | 162 | 449 | 197 | 462 | 0.5 | 3858904 |

N/A = Not Applicable
RDL = Reportable Detection Limit

Maxxam Job #: B019097
 Report Date: 2010/04/09

 ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

 Your P.O. #: SFN-09-02
 Sampler Initials: DC

LOW LEVEL DISSOLVED METALS IN WATER (WATER)

| Maxxam ID | | T43967 | T43968 | T43969 | T43970 | T43971 | T43972 | | |
|----------------------------------|-------|----------------------|----------------------|----------------------|----------------------|---------------------|------------|-------|----------|
| Sampling Date | | 2010/03/30 13:00 | 2010/03/30 13:20 | 2010/03/30 14:00 | 2010/03/30 14:20 | 2010/03/30 14:00 | 2010/03/30 | | |
| | Units | P4 | A1 | R6 | R3 | V6A | DUPLICATE | RDL | QC Batch |
| Dissolved Metals by ICPMS | | | | | | | | | |
| Dissolved Aluminum (Al) | ug/L | 5.3 | 3.8 | 2.3 | 2.2 ⁽¹⁾ | 4.3 | 1.2 | 0.2 | 3864913 |
| Dissolved Antimony (Sb) | ug/L | 0.10 | 0.12 | 0.11 | 0.08 | 0.07 | 0.07 | 0.02 | 3864913 |
| Dissolved Arsenic (As) | ug/L | 1.19 | 0.65 | 0.32 | 0.18 | 0.77 | 0.17 | 0.02 | 3864913 |
| Dissolved Barium (Ba) | ug/L | 87.1 | 84.2 | 86.2 | 66.1 | 53.5 | 66.5 | 0.02 | 3864913 |
| Dissolved Beryllium (Be) | ug/L | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 3864913 |
| Dissolved Bismuth (Bi) | ug/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 3864913 |
| Dissolved Boron (B) | ug/L | <50 | <50 | <50 | <50 | <50 | <50 | 50 | 3864913 |
| Dissolved Cadmium (Cd) | ug/L | 0.110 ⁽¹⁾ | 0.033 ⁽¹⁾ | 0.036 | 0.100 ⁽¹⁾ | 0.063 | 0.049 | 0.005 | 3864913 |
| Dissolved Chromium (Cr) | ug/L | 0.1 | 0.1 | <0.1 | 0.1 | <0.1 | <0.1 | 0.1 | 3864913 |
| Dissolved Cobalt (Co) | ug/L | 0.037 | 0.016 | 0.019 | 2.43 | 0.032 | 2.50 | 0.005 | 3864913 |
| Dissolved Copper (Cu) | ug/L | 0.68 ⁽¹⁾ | 0.59 | 0.73 ⁽¹⁾ | 0.62 ⁽¹⁾ | 0.67 | 0.39 | 0.05 | 3864913 |
| Dissolved Iron (Fe) | ug/L | 15 | 27 | 18 | 15 | 10 | 12 | 1 | 3864913 |
| Dissolved Lead (Pb) | ug/L | 0.082 | 0.027 | 0.069 ⁽¹⁾ | 0.029 | 0.075 | 0.022 | 0.005 | 3864913 |
| Dissolved Lithium (Li) | ug/L | 4.6 | 4.2 | 2.9 | 9.3 | 1.9 | 9.4 | 0.5 | 3864913 |
| Dissolved Manganese (Mn) | ug/L | 13.3 | 1.79 | 4.12 | 2100 | 6.00 | 2140 | 0.05 | 3864913 |
| Dissolved Molybdenum (Mo) | ug/L | 2.01 | 1.16 | 1.38 | 0.51 | 0.21 | 0.50 | 0.05 | 3864913 |
| Dissolved Nickel (Ni) | ug/L | 0.63 | 0.45 | 0.19 | 6.80 | 0.36 | 6.98 | 0.02 | 3864913 |
| Dissolved Selenium (Se) | ug/L | 0.31 | 0.81 | 0.87 | 0.43 | 0.23 | 0.42 | 0.04 | 3864913 |
| Dissolved Silicon (Si) | ug/L | 4970 | 5290 | 4980 | 5800 | 5510 | 5700 | 100 | 3864913 |
| Dissolved Silver (Ag) | ug/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 3864913 |
| Dissolved Strontium (Sr) | ug/L | 237 | 192 | 143 | 404 | 259 | 406 | 0.05 | 3864913 |
| Dissolved Thallium (Tl) | ug/L | 0.003 | 0.002 | <0.002 | 0.013 | 0.004 | 0.014 | 0.002 | 3864913 |
| Dissolved Tin (Sn) | ug/L | 0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 3864913 |
| Dissolved Titanium (Ti) | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 3864913 |
| Dissolved Uranium (U) | ug/L | 1.48 | 2.80 | 2.56 | 3.55 | 6.01 | 3.60 | 0.002 | 3864913 |
| Dissolved Vanadium (V) | ug/L | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 0.2 | 3864913 |
| Dissolved Zinc (Zn) | ug/L | 4.4 ⁽¹⁾ | 1.8 | 2.2 ⁽¹⁾ | 50.0 | 30.9 | 50.6 | 0.1 | 3864913 |
| Dissolved Zirconium (Zr) | ug/L | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 3864913 |
| Dissolved Calcium (Ca) | mg/L | 54.7 | 60.5 | 46.7 | 130 | 56.9 | 133 | 0.05 | 3858918 |
| Dissolved Magnesium (Mg) | mg/L | 16.7 | 14.0 | 11.1 | 30.5 | 13.3 | 31.6 | 0.05 | 3858918 |
| Dissolved Potassium (K) | mg/L | 1.98 | 1.60 | 1.33 | 2.41 | 1.00 | 2.47 | 0.05 | 3858918 |
| Dissolved Sodium (Na) | mg/L | 5.80 | 4.32 | 2.36 | 10.6 | 2.28 | 11.0 | 0.05 | 3858918 |
| Dissolved Sulphur (S) | mg/L | 10 | 25 | <10 | 106 | 23 | 108 | 10 | 3858918 |

RDL = Reportable Detection Limit

(1) - Dissolved greater than total. Reanalysis yields similar results

Maxxam Job #: B019097
Report Date: 2010/04/09

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: DC

LOW LEVEL TOTAL METALS IN WATER (WATER)

| Maxxam ID | | T43961 | T43962 | T43963 | T43964 | | T43965 | T43966 | | |
|------------------------------|-------|---------------------|---------------------|---------------------|---------------------|----------|---------------------|---------------------|-----|----------|
| Sampling Date | | 2010/03/30 09:20 | 2010/03/30 09:45 | 2010/03/30 10:45 | 2010/03/30 11:15 | | 2010/03/30 11:45 | 2010/03/30 12:30 | | |
| | Units | FC | VR | R1 | VW1 | QC Batch | VW2 | P1 | RDL | QC Batch |
| Calculated Parameters | | | | | | | | | | |
| Total Hardness (CaCO3) | mg/L | 18.8 | 44.4 | 155 | 391 | 3858917 | 428 | 230 | 0.5 | 3858917 |

RDL = Reportable Detection Limit

Maxxam Job #: B019097
 Report Date: 2010/04/09

 ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

 Your P.O. #: SFN-09-02
 Sampler Initials: DC

LOW LEVEL TOTAL METALS IN WATER (WATER)

| Maxxam ID | | T43961 | T43962 | T43963 | T43964 | | T43965 | T43966 | | |
|------------------------------|-------|---------------------|---------------------|---------------------|---------------------|----------|---------------------|---------------------|-------|----------|
| Sampling Date | | 2010/03/30 09:20 | 2010/03/30 09:45 | 2010/03/30 10:45 | 2010/03/30 11:15 | | 2010/03/30 11:45 | 2010/03/30 12:30 | | |
| | Units | FC | VR | R1 | VW1 | QC Batch | VW2 | P1 | RDL | QC Batch |
| Total Metals by ICPMS | | | | | | | | | | |
| Total Aluminum (Al) | ug/L | 90.4 | 357 | 9.0 | 111 | 3864821 | 5.2 | 4.2 | 0.2 | 3865387 |
| Total Antimony (Sb) | ug/L | 0.02 | 0.04 | 0.05 | 0.09 | 3864821 | 0.31 | 0.14 | 0.02 | 3865387 |
| Total Arsenic (As) | ug/L | 0.25 | 0.95 | 0.54 | 1.19 | 3864821 | 0.34 | 0.27 | 0.02 | 3865387 |
| Total Barium (Ba) | ug/L | 22.2 | 49.8 | 82.0 | 106 | 3864821 | 105 | 84.1 | 0.02 | 3865387 |
| Total Beryllium (Be) | ug/L | 0.03 | 0.12 | <0.01 | 0.01 | 3864821 | <0.01 | <0.01 | 0.01 | 3865387 |
| Total Bismuth (Bi) | ug/L | 0.006 | 0.016 | <0.005 | <0.005 | 3864821 | <0.005 | <0.005 | 0.005 | 3865387 |
| Total Boron (B) | ug/L | <50 | <50 | <50 | <50 | 3864821 | <50 | <50 | 50 | 3865387 |
| Total Cadmium (Cd) | ug/L | 0.025 | 0.108 | 0.018 | 0.048 | 3864821 | 0.171 | 0.107 | 0.005 | 3865387 |
| Total Chromium (Cr) | ug/L | 0.2 | 0.3 | <0.1 | 0.2 | 3864821 | 0.1 | <0.1 | 0.1 | 3865387 |
| Total Cobalt (Co) | ug/L | 0.099 | 0.274 | 0.108 | 0.359 | 3864821 | 0.015 | 0.017 | 0.005 | 3865387 |
| Total Copper (Cu) | ug/L | 0.64 | 1.74 | 0.83 | 1.55 | 3864821 | 0.49 | 0.47 | 0.05 | 3865387 |
| Total Iron (Fe) | ug/L | 469 | 438 | 500 | 341 | 3864821 | 11 | 26 | 1 | 3865387 |
| Total Lead (Pb) | ug/L | 1.73 | 2.60 | 0.443 | 1.34 | 3864821 | 0.072 | 0.043 | 0.005 | 3865387 |
| Total Lithium (Li) | ug/L | 2.8 | 0.9 | 2.7 | 6.4 | 3864821 | 4.0 | 4.3 | 0.5 | 3865387 |
| Total Manganese (Mn) | ug/L | 11.1 | 46.9 | 121 | 116 | 3864821 | 0.45 | 18.5 | 0.05 | 3865387 |
| Total Molybdenum (Mo) | ug/L | 0.10 | 0.14 | 0.32 | 1.12 | 3864821 | 4.25 | 1.21 | 0.05 | 3865387 |
| Total Nickel (Ni) | ug/L | 0.28 | 0.67 | 0.48 | 1.50 | 3864821 | 1.73 | 2.67 | 0.02 | 3865387 |
| Total Selenium (Se) | ug/L | <0.04 | 0.09 | 0.23 | 0.75 | 3864821 | 4.26 | 1.34 | 0.04 | 3865387 |
| Total Silicon (Si) | ug/L | 7390 | 5320 | 5090 | 6900 | 3864821 | 5010 | 3550 | 100 | 3865387 |
| Total Silver (Ag) | ug/L | <0.005 | 0.024 | <0.005 | <0.005 | 3864821 | <0.005 | <0.005 | 0.005 | 3865387 |
| Total Strontium (Sr) | ug/L | 33.0 | 69.3 | 255 | 424 | 3864821 | 341 | 239 | 0.05 | 3865387 |
| Total Thallium (Tl) | ug/L | 0.003 | 0.012 | 0.003 | 0.005 | 3864821 | <0.002 | 0.003 | 0.002 | 3865387 |
| Total Tin (Sn) | ug/L | <0.01 | <0.01 | <0.01 | <0.01 | 3864821 | <0.01 | <0.01 | 0.01 | 3865387 |
| Total Titanium (Ti) | ug/L | 3.6 | 8.8 | <0.5 | 2.7 | 3864821 | <0.5 | <0.5 | 0.5 | 3865387 |
| Total Uranium (U) | ug/L | 0.175 | 1.64 | 3.21 | 5.57 | 3864821 | 9.20 | 2.40 | 0.002 | 3865387 |
| Total Vanadium (V) | ug/L | 0.3 | 0.4 | <0.2 | 0.3 | 3864821 | 1.4 | <0.2 | 0.2 | 3865387 |
| Total Zinc (Zn) | ug/L | 7.1 | 10.8 | 6.1 | 8.0 | 3864821 | 10.1 | 14.4 | 0.1 | 3865387 |
| Total Zirconium (Zr) | ug/L | <0.1 | 0.2 | <0.1 | 0.2 | 3864821 | <0.1 | <0.1 | 0.1 | 3865387 |
| Total Calcium (Ca) | mg/L | 5.53 | 13.6 | 49.1 | 96.1 | 3858919 | 106 | 58.3 | 0.05 | 3858919 |
| Total Magnesium (Mg) | mg/L | 1.21 | 2.55 | 7.88 | 36.7 | 3858919 | 39.7 | 20.4 | 0.05 | 3858919 |
| Total Potassium (K) | mg/L | 0.22 | 0.57 | 1.48 | 1.68 | 3858919 | 1.10 | 0.86 | 0.05 | 3858919 |
| Total Sodium (Na) | mg/L | 2.33 | 1.78 | 3.14 | 7.16 | 3858919 | 2.70 | 2.71 | 0.05 | 3858919 |
| Total Sulphur (S) | mg/L | <10 | <10 | 11 | 44 | 3858919 | 44 | 27 | 10 | 3858919 |

RDL = Reportable Detection Limit

Maxxam Job #: B019097
 Report Date: 2010/04/09

ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
 Sampler Initials: DC

LOW LEVEL TOTAL METALS IN WATER (WATER)

| Maxxam ID | | T43967 | T43968 | T43969 | T43970 | T43971 | T43972 | | |
|------------------------------|-------|---------------------|---------------------|---------------------|---------------------|---------------------|------------|-----|----------|
| Sampling Date | | 2010/03/30 13:00 | 2010/03/30 13:20 | 2010/03/30 14:00 | 2010/03/30 14:20 | 2010/03/30 14:00 | 2010/03/30 | | |
| | Units | P4 | A1 | R6 | R3 | V6A | DUPLICATE | RDL | QC Batch |
| Calculated Parameters | | | | | | | | | |
| Total Hardness (CaCO3) | mg/L | 208 | 206 | 165 | 475 | 202 | 436 | 0.5 | 3858917 |

RDL = Reportable Detection Limit

Maxxam Job #: B019097
Report Date: 2010/04/09

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: DC

LOW LEVEL TOTAL METALS IN WATER (WATER)

| Maxxam ID | | T43967 | T43968 | T43969 | T43970 | T43971 | T43972 | | |
|------------------------------|-------|---------------------|---------------------|---------------------|---------------------|---------------------|------------|-------|----------|
| Sampling Date | | 2010/03/30 13:00 | 2010/03/30 13:20 | 2010/03/30 14:00 | 2010/03/30 14:20 | 2010/03/30 14:00 | 2010/03/30 | | |
| | Units | P4 | A1 | R6 | R3 | V6A | DUPLICATE | RDL | QC Batch |
| Total Metals by ICPMS | | | | | | | | | |
| Total Aluminum (Al) | ug/L | 9.2 | 31.5 | 4.2 | 1.7 | 115 | 1.5 | 0.2 | 3865387 |
| Total Antimony (Sb) | ug/L | 0.09 | 0.14 | 0.11 | 0.07 | 0.09 | 0.07 | 0.02 | 3865387 |
| Total Arsenic (As) | ug/L | 1.29 | 0.67 | 0.46 | 0.21 | 1.65 | 0.19 | 0.02 | 3865387 |
| Total Barium (Ba) | ug/L | 91.5 | 86.1 | 89.8 | 67.1 | 58.6 | 65.8 | 0.02 | 3865387 |
| Total Beryllium (Be) | ug/L | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | 0.01 | 3865387 |
| Total Bismuth (Bi) | ug/L | <0.005 | <0.005 | <0.005 | <0.005 | 0.006 | <0.005 | 0.005 | 3865387 |
| Total Boron (B) | ug/L | <50 | <50 | <50 | <50 | <50 | <50 | 50 | 3865387 |
| Total Cadmium (Cd) | ug/L | 0.053 | 0.020 | 0.014 | 0.046 | 0.101 | 0.047 | 0.005 | 3865387 |
| Total Chromium (Cr) | ug/L | <0.1 | 0.1 | <0.1 | <0.1 | 0.2 | <0.1 | 0.1 | 3865387 |
| Total Cobalt (Co) | ug/L | 0.033 | 0.050 | 0.021 | 2.51 | 0.288 | 2.35 | 0.005 | 3865387 |
| Total Copper (Cu) | ug/L | 0.58 | 0.71 | 0.34 | 0.36 | 1.15 | 0.34 | 0.05 | 3865387 |
| Total Iron (Fe) | ug/L | 23 | 57 | 124 | 78 | 228 | 71 | 1 | 3865387 |
| Total Lead (Pb) | ug/L | 0.068 | 0.198 | 0.025 | 0.036 | 3.85 | 0.111 | 0.005 | 3865387 |
| Total Lithium (Li) | ug/L | 4.6 | 4.1 | 2.7 | 9.2 | 2.0 | 9.1 | 0.5 | 3865387 |
| Total Manganese (Mn) | ug/L | 12.1 | 14.5 | 8.46 | 2210 | 22.5 | 2030 | 0.05 | 3865387 |
| Total Molybdenum (Mo) | ug/L | 2.12 | 1.11 | 1.42 | 0.50 | 0.18 | 0.48 | 0.05 | 3865387 |
| Total Nickel (Ni) | ug/L | 0.64 | 0.53 | 0.19 | 7.04 | 0.73 | 6.28 | 0.02 | 3865387 |
| Total Selenium (Se) | ug/L | 0.31 | 0.78 | 0.89 | 0.43 | 0.23 | 0.43 | 0.04 | 3865387 |
| Total Silicon (Si) | ug/L | 5140 | 5160 | 5160 | 5980 | 5780 | 5870 | 100 | 3865387 |
| Total Silver (Ag) | ug/L | <0.005 | <0.005 | <0.005 | <0.005 | 0.006 | <0.005 | 0.005 | 3865387 |
| Total Strontium (Sr) | ug/L | 244 | 195 | 146 | 407 | 262 | 399 | 0.05 | 3865387 |
| Total Thallium (Tl) | ug/L | 0.003 | <0.002 | <0.002 | 0.012 | 0.007 | 0.013 | 0.002 | 3865387 |
| Total Tin (Sn) | ug/L | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 3865387 |
| Total Titanium (Ti) | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | 2.8 | <0.5 | 0.5 | 3865387 |
| Total Uranium (U) | ug/L | 1.54 | 2.79 | 2.61 | 3.57 | 6.11 | 3.60 | 0.002 | 3865387 |
| Total Vanadium (V) | ug/L | <0.2 | <0.2 | <0.2 | <0.2 | 0.2 | <0.2 | 0.2 | 3865387 |
| Total Zinc (Zn) | ug/L | 2.1 | 3.6 | 0.6 | 50.3 | 43.9 | 46.2 | 0.1 | 3865387 |
| Total Zirconium (Zr) | ug/L | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 3865387 |
| Total Calcium (Ca) | mg/L | 56.0 | 60.6 | 48.0 | 138 | 59.1 | 127 | 0.05 | 3858919 |
| Total Magnesium (Mg) | mg/L | 16.5 | 13.2 | 11.0 | 31.5 | 13.2 | 29.2 | 0.05 | 3858919 |
| Total Potassium (K) | mg/L | 1.94 | 1.61 | 1.30 | 2.57 | 1.10 | 2.38 | 0.05 | 3858919 |
| Total Sodium (Na) | mg/L | 5.62 | 4.22 | 2.22 | 10.8 | 2.30 | 10.2 | 0.05 | 3858919 |
| Total Sulphur (S) | mg/L | 11 | 25 | <10 | 118 | 23 | 108 | 10 | 3858919 |

RDL = Reportable Detection Limit

Maxxam Job #: B019097
Report Date: 2010/04/09

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: DC

| | |
|-----------|-------|
| Package 1 | 1.3°C |
| Package 2 | 2.3°C |

Each temperature is the average of up to three cooler temperatures taken at receipt

General Comments

Sample T43962-: Ion Balance: NC = Not Calculable due to low ion sum [< 3 meq/L].

Sample T43961-: Ion Balance: NC = Not Calculable due to low ion sum [< 3 meq/L].

Maxxam Job #: B019097
Report Date: 2010/04/09

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: DC

QUALITY ASSURANCE REPORT

| QC Batch | Parameter | Date | Matrix Spike | | Spiked Blank | | Method Blank | | RPD | |
|----------|-----------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|--------------------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | Units | Value (%) | QC Limits |
| 3859039 | Conductivity | 2010/04/03 | | | 101 | 80 - 120 | <1 | uS/cm | 0.5 | 20 |
| 3859040 | Alkalinity (Total as CaCO3) | 2010/04/05 | NC | 80 - 120 | 96 | 80 - 120 | 0.8, RDL=0.5 | mg/L | 1.5 | 20 |
| 3859040 | Alkalinity (PP as CaCO3) | 2010/04/05 | | | | | <0.5 | mg/L | NC | 20 |
| 3859040 | Bicarbonate (HCO3) | 2010/04/05 | | | | | 0.9, RDL=0.5 | mg/L | 1.5 | 20 |
| 3859040 | Carbonate (CO3) | 2010/04/05 | | | | | <0.5 | mg/L | NC | 20 |
| 3859040 | Hydroxide (OH) | 2010/04/05 | | | | | <0.5 | mg/L | NC | 20 |
| 3859293 | Total Suspended Solids | 2010/04/05 | | | 100 | 80 - 120 | <1 | mg/L | | |
| 3859294 | Total Dissolved Solids | 2010/04/06 | 116 | 80 - 120 | 98 | 80 - 120 | <10 | mg/L | 1.7 ⁽¹⁾ | 20 |
| 3859472 | Fluoride (F) | 2010/04/05 | 90 | 80 - 120 | 102 | 80 - 120 | <0.01 | mg/L | 1.6 | 20 |
| 3860632 | Total Phosphorus (P) | 2010/04/06 | 98 | 80 - 120 | 94 | 80 - 120 | <0.005 | mg/L | 0.1 | 20 |
| 3862217 | Total Suspended Solids | 2010/04/06 | | | 99 | 80 - 120 | <1 | mg/L | | |
| 3863064 | Alkalinity (Total as CaCO3) | 2010/04/06 | NC | 80 - 120 | 100 | 80 - 120 | 0.7, RDL=0.5 | mg/L | 3.6 | 20 |
| 3863064 | Alkalinity (PP as CaCO3) | 2010/04/06 | | | | | <0.5 | mg/L | NC | 20 |
| 3863064 | Bicarbonate (HCO3) | 2010/04/06 | | | | | 0.9, RDL=0.5 | mg/L | 3.6 | 20 |
| 3863064 | Carbonate (CO3) | 2010/04/06 | | | | | <0.5 | mg/L | NC | 20 |
| 3863064 | Hydroxide (OH) | 2010/04/06 | | | | | <0.5 | mg/L | NC | 20 |
| 3863065 | Dissolved Chloride (Cl) | 2010/04/05 | NC | 80 - 120 | 103 | 80 - 120 | <0.5 | mg/L | NC | 20 |
| 3863072 | Dissolved Sulphate (SO4) | 2010/04/05 | NC | 80 - 120 | 102 | 80 - 120 | <0.5 | mg/L | 0.09 | 20 |
| 3864476 | Nitrate plus Nitrite (N) | 2010/04/06 | 95 | 80 - 120 | 105 | 80 - 120 | <0.02 | mg/L | 0.3 | 25 |
| 3864514 | Nitrite (N) | 2010/04/06 | 100 | 80 - 120 | 107 | 80 - 120 | <0.005 | mg/L | NC | 20 |
| 3864519 | Dissolved Arsenic (As) | 2010/04/07 | 103 | 80 - 120 | 97 | 80 - 120 | <0.02 | ug/L | 2.7 | 20 |
| 3864519 | Dissolved Beryllium (Be) | 2010/04/07 | 110 | 80 - 120 | 103 | 80 - 120 | <0.01 | ug/L | NC | 20 |
| 3864519 | Dissolved Cadmium (Cd) | 2010/04/07 | 110 | 80 - 120 | 102 | 80 - 120 | <0.005 | ug/L | NC | 20 |
| 3864519 | Dissolved Chromium (Cr) | 2010/04/07 | 99 | 80 - 120 | 102 | 80 - 120 | <0.1 | ug/L | NC | 20 |
| 3864519 | Dissolved Cobalt (Co) | 2010/04/07 | 101 | 80 - 120 | 101 | 80 - 120 | <0.005 | ug/L | 5.8 | 20 |
| 3864519 | Dissolved Copper (Cu) | 2010/04/07 | 100 | 80 - 120 | 103 | 80 - 120 | <0.05 | ug/L | 1 | 20 |
| 3864519 | Dissolved Lead (Pb) | 2010/04/07 | 104 | 80 - 120 | 109 | 80 - 120 | <0.005 | ug/L | 0.3 | 20 |
| 3864519 | Dissolved Lithium (Li) | 2010/04/07 | 105 | 80 - 120 | 105 | 80 - 120 | <0.5 | ug/L | NC | 20 |
| 3864519 | Dissolved Nickel (Ni) | 2010/04/07 | 99 | 80 - 120 | 101 | 80 - 120 | <0.02 | ug/L | 18.4 | 20 |
| 3864519 | Dissolved Selenium (Se) | 2010/04/07 | 108 | 80 - 120 | 100 | 80 - 120 | <0.04 | ug/L | NC | 20 |
| 3864519 | Dissolved Uranium (U) | 2010/04/07 | 105 | 80 - 120 | 108 | 80 - 120 | <0.002 | ug/L | 0.7 | 20 |
| 3864519 | Dissolved Vanadium (V) | 2010/04/07 | 100 | 80 - 120 | 97 | 80 - 120 | <0.2 | ug/L | NC | 20 |
| 3864519 | Dissolved Zinc (Zn) | 2010/04/07 | 113 | 80 - 120 | 98 | 80 - 120 | <0.1 | ug/L | 4.6 | 20 |
| 3864519 | Dissolved Aluminum (Al) | 2010/04/07 | | | | | <0.2 | ug/L | 0.8 | 20 |
| 3864519 | Dissolved Antimony (Sb) | 2010/04/07 | | | | | <0.02 | ug/L | NC | 20 |
| 3864519 | Dissolved Barium (Ba) | 2010/04/07 | | | | | <0.02 | ug/L | 0.7 | 20 |
| 3864519 | Dissolved Bismuth (Bi) | 2010/04/07 | | | | | <0.005 | ug/L | NC | 20 |
| 3864519 | Dissolved Boron (B) | 2010/04/07 | | | | | <50 | ug/L | NC | 20 |
| 3864519 | Dissolved Iron (Fe) | 2010/04/07 | | | | | <1 | ug/L | 1.2 | 20 |

Maxxam Job #: B019097
Report Date: 2010/04/09

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: DC

QUALITY ASSURANCE REPORT

| QC Batch | Parameter | Date | Matrix Spike | | Spiked Blank | | Method Blank | | RPD | |
|----------|---------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | Units | Value (%) | QC Limits |
| 3864519 | Dissolved Manganese (Mn) | 2010/04/07 | | | | | <0.05 | ug/L | 1.4 | 20 |
| 3864519 | Dissolved Molybdenum (Mo) | 2010/04/07 | | | | | <0.05 | ug/L | 1.4 | 20 |
| 3864519 | Dissolved Silicon (Si) | 2010/04/07 | | | | | <100 | ug/L | 2.4 | 20 |
| 3864519 | Dissolved Silver (Ag) | 2010/04/07 | | | | | <0.005 | ug/L | NC | 20 |
| 3864519 | Dissolved Strontium (Sr) | 2010/04/07 | | | | | <0.05 | ug/L | 0.2 | 20 |
| 3864519 | Dissolved Thallium (Tl) | 2010/04/07 | | | | | <0.002 | ug/L | NC | 20 |
| 3864519 | Dissolved Tin (Sn) | 2010/04/07 | | | | | <0.01 | ug/L | NC | 20 |
| 3864519 | Dissolved Titanium (Ti) | 2010/04/07 | | | | | <0.5 | ug/L | NC | 20 |
| 3864519 | Dissolved Zirconium (Zr) | 2010/04/07 | | | | | <0.1 | ug/L | NC | 20 |
| 3864821 | Total Arsenic (As) | 2010/04/08 | 109 | 80 - 120 | 102 | 80 - 120 | <0.02 | ug/L | 15.3 | 20 |
| 3864821 | Total Beryllium (Be) | 2010/04/08 | 117 | 80 - 120 | 104 | 80 - 120 | <0.01 | ug/L | NC | 20 |
| 3864821 | Total Cadmium (Cd) | 2010/04/08 | 112 | 80 - 120 | 102 | 80 - 120 | <0.005 | ug/L | NC | 20 |
| 3864821 | Total Chromium (Cr) | 2010/04/08 | 108 | 80 - 120 | 107 | 80 - 120 | <0.1 | ug/L | NC | 20 |
| 3864821 | Total Cobalt (Co) | 2010/04/08 | 109 | 80 - 120 | 106 | 80 - 120 | <0.005 | ug/L | 6.2 | 20 |
| 3864821 | Total Copper (Cu) | 2010/04/08 | 113 | 80 - 120 | 109 | 80 - 120 | <0.05 | ug/L | 1.1 | 20 |
| 3864821 | Total Lead (Pb) | 2010/04/08 | 111 | 80 - 120 | 108 | 80 - 120 | <0.005 | ug/L | 3.1 | 20 |
| 3864821 | Total Lithium (Li) | 2010/04/08 | 116 | 80 - 120 | 105 | 80 - 120 | <0.5 | ug/L | 0.9 | 20 |
| 3864821 | Total Nickel (Ni) | 2010/04/08 | 111 | 80 - 120 | 105 | 80 - 120 | <0.02 | ug/L | 3.4 | 20 |
| 3864821 | Total Selenium (Se) | 2010/04/08 | 114 | 80 - 120 | 104 | 80 - 120 | <0.04 | ug/L | NC | 20 |
| 3864821 | Total Uranium (U) | 2010/04/08 | 112 | 80 - 120 | 106 | 80 - 120 | <0.002 | ug/L | 6.0 | 20 |
| 3864821 | Total Vanadium (V) | 2010/04/08 | 108 | 80 - 120 | 100 | 80 - 120 | <0.2 | ug/L | NC | 20 |
| 3864821 | Total Zinc (Zn) | 2010/04/08 | NC | 80 - 120 | 110 | 80 - 120 | <0.1 | ug/L | 17.8 | 20 |
| 3864821 | Total Aluminum (Al) | 2010/04/08 | | | | | <0.2 | ug/L | 6.7 | 20 |
| 3864821 | Total Antimony (Sb) | 2010/04/08 | | | | | <0.02 | ug/L | NC | 20 |
| 3864821 | Total Barium (Ba) | 2010/04/08 | | | | | <0.02 | ug/L | 2.2 | 20 |
| 3864821 | Total Bismuth (Bi) | 2010/04/08 | | | | | <0.005 | ug/L | NC | 20 |
| 3864821 | Total Boron (B) | 2010/04/08 | | | | | <50 | ug/L | NC | 20 |
| 3864821 | Total Iron (Fe) | 2010/04/08 | | | | | <1 | ug/L | 8.2 | 20 |
| 3864821 | Total Manganese (Mn) | 2010/04/08 | | | | | <0.05 | ug/L | 3.0 | 20 |
| 3864821 | Total Molybdenum (Mo) | 2010/04/08 | | | | | <0.05 | ug/L | NC | 20 |
| 3864821 | Total Silicon (Si) | 2010/04/08 | | | | | <100 | ug/L | 2.6 | 20 |
| 3864821 | Total Silver (Ag) | 2010/04/08 | | | | | <0.005 | ug/L | NC | 20 |
| 3864821 | Total Strontium (Sr) | 2010/04/08 | | | | | <0.05 | ug/L | 2.4 | 20 |
| 3864821 | Total Thallium (Tl) | 2010/04/08 | | | | | <0.002 | ug/L | NC | 20 |
| 3864821 | Total Tin (Sn) | 2010/04/08 | | | | | <0.01 | ug/L | NC | 20 |
| 3864821 | Total Titanium (Ti) | 2010/04/08 | | | | | <0.5 | ug/L | 7.1 | 20 |
| 3864821 | Total Zirconium (Zr) | 2010/04/08 | | | | | <0.1 | ug/L | NC | 20 |
| 3864913 | Dissolved Arsenic (As) | 2010/04/07 | 103 | 80 - 120 | 101 | 80 - 120 | <0.02 | ug/L | 2.3 | 20 |
| 3864913 | Dissolved Beryllium (Be) | 2010/04/07 | 111 | 80 - 120 | 104 | 80 - 120 | <0.01 | ug/L | NC | 20 |

Maxxam Job #: B019097
 Report Date: 2010/04/09

ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
 Sampler Initials: DC

QUALITY ASSURANCE REPORT

| QC Batch | Parameter | Date | Matrix Spike | | Spiked Blank | | Method Blank | | RPD | |
|----------|------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | Units | Value (%) | QC Limits |
| 3864913 | Dissolved Cadmium (Cd) | 2010/04/07 | 99 | 80 - 120 | 94 | 80 - 120 | <0.005 | ug/L | 11.6 | 20 |
| 3864913 | Dissolved Chromium (Cr) | 2010/04/07 | 111 | 80 - 120 | 112 | 80 - 120 | <0.1 | ug/L | NC | 20 |
| 3864913 | Dissolved Cobalt (Co) | 2010/04/07 | 110 | 80 - 120 | 111 | 80 - 120 | <0.005 | ug/L | 5.7 | 20 |
| 3864913 | Dissolved Copper (Cu) | 2010/04/07 | 111 | 80 - 120 | 117 | 80 - 120 | <0.05 | ug/L | 4.1 | 20 |
| 3864913 | Dissolved Lead (Pb) | 2010/04/07 | 103 | 80 - 120 | 104 | 80 - 120 | <0.005 | ug/L | 2.9 | 20 |
| 3864913 | Dissolved Lithium (Li) | 2010/04/07 | 107 | 80 - 120 | 104 | 80 - 120 | <0.5 | ug/L | 3.4 | 20 |
| 3864913 | Dissolved Nickel (Ni) | 2010/04/07 | 110 | 80 - 120 | 112 | 80 - 120 | <0.02 | ug/L | 1.0 | 20 |
| 3864913 | Dissolved Selenium (Se) | 2010/04/07 | 107 | 80 - 120 | 103 | 80 - 120 | <0.04 | ug/L | 6.8 | 20 |
| 3864913 | Dissolved Uranium (U) | 2010/04/07 | 111 | 80 - 120 | 107 | 80 - 120 | <0.002 | ug/L | 0.5 | 20 |
| 3864913 | Dissolved Vanadium (V) | 2010/04/07 | 110 | 80 - 120 | 106 | 80 - 120 | <0.2 | ug/L | NC | 20 |
| 3864913 | Dissolved Zinc (Zn) | 2010/04/07 | 110 | 80 - 120 | 116 | 80 - 120 | <0.1 | ug/L | 6.3 | 20 |
| 3864913 | Dissolved Aluminum (Al) | 2010/04/07 | | | | | <0.2 | ug/L | 5.0 | 20 |
| 3864913 | Dissolved Antimony (Sb) | 2010/04/07 | | | | | <0.02 | ug/L | NC | 20 |
| 3864913 | Dissolved Barium (Ba) | 2010/04/07 | | | | | <0.02 | ug/L | 0.8 | 20 |
| 3864913 | Dissolved Bismuth (Bi) | 2010/04/07 | | | | | <0.005 | ug/L | NC | 20 |
| 3864913 | Dissolved Boron (B) | 2010/04/07 | | | | | <50 | ug/L | NC | 20 |
| 3864913 | Dissolved Iron (Fe) | 2010/04/07 | | | | | <1 | ug/L | 0.3 | 20 |
| 3864913 | Dissolved Manganese (Mn) | 2010/04/07 | | | | | <0.05 | ug/L | 2.1 | 20 |
| 3864913 | Dissolved Molybdenum (Mo) | 2010/04/07 | | | | | <0.05 | ug/L | 0.2 | 20 |
| 3864913 | Dissolved Silicon (Si) | 2010/04/07 | | | | | <100 | ug/L | 0.7 | 20 |
| 3864913 | Dissolved Silver (Ag) | 2010/04/07 | | | | | <0.005 | ug/L | NC | 20 |
| 3864913 | Dissolved Strontium (Sr) | 2010/04/07 | | | | | <0.05 | ug/L | 0.2 | 20 |
| 3864913 | Dissolved Thallium (Tl) | 2010/04/07 | | | | | <0.002 | ug/L | NC | 20 |
| 3864913 | Dissolved Tin (Sn) | 2010/04/07 | | | | | <0.01 | ug/L | NC | 20 |
| 3864913 | Dissolved Titanium (Ti) | 2010/04/07 | | | | | <0.5 | ug/L | NC | 20 |
| 3864913 | Dissolved Zirconium (Zr) | 2010/04/07 | | | | | <0.1 | ug/L | NC | 20 |
| 3864932 | Dissolved Organic Carbon (C) | 2010/04/06 | NC | 80 - 120 | 93 | 80 - 120 | <0.5 | mg/L | NC | 20 |
| 3864933 | Total Organic Carbon (C) | 2010/04/06 | 97 | 80 - 120 | 93 | 80 - 120 | <0.5 | mg/L | NC | 20 |
| 3864951 | Dissolved Chloride (Cl) | 2010/04/06 | 101 | 80 - 120 | 96 | 80 - 120 | <0.5 | mg/L | 2.8 | 20 |
| 3864953 | Ammonia (N) | 2010/04/06 | 94 | 80 - 120 | 87 | 80 - 120 | <0.005 | mg/L | NC | 20 |
| 3865387 | Total Arsenic (As) | 2010/04/07 | 110 | 80 - 120 | 96 | 80 - 120 | <0.02 | ug/L | 9.5 | 20 |
| 3865387 | Total Beryllium (Be) | 2010/04/07 | 109 | 80 - 120 | 97 | 80 - 120 | <0.01 | ug/L | NC | 20 |
| 3865387 | Total Cadmium (Cd) | 2010/04/07 | 111 | 80 - 120 | 101 | 80 - 120 | <0.005 | ug/L | 7.1 | 20 |
| 3865387 | Total Chromium (Cr) | 2010/04/07 | 117 | 80 - 120 | 106 | 80 - 120 | <0.1 | ug/L | NC | 20 |
| 3865387 | Total Cobalt (Co) | 2010/04/07 | 115 | 80 - 120 | 105 | 80 - 120 | <0.005 | ug/L | NC | 20 |
| 3865387 | Total Copper (Cu) | 2010/04/07 | 112 | 80 - 120 | 108 | 80 - 120 | <0.05 | ug/L | 8.5 | 20 |
| 3865387 | Total Lead (Pb) | 2010/04/07 | 114 | 80 - 120 | 106 | 80 - 120 | <0.005 | ug/L | 1.8 | 20 |
| 3865387 | Total Lithium (Li) | 2010/04/07 | 119 | 80 - 120 | 105 | 80 - 120 | <0.5 | ug/L | 7.1 | 20 |
| 3865387 | Total Nickel (Ni) | 2010/04/07 | 113 | 80 - 120 | 104 | 80 - 120 | <0.02 | ug/L | 5.4 | 20 |

Maxxam Job #: B019097
Report Date: 2010/04/09

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: DC

QUALITY ASSURANCE REPORT

| QC Batch | Parameter | Date | Matrix Spike | | Spiked Blank | | Method Blank | | RPD | |
|----------|--------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | Units | Value (%) | QC Limits |
| 3865387 | Total Selenium (Se) | 2010/04/07 | 118 | 80 - 120 | 101 | 80 - 120 | <0.04 | ug/L | 0.6 | 20 |
| 3865387 | Total Uranium (U) | 2010/04/07 | NC | 80 - 120 | 110 | 80 - 120 | <0.002 | ug/L | 6.2 | 20 |
| 3865387 | Total Vanadium (V) | 2010/04/07 | 117 | 80 - 120 | 101 | 80 - 120 | <0.2 | ug/L | 3.9 | 20 |
| 3865387 | Total Zinc (Zn) | 2010/04/07 | NC | 80 - 120 | 102 | 80 - 120 | <0.1 | ug/L | 3.7 | 20 |
| 3865387 | Total Aluminum (Al) | 2010/04/07 | | | | | <0.2 | ug/L | 7.2 | 20 |
| 3865387 | Total Antimony (Sb) | 2010/04/07 | | | | | <0.02 | ug/L | 7.4 | 20 |
| 3865387 | Total Barium (Ba) | 2010/04/07 | | | | | <0.02 | ug/L | 7.5 | 20 |
| 3865387 | Total Bismuth (Bi) | 2010/04/07 | | | | | <0.005 | ug/L | NC | 20 |
| 3865387 | Total Boron (B) | 2010/04/07 | | | | | <50 | ug/L | NC | 20 |
| 3865387 | Total Iron (Fe) | 2010/04/07 | | | | | <1 | ug/L | 0.2 | 20 |
| 3865387 | Total Manganese (Mn) | 2010/04/07 | | | | | <0.05 | ug/L | 1.9 | 20 |
| 3865387 | Total Molybdenum (Mo) | 2010/04/07 | | | | | <0.05 | ug/L | 5.3 | 20 |
| 3865387 | Total Silicon (Si) | 2010/04/07 | | | | | <100 | ug/L | 1.5 | 20 |
| 3865387 | Total Silver (Ag) | 2010/04/07 | | | | | <0.005 | ug/L | NC | 20 |
| 3865387 | Total Strontium (Sr) | 2010/04/07 | | | | | <0.05 | ug/L | 5.1 | 20 |
| 3865387 | Total Thallium (Tl) | 2010/04/07 | | | | | <0.002 | ug/L | NC | 20 |
| 3865387 | Total Tin (Sn) | 2010/04/07 | | | | | <0.01 | ug/L | NC | 20 |
| 3865387 | Total Titanium (Ti) | 2010/04/07 | | | | | <0.5 | ug/L | NC | 20 |
| 3865387 | Total Zirconium (Zr) | 2010/04/07 | | | | | <0.1 | ug/L | NC | 20 |
| 3866628 | Weak Acid Dissoc. Cyanide (CN) | 2010/04/08 | 99 | 80 - 120 | 101 | 80 - 120 | <0.0005 | mg/L | NC | 20 |
| 3867858 | Dissolved Organic Carbon (C) | 2010/04/07 | NC | 80 - 120 | 101 | 80 - 120 | <0.5 | mg/L | 1.5 | 20 |
| 3868112 | Dissolved Sulphate (SO4) | 2010/04/07 | NC | 80 - 120 | 93 | 80 - 120 | <0.5 | mg/L | 2.4 | 20 |
| 3869079 | Total Organic Carbon (C) | 2010/04/07 | 85 | 80 - 120 | 101 | 80 - 120 | <0.5 | mg/L | | |
| 3872928 | Dissolved Organic Carbon (C) | 2010/04/07 | NC | 80 - 120 | 104 | 80 - 120 | <0.5 | mg/L | NC | 20 |
| 3873088 | Total Organic Carbon (C) | 2010/04/08 | 106 | 80 - 120 | 93 | 80 - 120 | <0.5 | mg/L | 3.8 | 20 |

N/A = Not Applicable

RDL = Reportable Detection Limit

RPD = Relative Percent Difference

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.


NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.

NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

(1) - Fine particulates <1u passing through filter.

MAXXAM JOB # **BC1097**

ANALYSIS REQ



08311935

COMPANY NAME: Access Consulting Group

CLIENT PROJECT NO.: SFN-07-01

COMPANY ADDRESS: #3 Calcite Business Center, 151 Industrial Rd, Whitehorse, YT Y1A 2V3

TEL.: (867) 668-6463

E-MAIL: paul@accessconsulting.ca, david@accessconsulting.ca

FAX: (867) 668-6680

SAMPLER NAME (PRINT): Durand Cornett

PROJECT MANAGER: David Petkovich

LABORATORY CONTACT: Kim Webber

| FIELD SAMPLE ID | MATRIX | | | | SAMPLING | | | # CONTAINERS | General (Alk, EC, pH) | TSS (TDS) | Total Metals (Low Level) | Dissolved Metals (Low Level) | DOC | Anions (Cl, F, NH3, NO2, NO3, SO4) | Cyanide | Phosphorus, TOC |
|-----------------|-------------|---------------|----------------|------|----------|----------|-------|--------------|-----------------------|-----------|--------------------------|------------------------------|-----|------------------------------------|---------|-----------------|
| | GROUNDWATER | SURFACE WATER | DRINKING WATER | SOIL | OTHER | DATE | TIME | | | | | | | | | |
| 1 FC | | | | | | DD/MM/YY | | | | | | | | | | |
| 2 VR | X | | | | | 30/03/10 | 9:20 | 8 | X | X | X | X | X | X | X | X |
| 3 R1 | X | | | | | 30/03/10 | 9:45 | 8 | X | X | X | X | X | X | X | X |
| 4 VW1 | X | | | | | 30/03/10 | 10:45 | 8 | X | X | X | X | X | X | X | X |
| 5 VW2 | X | | | | | 30/03/10 | 11:15 | 8 | X | X | X | X | X | X | X | X |
| 6 P1 | X | | | | | 30/03/10 | 11:45 | 8 | X | X | X | X | X | X | X | X |
| 7 P4 | X | | | | | 30/03/10 | 12:30 | 8 | X | X | X | X | X | X | X | X |
| 8 A1 | X | | | | | 30/03/10 | 13:00 | 8 | X | X | X | X | X | X | X | X |
| 9 R6 | X | | | | | 30/03/10 | 13:20 | 8 | X | X | X | X | X | X | X | X |
| 10 R3 | X | | | | | 30/03/10 | 14:00 | 8 | X | X | X | X | X | X | X | X |
| 11 V6A | X | | | | | 30/03/10 | 14:20 | 8 | X | X | X | X | X | X | X | X |
| 12 DUPLICATE | X | | | | | 30/03/10 | 14:00 | 8 | X | X | X | X | X | X | X | X |
| | X | | | | | 30/03/10 | | 8 | X | X | X | X | X | X | X | X |

TAT (Turnaround Time) LESS THAN 5 DAY TAT MUST HAVE PRIOR APPROVAL

PO NUMBER OR QUOTE NUMBER: SFN-09-02

SPECIAL DETECTION LIMITS / CONTAMINANT TYPE: AS per previous SFN-07-01/ SFN-09-02 sampling

ACCOUNTING CONTACT: Colette MacMillon

RELINQUISHED BY SAMPLER: Durand Cornett

DATE: 31/03/2010

TIME: 10:00

RECEIVED BY:

RECEIVED BY:

RECEIVED BY LABORATORY: *mwj*

ARRIVAL TEMPERATURE °C: 1, 2, 1, 3, 2, 2

DUE DATE:

LOG IN CHECK:

JARS USED:

* Some exceptions apply - please contact laboratory

STANDARD 5 BUSINESS DAYS

RUSH 3 BUSINESS DAYS

RUSH 2 BUSINESS DAYS

URGENT 1 BUSINESS DAY

OTHER BUSINESS DAYS

CUSTODY RECORD

Page 19 of 19

08:30



A MEMBER OF ALEXCO RESOURCE GROUP

3 Calcite Business Centre, 151 Industrial Road, Whitehorse, Yukon Y1A 2V3

PHONE (867) 668-6463 FAX (867) 667-6680

WWW.ACCESSCONSULTING.CA

MEMORANDUM

TO: File

CC: David Petkovich
Scott Keeseey

FROM: Durand Cornett

RE: **May 2010 water sampling at Faro (Pelly River Interim Aquatic Ecosystem Monitoring Plan)**

PROJECT #: SFN-09-02

DATE: June 3, 2010

The following is a brief trip report for the monthly water sampling event in the area of the Anvil Range Mine for the month of May 2010.

In the late morning of May 18th, 2009 Durand Cornett and Catherine Henry (ACG) travelled from Whitehorse to Pelly Crossing where they picked up Michael Harper (SFN). These three constituted the field crew for the sampling event. They then drove to Faro arriving at 17:00.

On May 19th the field crew drove to the Faro Airport where they were scheduled to meet Ben Tanner of Trans North Helicopters. Ben arrived at 9:15 and after he fueled up the crew departed. Sites P1, P4, A1 R4 and R6 were accessed by helicopter. They landed back at the Airport at 11:15. The field crew then drove to sample site V8 (Vangorda downstream from the Faro town site). The crew then drove to the minesite arriving at the Admin building at 12:00. Catherine and Michael had to take Denison's safety orientation as it was their first times at the Faro Mine. After checking in and getting orientated the field crew sampled sites FC (inside the compound) and X14 (outside the compound). They then drove back to Pelly where the sampled station P5 and dropped off Michael Harper. Catherine and Durand then returned to Whitehorse, arriving at 19:30. Samples were prepped that evening.

In-situ measurements were taken with an YSI multi-meter. Six sample bottles were collected at each station with the following parameters being screened for:

- General (including Alkalinity, Conductivity and pH)
- TSS and TDS
- Total metals
- Cyanide
- Anions
- Phosphorus

Additionally 2 duplicate samples were prepared and tested. Duplicate 1 was sampled at station V8 and tested for Total Metals. Duplicate 2 was taken at X14 and tested for Cyanide. All 9 sets of water samples were shipped via Air North Cargo on May 20th to Maxxam Analytics in Burnaby, B.C. for analysis.

| Station | Northing | Easting |
|---------|-----------|-----------|
| P1 | 62.20786 | 133.356 |
| P4 | 62.46132 | 134.16 |
| A1 | 62.44574 | 134.123 |
| R6 | 62.42107 | 133.685 |
| R4 | 62.4209 | 133.687 |
| V8 | 62.221428 | 133.3669 |
| FC | 62.37258 | 133.35 |
| X14 | 62.35722 | 133.46722 |
| P5 | 63.9421 | 135.293 |

Weather Conditions:

- May 19th at 9:00. 6 degrees C. Mostly Cloudy, gusty winds.

Notable issues:

- Sample was collected at V8, but unsure if it is the former V8 site. UTM Coordinates taken with the sample are: Zone 8. Easting 0584914 Northing 6900085.

Photographs:



Plate 1: Water sampling at Station A1



Plate 2: Anvil and Rose Creeks Meet

If you have any questions about this report, please contact Durand Cornett of Access Consulting Group.

Your P.O. #: SFN-09-02
Your Project #: SFN-07-01
Your C.O.C. #: 08313263

Attention: David Petkovich
ACCESS CONSULTING GROUP
#3 Calcite
151 Industrial Road
WHITEHORSE, YT
CANADA Y1A 3C8

Report Date: 2010/06/01

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B035821
Received: 2010/05/21, 14:00

Sample Matrix: Water
Samples Received: 11

| Analyses | Quantity | Date | Date | Laboratory Method | Analytical Method |
|--|----------|------------|------------|--------------------|----------------------|
| | | Extracted | Analyzed | | |
| Alkalinity - Water | 4 | 2010/05/29 | 2010/05/30 | BRN SOP-00264 R4.0 | Based on SM2320B |
| Alkalinity - Water | 5 | 2010/05/29 | 2010/05/31 | BRN SOP-00264 R4.0 | Based on SM2320B |
| Chloride by Automated Colourimetry | 8 | N/A | 2010/05/22 | BRN-SOP 00234 R3.0 | Based on EPA 325.2 |
| Chloride by Automated Colourimetry | 1 | N/A | 2010/05/25 | BRN-SOP 00234 R3.0 | Based on EPA 325.2 |
| Cyanide (Total) | 10 | N/A | 2010/05/27 | BRN SOP-00226 R2.0 | Based on EPA 9012AR1 |
| Conductance - water | 4 | N/A | 2010/05/30 | BRN SOP-00264 R2.0 | Based on SM-2510B |
| Conductance - water | 5 | N/A | 2010/05/31 | BRN SOP-00264 R2.0 | Based on SM-2510B |
| Fluoride - Mining Clients | 9 | N/A | 2010/05/28 | BRN SOP-00225 R1.0 | Based SM - 4500 F C |
| Hardness Total (calculated as CaCO3) | 10 | N/A | 2010/06/01 | | |
| Na, K, Ca, Mg, S by CRC ICPMS (total) | 10 | N/A | 2010/06/01 | BRN SOP-00206 | Based on EPA 200.8 |
| Elements by ICPMS Low Level (total) | 10 | N/A | 2010/06/01 | BRN SOP-00206 | Based on EPA 200.8 |
| Ammonia-N | 9 | N/A | 2010/05/27 | | |
| Nitrate + Nitrite (N) | 9 | N/A | 2010/05/25 | | Based on USEPA 353.2 |
| Nitrite (N) by CFA | 7 | N/A | 2010/05/25 | BRN SOP-00233 R1.0 | EPA 353.2 |
| Nitrite (N) by CFA | 2 | N/A | 2010/05/26 | BRN SOP-00233 R1.0 | EPA 353.2 |
| Nitrogen - Nitrate (as N) | 7 | N/A | 2010/05/26 | BBY6SOP-00010 | Based on EPA 353.2 |
| Nitrogen - Nitrate (as N) | 2 | N/A | 2010/05/27 | BBY6SOP-00010 | Based on EPA 353.2 |
| pH Water | 2 | N/A | 2010/05/29 | BRN SOP-00264 R4.0 | Based on SM-4500H+B |
| pH Water | 2 | N/A | 2010/05/30 | BRN SOP-00264 R4.0 | Based on SM-4500H+B |
| pH Water | 5 | N/A | 2010/05/31 | BRN SOP-00264 R4.0 | Based on SM-4500H+B |
| Sulphate by Automated Colourimetry | 8 | N/A | 2010/05/22 | BRN-SOP 00243 R1.0 | Based on EPA 375.4 |
| Sulphate by Automated Colourimetry | 1 | N/A | 2010/05/25 | BRN-SOP 00243 R1.0 | Based on EPA 375.4 |
| Total Dissolved Solids (Filt. Residue) | 9 | N/A | 2010/05/27 | BRN SOP 00276 R4.0 | SM 2540C |
| Total Phosphorus | 9 | N/A | 2010/05/26 | BRN SOP-00236 R4.0 | SM 4500 |
| Total Suspended Solids | 9 | N/A | 2010/05/25 | BRN SOP-00277 R5.0 | Based on SM - 2540 D |

* Results relate only to the items tested.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

KIMBERLEY WEBBER, BBY Customer Service
Email: kim.webber@maxxamanalytics.com
Phone# (604) 638-3254

Maxxam Job #: B035821
Report Date: 2010/06/01

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: DC

-2-

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 2

Maxxam Job #: B035821
Report Date: 2010/06/01

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: DC

RESULTS OF CHEMICAL ANALYSES OF WATER

| Maxxam ID | | U28876 | | U28877 | U28878 | U28879 | | U28880 | | |
|------------------------------|----------|---------------------|--------|---------------------|---------------------|---------------------|----------|---------------------|--------|----------|
| Sampling Date | | 2010/05/19 09:30 | | 2010/05/19 10:10 | 2010/05/19 10:20 | 2010/05/19 10:45 | | 2010/05/19 10:55 | | |
| | Units | P1 | RDL | P4 | A1 | R6 | QC Batch | R4 | RDL | QC Batch |
| Misc. Inorganics | | | | | | | | | | |
| Fluoride (F) | mg/L | 0.13 | 0.05 | 0.11 | 0.08 | 0.07 | 3990624 | 0.09 | 0.01 | 3990624 |
| ANIONS | | | | | | | | | | |
| Nitrite (N) | mg/L | <0.005 | 0.005 | <0.005 | <0.005 | <0.005 | 3981142 | <0.005 | 0.005 | 3981142 |
| Calculated Parameters | | | | | | | | | | |
| Nitrate (N) | mg/L | <0.02 | 0.02 | 0.11 | 0.06 | 0.05 | 3974032 | 0.06 | 0.02 | 3974032 |
| Misc. Inorganics | | | | | | | | | | |
| Cyanide + Thiocyanate | mg/L | <0.0005 | 0.0005 | 0.0005 | 0.0009 | 0.0005 | 3987421 | 0.0014 | 0.0005 | 3987421 |
| Alkalinity (Total as CaCO3) | mg/L | 87 | 0.5 | 86 | 75 | 79 | 3991653 | 68 | 0.5 | 3991653 |
| Alkalinity (PP as CaCO3) | mg/L | <0.5 | 0.5 | <0.5 | <0.5 | <0.5 | 3991653 | <0.5 | 0.5 | 3991653 |
| Bicarbonate (HCO3) | mg/L | 110 | 0.5 | 100 | 92 | 96 | 3991653 | 83 | 0.5 | 3991653 |
| Carbonate (CO3) | mg/L | <0.5 | 0.5 | <0.5 | <0.5 | <0.5 | 3991653 | <0.5 | 0.5 | 3991653 |
| Hydroxide (OH) | mg/L | <0.5 | 0.5 | <0.5 | <0.5 | <0.5 | 3991653 | <0.5 | 0.5 | 3991653 |
| Anions | | | | | | | | | | |
| Dissolved Sulphate (SO4) | mg/L | 48 | 0.5 | 54 | 45 | 14 | 3977923 | 71 | 0.5 | 3982440 |
| Dissolved Chloride (Cl) | mg/L | <0.5 | 0.5 | 0.7 | <0.5 | 0.5 | 3977922 | <0.5 | 0.5 | 3982415 |
| Nutrients | | | | | | | | | | |
| Ammonia (N) | mg/L | <0.005 | 0.005 | 0.028 | 0.009 | 0.023 | 3985540 | 0.016 | 0.005 | 3985540 |
| Nitrate plus Nitrite (N) | mg/L | <0.02 | 0.02 | 0.11 | 0.06 | 0.05 | 3981042 | 0.06 | 0.02 | 3981042 |
| Total Phosphorus (P) | mg/L | 0.054 | 0.005 | 0.057 | 0.111 | 0.085 | 3981863 | 0.025 | 0.005 | 3981863 |
| Physical Properties | | | | | | | | | | |
| Conductivity | uS/cm | 252 | 1 | 253 | 233 | 189 | 3991654 | 273 | 1 | 3991654 |
| pH | pH Units | 8.1 | | 8.0 | 7.9 | 8.0 | 3991655 | 8.0 | | 3991655 |
| Physical Properties | | | | | | | | | | |
| Total Suspended Solids | mg/L | 35 | 4 | 23 | 93 | 62 | 3978820 | 19 | 4 | 3978820 |
| Total Dissolved Solids | mg/L | 170 | 10 | 160 | 160 | 120 | 3982429 | 190 | 10 | 3982429 |

RDL = Reportable Detection Limit

Maxxam Job #: B035821
Report Date: 2010/06/01

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: DC

RESULTS OF CHEMICAL ANALYSES OF WATER

| Maxxam ID | | U28881 | U28882 | | U28883 | U28884 | U28886 | | |
|------------------------------|----------|---------------------|---------------------|----------|---------------------|---------------------|------------|--------|----------|
| Sampling Date | | 2010/05/19 11:30 | 2010/05/19 12:30 | | 2010/05/19 13:00 | 2010/05/19 16:10 | 2010/05/19 | | |
| | Units | V8 | FC | QC Batch | X14 | P5 | DUP2 | RDL | QC Batch |
| Misc. Inorganics | | | | | | | | | |
| Fluoride (F) | mg/L | 0.11 | 0.05 | 3990624 | 0.09 | 0.11 | | 0.01 | 3990624 |
| ANIONS | | | | | | | | | |
| Nitrite (N) | mg/L | <0.005 | <0.005 | 3981142 | 0.007 | <0.005 | | 0.005 | 3985190 |
| Calculated Parameters | | | | | | | | | |
| Nitrate (N) | mg/L | 0.15 | <0.02 | 3974032 | 0.04 | <0.02 | | 0.02 | 3974032 |
| Misc. Inorganics | | | | | | | | | |
| Cyanide + Thiocyanate | mg/L | <0.0005 | 0.0005 | 3987421 | 0.0022 | <0.0005 | 0.0022 | 0.0005 | 3987421 |
| Alkalinity (Total as CaCO3) | mg/L | 94 | 9.1 | 3991653 | 64 | 96 | | 0.5 | 3991653 |
| Alkalinity (PP as CaCO3) | mg/L | <0.5 | <0.5 | 3991653 | <0.5 | <0.5 | | 0.5 | 3991653 |
| Bicarbonate (HCO3) | mg/L | 110 | 11 | 3991653 | 78 | 120 | | 0.5 | 3991653 |
| Carbonate (CO3) | mg/L | <0.5 | <0.5 | 3991653 | <0.5 | <0.5 | | 0.5 | 3991653 |
| Hydroxide (OH) | mg/L | <0.5 | <0.5 | 3991653 | <0.5 | <0.5 | | 0.5 | 3991653 |
| Anions | | | | | | | | | |
| Dissolved Sulphate (SO4) | mg/L | 62 | <0.5 | 3977923 | 80 | 45 | | 0.5 | 3977923 |
| Dissolved Chloride (Cl) | mg/L | 0.8 | <0.5 | 3977922 | 0.6 | 0.6 | | 0.5 | 3977922 |
| Nutrients | | | | | | | | | |
| Ammonia (N) | mg/L | <0.005 | <0.005 | 3985540 | 0.038 | 0.006 | | 0.005 | 3985540 |
| Nitrate plus Nitrite (N) | mg/L | 0.15 | <0.02 | 3981042 | 0.05 | <0.02 | | 0.02 | 3981042 |
| Total Phosphorus (P) | mg/L | 0.090 | 0.008 | 3981863 | 0.020 | 0.032 | | 0.005 | 3981863 |
| Physical Properties | | | | | | | | | |
| Conductivity | uS/cm | 293 | 22 | 3991654 | 277 | 263 | | 1 | 3991654 |
| pH | pH Units | 8.0 | 7.1 | 3991655 | 7.9 | 8.1 | | | 3991655 |
| Physical Properties | | | | | | | | | |
| Total Suspended Solids | mg/L | 87 | 6 | 3978820 | 15 | 20 | | 4 | 3978820 |
| Total Dissolved Solids | mg/L | 180 | 16 | 3982429 | 190 | 170 | | 10 | 3982429 |

RDL = Reportable Detection Limit

Maxxam Job #: B035821
 Report Date: 2010/06/01

ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
 Sampler Initials: DC

LOW LEVEL TOTAL METALS IN WATER (WATER)

| Maxxam ID | | U28876 | U28877 | U28878 | U28879 | U28880 | U28881 | U28882 | U28883 | U28884 | U28885 | | |
|------------------------------|-------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------|-----|----------|
| Sampling Date | | 2010/05/19 09:30 | 2010/05/19 10:10 | 2010/05/19 10:20 | 2010/05/19 10:45 | 2010/05/19 10:55 | 2010/05/19 11:30 | 2010/05/19 12:30 | 2010/05/19 13:00 | 2010/05/19 16:10 | 2010/05/19 | | |
| | Units | P1 | P4 | A1 | R6 | R4 | V8 | FC | X14 | P5 | DUP1 | RDL | QC Batch |
| Calculated Parameters | | | | | | | | | | | | | |
| Total Hardness (CaCO3) | mg/L | 130 | 129 | 118 | 97.4 | 127 | 157 | 8.7 | 127 | 128 | 151 | 0.5 | 3973998 |

RDL = Reportable Detection Limit

Maxxam Job #: B035821
 Report Date: 2010/06/01

 ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

 Your P.O. #: SFN-09-02
 Sampler Initials: DC

LOW LEVEL TOTAL METALS IN WATER (WATER)

| Maxxam ID | | U28876 | U28877 | U28878 | U28879 | U28880 | U28881 | U28882 | U28883 | U28884 | U28885 | | |
|------------------------------|-------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------|-------|----------|
| Sampling Date | | 2010/05/19 09:30 | 2010/05/19 10:10 | 2010/05/19 10:20 | 2010/05/19 10:45 | 2010/05/19 10:55 | 2010/05/19 11:30 | 2010/05/19 12:30 | 2010/05/19 13:00 | 2010/05/19 16:10 | | | |
| | Units | P1 | P4 | A1 | R6 | R4 | V8 | FC | X14 | P5 | DUP1 | RDL | QC Batch |
| Total Metals by ICPMS | | | | | | | | | | | | | |
| Total Aluminum (Al) | ug/L | 258 | 271 | 1030 | 771 | 241 | 902 | 198 | 215 | 259 | 810 | 0.2 | 3994878 |
| Total Antimony (Sb) | ug/L | 0.23 | 0.18 | 0.23 | 0.21 | 0.15 | 0.13 | <0.02 | 0.09 | 0.17 | 0.13 | 0.02 | 3994878 |
| Total Arsenic (As) | ug/L | 0.99 | 1.01 | 2.16 | 2.04 | 1.12 | 1.58 | 0.21 | 1.08 | 0.86 | 1.53 | 0.02 | 3994878 |
| Total Barium (Ba) | ug/L | 84.8 | 68.8 | 101 | 74.1 | 61.4 | 65.7 | 14.7 | 38.5 | 74.2 | 63.9 | 0.02 | 3994878 |
| Total Beryllium (Be) | ug/L | 0.03 | 0.03 | 0.08 | 0.08 | 0.03 | 0.06 | 0.06 | 0.02 | 0.03 | 0.07 | 0.01 | 3994878 |
| Total Bismuth (Bi) | ug/L | <0.005 | 0.007 | 0.018 | 0.014 | 0.009 | 0.016 | 0.005 | 0.008 | <0.005 | 0.014 | 0.005 | 3994878 |
| Total Boron (B) | ug/L | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | 50 | 3994878 |
| Total Cadmium (Cd) | ug/L | 0.298 | 0.168 | 0.173 | 0.152 | 0.097 | 0.140 | 0.045 | 0.063 | 0.170 | 0.141 | 0.005 | 3994878 |
| Total Chromium (Cr) | ug/L | 0.3 | 0.6 | 2.5 | 1.7 | 0.6 | 1.9 | 0.2 | 0.4 | 0.3 | 1.6 | 0.1 | 3994878 |
| Total Cobalt (Co) | ug/L | 0.455 | 0.387 | 1.64 | 0.985 | 1.97 | 1.30 | 0.105 | 1.50 | 0.307 | 1.21 | 0.005 | 3994878 |
| Total Copper (Cu) | ug/L | 2.92 | 2.72 | 5.58 | 4.42 | 2.98 | 4.10 | 1.53 | 2.03 | 2.60 | 3.95 | 0.05 | 3994878 |
| Total Iron (Fe) | ug/L | 792 | 621 | 2080 | 2200 | 1010 | 1600 | 249 | 991 | 631 | 1450 | 1 | 3994878 |
| Total Lead (Pb) | ug/L | 0.713 | 0.757 | 4.02 | 1.55 | 4.89 | 5.53 | 1.05 | 4.81 | 0.522 | 5.39 | 0.005 | 3994878 |
| Total Lithium (Li) | ug/L | 2.8 | 3.2 | 4.5 | 2.7 | 3.7 | 4.1 | 1.2 | 3.7 | 3.0 | 4.0 | 0.5 | 3994878 |
| Total Manganese (Mn) | ug/L | 53.7 | 89.3 | 524 | 149 | 1290 | 93.4 | 11.6 | 891 | 42.7 | 87.9 | 0.05 | 3994878 |
| Total Molybdenum (Mo) | ug/L | 0.92 | 0.82 | 0.43 | 0.62 | 0.49 | 0.42 | <0.05 | 0.93 | 0.88 | 0.36 | 0.05 | 3994878 |
| Total Nickel (Ni) | ug/L | 6.62 | 4.74 | 6.53 | 3.15 | 4.29 | 4.74 | 0.58 | 3.29 | 4.76 | 4.34 | 0.02 | 3994878 |
| Total Selenium (Se) | ug/L | 0.84 | 0.65 | 0.35 | 0.42 | 0.24 | 0.45 | <0.04 | 0.14 | 0.66 | 0.47 | 0.04 | 3994878 |
| Total Silicon (Si) | ug/L | 3110 | 3450 | 4950 | 4470 | 3870 | 4830 | 4050 | 3560 | 3340 | 4710 | 100 | 3994878 |
| Total Silver (Ag) | ug/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 3994878 |
| Total Strontium (Sr) | ug/L | 142 | 131 | 110 | 80.4 | 129 | 147 | 17.3 | 127 | 161 | 145 | 0.05 | 3994878 |
| Total Thallium (Tl) | ug/L | 0.009 | 0.011 | 0.036 | 0.018 | 0.032 | 0.035 | 0.008 | 0.031 | 0.009 | 0.033 | 0.002 | 3994878 |
| Total Tin (Sn) | ug/L | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 3994878 |
| Total Titanium (Ti) | ug/L | 5.1 | 8.9 | 46.2 | 28.1 | 7.6 | 28.8 | 4.2 | 6.2 | 4.0 | 24.1 | 0.5 | 3994878 |
| Total Uranium (U) | ug/L | 1.25 | 1.26 | 1.33 | 1.40 | 0.936 | 2.90 | 0.325 | 0.867 | 1.01 | 2.91 | 0.002 | 3994878 |
| Total Vanadium (V) | ug/L | 1.0 | 0.9 | 3.4 | 3.8 | 0.5 | 1.9 | <0.2 | 0.2 | 0.7 | 1.6 | 0.2 | 3994878 |
| Total Zinc (Zn) | ug/L | 25.8 | 14.2 | 32.4 | 11.4 | 46.7 | 28.4 | 7.6 | 39.8 | 14.5 | 27.6 | 0.1 | 3994878 |
| Total Zirconium (Zr) | ug/L | 0.2 | 0.2 | 0.4 | 0.4 | 0.2 | 0.4 | 0.7 | 0.2 | 0.2 | 0.4 | 0.1 | 3994878 |
| Total Calcium (Ca) | mg/L | 33.3 | 34.6 | 34.1 | 26.7 | 37.5 | 37.9 | 2.62 | 37.4 | 33.6 | 36.6 | 0.05 | 3975089 |
| Total Magnesium (Mg) | mg/L | 11.3 | 10.2 | 7.90 | 7.49 | 8.15 | 15.0 | 0.53 | 8.24 | 10.7 | 14.5 | 0.05 | 3975089 |
| Total Potassium (K) | mg/L | 0.83 | 1.08 | 1.47 | 1.16 | 1.15 | 1.02 | 0.56 | 1.16 | 1.24 | 0.99 | 0.05 | 3975089 |
| Total Sodium (Na) | mg/L | 1.42 | 1.79 | 2.10 | 1.21 | 2.41 | 2.06 | 0.97 | 2.65 | 2.25 | 2.00 | 0.05 | 3975089 |
| Total Sulphur (S) | mg/L | 16 | 17 | 15 | <10 | 22 | 20 | <10 | 25 | 15 | 19 | 10 | 3975089 |

RDL = Reportable Detection Limit

Maxxam Job #: B035821
Report Date: 2010/06/01

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: DC

| | |
|-----------|-------|
| Package 1 | 6.3°C |
|-----------|-------|

Each temperature is the average of up to three cooler temperatures taken at receipt

General Comments

Maxxam Job #: B035821
Report Date: 2010/06/01

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: DC

QUALITY ASSURANCE REPORT

| QC Batch | Parameter | Date | Matrix Spike | | Spiked Blank | | Method Blank | | RPD | |
|----------|-----------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | Units | Value (%) | QC Limits |
| 3977922 | Dissolved Chloride (Cl) | 2010/05/22 | NC | 80 - 120 | 104 | 80 - 120 | <0.5 | mg/L | NC | 20 |
| 3977923 | Dissolved Sulphate (SO4) | 2010/05/22 | NC | 80 - 120 | 100 | 80 - 120 | <0.5 | mg/L | 9.2 | 20 |
| 3978820 | Total Suspended Solids | 2010/05/25 | 104 | 80 - 120 | 101 | 80 - 120 | <4 | mg/L | NC | 25 |
| 3981042 | Nitrate plus Nitrite (N) | 2010/05/25 | NC | 80 - 120 | 102 | 80 - 120 | <0.02 | mg/L | NC | 25 |
| 3981142 | Nitrite (N) | 2010/05/25 | 99 | 80 - 120 | 104 | 80 - 120 | <0.005 | mg/L | NC | 20 |
| 3981863 | Total Phosphorus (P) | 2010/05/26 | 101 | 80 - 120 | 88 | 80 - 120 | <0.005 | mg/L | 1.5 | 20 |
| 3982415 | Dissolved Chloride (Cl) | 2010/05/25 | 113 | 80 - 120 | 103 | 80 - 120 | <0.5 | mg/L | 0.5 | 20 |
| 3982429 | Total Dissolved Solids | 2010/05/27 | 110 | 80 - 120 | 96 | 80 - 120 | <10 | mg/L | 2.4 | 20 |
| 3982440 | Dissolved Sulphate (SO4) | 2010/05/25 | | | 109 | 80 - 120 | <0.5 | mg/L | 5.0 | 20 |
| 3985190 | Nitrite (N) | 2010/05/26 | 95 | 80 - 120 | 103 | 80 - 120 | <0.005 | mg/L | NC | 20 |
| 3985540 | Ammonia (N) | 2010/05/27 | NC | 80 - 120 | 98 | 80 - 120 | <0.005 | mg/L | NC | 20 |
| 3987421 | Cyanide + Thiocyanate | 2010/05/27 | 103 | 80 - 120 | 96 | 80 - 120 | <0.0005 | mg/L | NC | 20 |
| 3990624 | Fluoride (F) | 2010/05/28 | 93 | 80 - 120 | 100 | 80 - 120 | <0.01 | mg/L | 2.3 | 20 |
| 3991653 | Alkalinity (Total as CaCO3) | 2010/05/30 | 107 | 80 - 120 | 100 | 80 - 120 | <0.5 | mg/L | 0.9 | 20 |
| 3991653 | Alkalinity (PP as CaCO3) | 2010/05/30 | | | | | <0.5 | mg/L | NC | 20 |
| 3991653 | Bicarbonate (HCO3) | 2010/05/30 | | | | | <0.5 | mg/L | 0.9 | 20 |
| 3991653 | Carbonate (CO3) | 2010/05/30 | | | | | <0.5 | mg/L | NC | 20 |
| 3991653 | Hydroxide (OH) | 2010/05/30 | | | | | <0.5 | mg/L | NC | 20 |
| 3991654 | Conductivity | 2010/05/30 | | | 100 | 80 - 120 | <1 | uS/cm | 0.7 | 20 |
| 3994878 | Total Arsenic (As) | 2010/06/01 | 97 | 80 - 120 | 104 | 80 - 120 | <0.02 | ug/L | 2.7 | 20 |
| 3994878 | Total Beryllium (Be) | 2010/06/01 | 101 | 80 - 120 | 107 | 80 - 120 | <0.01 | ug/L | NC | 20 |
| 3994878 | Total Cadmium (Cd) | 2010/06/01 | 100 | 80 - 120 | 104 | 80 - 120 | <0.005 | ug/L | 2.3 | 20 |
| 3994878 | Total Chromium (Cr) | 2010/06/01 | 98 | 80 - 120 | 104 | 80 - 120 | <0.1 | ug/L | NC | 20 |
| 3994878 | Total Cobalt (Co) | 2010/06/01 | 96 | 80 - 120 | 107 | 80 - 120 | <0.005 | ug/L | 1.5 | 20 |
| 3994878 | Total Copper (Cu) | 2010/06/01 | 96 | 80 - 120 | 108 | 80 - 120 | <0.05 | ug/L | 2.4 | 20 |
| 3994878 | Total Lead (Pb) | 2010/06/01 | 96 | 80 - 120 | 107 | 80 - 120 | <0.005 | ug/L | 1.5 | 20 |
| 3994878 | Total Lithium (Li) | 2010/06/01 | 97 | 80 - 120 | 104 | 80 - 120 | <0.5 | ug/L | 11.6 | 20 |
| 3994878 | Total Nickel (Ni) | 2010/06/01 | NC | 80 - 120 | 107 | 80 - 120 | <0.02 | ug/L | 9.8 | 20 |
| 3994878 | Total Selenium (Se) | 2010/06/01 | 103 | 80 - 120 | 108 | 80 - 120 | <0.04 | ug/L | 0.9 | 20 |
| 3994878 | Total Uranium (U) | 2010/06/01 | 103 | 80 - 120 | 110 | 80 - 120 | <0.002 | ug/L | 3.3 | 20 |
| 3994878 | Total Vanadium (V) | 2010/06/01 | 99 | 80 - 120 | 103 | 80 - 120 | <0.2 | ug/L | 4.8 | 20 |
| 3994878 | Total Zinc (Zn) | 2010/06/01 | NC | 80 - 120 | 106 | 80 - 120 | <0.1 | ug/L | 7.3 | 20 |
| 3994878 | Total Aluminum (Al) | 2010/06/01 | | | | | <0.2 | ug/L | 5.2 | 20 |
| 3994878 | Total Antimony (Sb) | 2010/06/01 | | | | | <0.02 | ug/L | 3.6 | 20 |
| 3994878 | Total Barium (Ba) | 2010/06/01 | | | | | <0.02 | ug/L | 2.6 | 20 |
| 3994878 | Total Bismuth (Bi) | 2010/06/01 | | | | | <0.005 | ug/L | NC | 20 |
| 3994878 | Total Boron (B) | 2010/06/01 | | | | | <50 | ug/L | NC | 20 |
| 3994878 | Total Iron (Fe) | 2010/06/01 | | | | | <1 | ug/L | 4.8 | 20 |
| 3994878 | Total Manganese (Mn) | 2010/06/01 | | | | | <0.05 | ug/L | 3.5 | 20 |

Maxxam Job #: B035821
Report Date: 2010/06/01

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: DC

QUALITY ASSURANCE REPORT

| QC Batch | Parameter | Date | Matrix Spike | | Spiked Blank | | Method Blank | | RPD | |
|----------|-----------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | Units | Value (%) | QC Limits |
| 3994878 | Total Molybdenum (Mo) | 2010/06/01 | | | | | <0.05 | ug/L | 5.1 | 20 |
| 3994878 | Total Silicon (Si) | 2010/06/01 | | | | | <100 | ug/L | 2.9 | 20 |
| 3994878 | Total Silver (Ag) | 2010/06/01 | | | | | <0.005 | ug/L | NC | 20 |
| 3994878 | Total Strontium (Sr) | 2010/06/01 | | | | | <0.05 | ug/L | 1.8 | 20 |
| 3994878 | Total Thallium (Tl) | 2010/06/01 | | | | | <0.002 | ug/L | NC | 20 |
| 3994878 | Total Tin (Sn) | 2010/06/01 | | | | | <0.01 | ug/L | NC | 20 |
| 3994878 | Total Titanium (Ti) | 2010/06/01 | | | | | <0.5 | ug/L | 2.8 | 20 |
| 3994878 | Total Zirconium (Zr) | 2010/06/01 | | | | | <0.1 | ug/L | NC | 20 |

N/A = Not Applicable

RPD = Relative Percent Difference

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.

NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.



A MEMBER OF ALEXCO RESOURCE GROUP

3 Calcite Business Centre, 151 Industrial Road, Whitehorse, Yukon Y1A 2V3

PHONE (867) 668-6463 FAX (867) 667-6680

WWW.ACCESSCONSULTING.CA

MEMORANDUM

TO: File

CC: David Petkovich
Scott Keeseey

FROM: Durand Cornett

RE: **August 2010 water sampling at Faro (Pelly River Interim Aquatic Ecosystem Monitoring Plan)**

PROJECT #: SFN-09-02

DATE: August 9, 2010

The following is a brief trip report for the monthly water sampling event in the area of the Anvil Range Mine for the month of August 2010.

On August 2nd, 2010 Durand Cornett and Melissa Bacon (Access) travelled from Whitehorse to Faro. Selkirk First Nation was conducting the Youth Mentoring Program (YMP) in association with Access Consulting and were to join for the sampling event this month. Access staff met Ellie Marcotte along with four SFN Youth and a film crew in Faro on the evening of August 2nd.

On August 3rd the field crew and YMP drove to the Faro Airport where they were scheduled to meet Brian Parsons of Trans North Helicopters. Brian arrived at 9:00 and gave a safety orientation. The field crew flew to sites P4 and A1 with the first group of the YMP. They went back to the airport and members of the YMP switched. Sites R4 and R6 were then visited. After one more switch the remaining YMP members, the crew visited site P1 and did a flyby of the minesite as the film crew acquired some shots of the area. They returned to the Faro Airport at 12:20 and then drove to the minesite. The YMP took Denison's safety orientation before entering the property. Sites X14 and FC were visited. The YMP then departed and Access sampled the last site, V8 on the way out of Faro.

In-situ measurements were taken with an YSI multi-meter. Six sample bottles were collected at each station with the following parameters being screened for:

- General (including Alkalinity, Conductivity and pH)
- TSS and TDS
- Total metals
- Cyanide
- Anions
- Phosphorus

Additionally 2 duplicate samples were prepared and tested. Duplicate 1 was sampled at station X14 and tested for Total Metals. Duplicate 2 was taken at V8 and tested for Anions. Field blanks were also taken at X14 (Total Metals) and V8 (Anions). A Trip Blank was carried to all stations and returned to Maxxam. All 8 sets of water samples, duplicates and blanks were shipped via Air North Cargo on August 5th to Maxxam Analytics in Burnaby, B.C. for analysis.

| Station | Northing | Easting |
|---------|-----------|-----------|
| P1 | 62.20786 | 133.356 |
| P4 | 62.46132 | 134.16 |
| A1 | 62.44574 | 134.123 |
| R6 | 62.42107 | 133.685 |
| R4 | 62.4209 | 133.687 |
| V8 | 62.221428 | 133.3669 |
| FC | 62.37258 | 133.35 |
| X14 | 62.35722 | 133.46722 |

Weather Conditions:

- August 3rd at 11:40. 22 Degrees C. Sunny and clear.
- August 3rd at 17:00. 24 Degrees C. Partially cloudy. No precipitation.
-

Notable issues:

- Sample was collected at V8, but unsure if it is the former V8 site. UTM Coordinates taken with the sample are: Zone 8. Easting 0584914 Northing 6900085.
- Generally very low water level on the Pelly River.

Photographs:



Plate 1: Station P4 (downstream)



Plate 2: SFN Youth and Crew at site FC

If you have any questions about this report, please contact Durand Cornett of Access Consulting Group.

Your P.O. #: SFN-09-02
Your Project #: SFN-07-01
Your C.O.C. #: 08320212, 08320215

Attention: David Petkovich
ACCESS CONSULTING GROUP
#3 Calcite
151 Industrial Road
WHITEHORSE, YT
CANADA Y1A 3C8

Report Date: 2010/08/20

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B067935
Received: 2010/08/06, 14:25

Sample Matrix: Water
Samples Received: 13

| Analyses | Quantity | Date | Date | Laboratory Method | Analytical Method |
|--|----------|------------|------------|--------------------|----------------------|
| | | Extracted | Analyzed | | |
| Alkalinity - Water | 8 | 2010/08/09 | 2010/08/09 | BRN SOP-00264 R4.0 | Based on SM2320B |
| Chloride by Automated Colourimetry | 10 | N/A | 2010/08/10 | BRN-SOP 00234 R3.0 | Based on EPA 325.2 |
| Cyanide (Total) | 8 | N/A | 2010/08/12 | BRN SOP-00226 R2.0 | Based on EPA 9012AR1 |
| Cyanide WAD (weak acid dissociable) | 8 | N/A | 2010/08/11 | BRN SOP-00227 R3.0 | Based on SM-4500CN I |
| Conductance - water | 8 | N/A | 2010/08/09 | BRN SOP-00264 R2.0 | Based on SM-2510B |
| Fluoride - Mining Clients | 10 | N/A | 2010/08/10 | BRN SOP-00225 R1.0 | Based SM - 4500 F C |
| Hardness Total (calculated as CaCO3) | 11 | N/A | 2010/08/13 | | |
| Na, K, Ca, Mg, S by CRC ICPMS (total) | 11 | N/A | 2010/08/13 | BRN SOP-00206 | Based on EPA 200.8 |
| Elements by ICPMS Low Level (total) | 11 | N/A | 2010/08/12 | BRN SOP-00206 | Based on EPA 200.8 |
| Ammonia-N | 9 | N/A | 2010/08/09 | BBY6SOP-00044 | Based on EPA 350.1 |
| Ammonia-N | 1 | N/A | 2010/08/11 | BBY6SOP-00044 | Based on EPA 350.1 |
| Nitrate + Nitrite (N) | 9 | N/A | 2010/08/12 | | Based on USEPA 353.2 |
| Nitrate + Nitrite (N) | 1 | N/A | 2010/08/18 | | Based on USEPA 353.2 |
| Nitrite (N) by CFA | 10 | N/A | 2010/08/12 | BRN SOP-00233 R1.0 | EPA 353.2 |
| Nitrogen - Nitrate (as N) | 10 | N/A | 2010/08/13 | BBY6SOP-00010 | Based on EPA 353.2 |
| pH Water | 8 | N/A | 2010/08/09 | BRN SOP-00264 R4.0 | Based on SM-4500H+B |
| Sulphate by Automated Colourimetry | 10 | N/A | 2010/08/10 | BRN-SOP 00243 R1.0 | Based on EPA 375.4 |
| Total Dissolved Solids (Filt. Residue) | 8 | N/A | 2010/08/12 | BRN SOP 00276 R4.0 | SM 2540C |
| Total Phosphorus | 8 | N/A | 2010/08/10 | BRN SOP-00236 R4.0 | SM 4500 |
| Total Suspended Solids-LowLevel | 8 | N/A | 2010/08/10 | BRN SOP-00277 R5.0 | Based on SM-2540 D |

* Results relate only to the items tested.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

KIMBERLEY WEBBER, BBY Customer Service
Email: kim.webber@maxxamanalytics.com
Phone# (604) 638-3254

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1

Maxxam Job #: B067935
 Report Date: 2010/08/20

 ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

 Your P.O. #: SFN-09-02
 Sampler Initials: DC

RESULTS OF CHEMICAL ANALYSES OF WATER

| Maxxam ID | | W03953 | W03954 | W03955 | W03956 | W03957 | W03958 | | |
|--|----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------|----------|
| Sampling Date | | 2010/08/03 | 2010/08/03 | 2010/08/03 | 2010/08/03 | 2010/08/03 | 2010/08/03 | | |
| | Units | P1 | P4 | A1 | R6 | R4 | V8 | RDL | QC Batch |
| Misc. Inorganics | | | | | | | | | |
| Fluoride (F) | mg/L | 0.13 | 0.21 | 0.11 | 0.08 | 0.12 | 0.15 | 0.01 | 4166692 |
| ANIONS | | | | | | | | | |
| Nitrite (N) | mg/L | <0.005 ⁽¹⁾ | <0.005 ⁽¹⁾ | <0.005 ⁽¹⁾ | <0.005 ⁽¹⁾ | <0.005 ⁽¹⁾ | <0.005 ⁽¹⁾ | 0.005 | 4178348 |
| Calculated Parameters | | | | | | | | | |
| Nitrate (N) | mg/L | <0.02 | <0.02 | <0.02 | 0.02 | 0.04 | 0.14 | 0.02 | 4162804 |
| Misc. Inorganics | | | | | | | | | |
| Weak Acid Dissoc. Cyanide (CN) | mg/L | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.0005 | 4172123 |
| Cyanide + Thiocyanate | mg/L | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.0005 | 4175419 |
| Alkalinity (Total as CaCO ₃) | mg/L | 140 | 160 | 130 | 160 | 120 | 160 | 0.5 | 4165495 |
| Alkalinity (PP as CaCO ₃) | mg/L | <0.5 | <0.5 | <0.5 | 0.9 | <0.5 | 2.4 | 0.5 | 4165495 |
| Bicarbonate (HCO ₃) | mg/L | 180 | 200 | 160 | 190 | 140 | 190 | 0.5 | 4165495 |
| Carbonate (CO ₃) | mg/L | <0.5 | <0.5 | <0.5 | 1.1 | <0.5 | 2.8 | 0.5 | 4165495 |
| Hydroxide (OH) | mg/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 4165495 |
| Anions | | | | | | | | | |
| Dissolved Sulphate (SO ₄) | mg/L | 61 | 47 | 40 | 21 | 64 | 100 | 0.5 | 4168629 |
| Dissolved Chloride (Cl) | mg/L | 1.3 | 0.7 | <0.5 | <0.5 | 0.5 | 0.7 | 0.5 | 4168618 |
| Nutrients | | | | | | | | | |
| Ammonia (N) | mg/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 4164042 |
| Nitrate plus Nitrite (N) | mg/L | <0.02 ⁽¹⁾ | <0.02 ⁽¹⁾ | <0.02 ⁽¹⁾ | 0.02 ⁽¹⁾ | 0.04 ⁽¹⁾ | 0.14 ⁽¹⁾ | 0.02 | 4176539 |
| Total Phosphorus (P) | mg/L | 0.021 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 0.005 | 4165557 |
| Physical Properties | | | | | | | | | |
| Conductivity | uS/cm | 372 | 369 | 305 | 298 | 335 | 467 | 1 | 4165494 |
| pH | pH Units | 8.17 | 8.24 | 8.25 | 8.30 | 8.16 | 8.35 | | 4165491 |
| Physical Properties | | | | | | | | | |
| Total Suspended Solids | mg/L | 3 | <1 | 1 | <1 | <1 | 2 | 1 | 4164801 |
| Total Dissolved Solids | mg/L | 210 | 210 | 170 | 170 | 210 | 300 | 10 | 4167369 |

RDL = Reportable Detection Limit

(1) - Sample analysed past recommended hold time

Maxxam Job #: B067935
Report Date: 2010/08/20

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: DC

RESULTS OF CHEMICAL ANALYSES OF WATER

| Maxxam ID | | W03959 | W03960 | | W03963 | | W03964 | | |
|--|----------|-----------------------|-----------------------|----------|-----------------------|----------|-----------------------|--------|----------|
| Sampling Date | | 2010/08/03 | 2010/08/03 | | 2010/08/03 | | 2010/08/03 | | |
| | Units | FC | X14 | QC Batch | FIELD BLANK 2 | QC Batch | DUP 2 | RDL | QC Batch |
| Misc. Inorganics | | | | | | | | | |
| Fluoride (F) | mg/L | 0.09 | 0.13 | 4166692 | <0.01 | 4166692 | 0.14 | 0.01 | 4166692 |
| ANIONS | | | | | | | | | |
| Nitrite (N) | mg/L | <0.005 ⁽¹⁾ | <0.005 ⁽¹⁾ | 4178348 | <0.005 ⁽¹⁾ | 4178348 | <0.005 ⁽¹⁾ | 0.005 | 4178348 |
| Calculated Parameters | | | | | | | | | |
| Nitrate (N) | mg/L | <0.02 | <0.02 | 4162804 | 0.36 | 4162804 | 0.14 | 0.02 | 4162804 |
| Misc. Inorganics | | | | | | | | | |
| Weak Acid Dissoc. Cyanide (CN) | mg/L | <0.0005 | <0.0005 | 4172123 | | | | 0.0005 | |
| Cyanide + Thiocyanate | mg/L | <0.0005 | <0.0005 | 4175419 | | | | 0.0005 | |
| Alkalinity (Total as CaCO ₃) | mg/L | 25 | 110 | 4165495 | | | | 0.5 | |
| Alkalinity (PP as CaCO ₃) | mg/L | <0.5 | <0.5 | 4165495 | | | | 0.5 | |
| Bicarbonate (HCO ₃) | mg/L | 30 | 140 | 4165495 | | | | 0.5 | |
| Carbonate (CO ₃) | mg/L | <0.5 | <0.5 | 4165495 | | | | 0.5 | |
| Hydroxide (OH) | mg/L | <0.5 | <0.5 | 4165495 | | | | 0.5 | |
| Anions | | | | | | | | | |
| Dissolved Sulphate (SO ₄) | mg/L | 1.5 | 57 | 4168629 | <0.5 | 4168629 | 100 | 0.5 | 4168629 |
| Dissolved Chloride (Cl) | mg/L | <0.5 | 0.6 | 4168618 | <0.5 | 4168618 | 0.8 | 0.5 | 4168618 |
| Nutrients | | | | | | | | | |
| Ammonia (N) | mg/L | <0.005 | 0.012 | 4164042 | <0.005 | 4172007 | 0.023 | 0.005 | 4164042 |
| Nitrate plus Nitrite (N) | mg/L | <0.02 ⁽¹⁾ | <0.02 ⁽¹⁾ | 4176539 | 0.36 ⁽¹⁾ | 4191165 | 0.14 ⁽¹⁾ | 0.02 | 4176539 |
| Total Phosphorus (P) | mg/L | <0.005 | <0.005 | 4165557 | | | | 0.005 | |
| Physical Properties | | | | | | | | | |
| Conductivity | uS/cm | 43 | 315 | 4165494 | | | | 1 | |
| pH | pH Units | 7.47 | 8.06 | 4165491 | | | | | |
| Physical Properties | | | | | | | | | |
| Total Suspended Solids | mg/L | <1 | <1 | 4164801 | | | | 1 | |
| Total Dissolved Solids | mg/L | 30 | 190 | 4167369 | | | | 10 | |

RDL = Reportable Detection Limit

(1) - Sample analysed past recommended hold time

Maxxam Job #: B067935
 Report Date: 2010/08/20

 ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

 Your P.O. #: SFN-09-02
 Sampler Initials: DC

LOW LEVEL TOTAL METALS IN WATER (WATER)

| Maxxam ID | | W03953 | W03954 | W03955 | W03956 | W03957 | W03958 | W03959 | | |
|------------------------------|-------|------------|------------|------------|------------|------------|------------|------------|-------|----------|
| Sampling Date | | 2010/08/03 | 2010/08/03 | 2010/08/03 | 2010/08/03 | 2010/08/03 | 2010/08/03 | 2010/08/03 | | |
| | Units | P1 | P4 | A1 | R6 | R4 | V8 | FC | RDL | QC Batch |
| Calculated Parameters | | | | | | | | | | |
| Total Hardness (CaCO3) | mg/L | 181 | 184 | 148 | 153 | 162 | 239 | 16.8 | 0.5 | 4162801 |
| Total Metals by ICPMS | | | | | | | | | | |
| Total Aluminum (Al) | ug/L | 38.3 | 34.4 | 19.0 | 16.6 | 7.1 | 21.5 | 41.0 | 0.2 | 4175323 |
| Total Antimony (Sb) | ug/L | 0.21 | 0.18 | 0.14 | 0.13 | 0.11 | 0.14 | 0.03 | 0.02 | 4175323 |
| Total Arsenic (As) | ug/L | 0.49 | 0.66 | 0.53 | 0.48 | 0.30 | 0.52 | 0.11 | 0.02 | 4175323 |
| Total Barium (Ba) | ug/L | 78.2 | 84.0 | 52.6 | 69.5 | 47.8 | 53.2 | 20.7 | 0.02 | 4175323 |
| Total Beryllium (Be) | ug/L | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 4175323 |
| Total Bismuth (Bi) | ug/L | 0.013 | 0.022 | 0.114 | <0.005 | 0.008 | <0.005 | <0.005 | 0.005 | 4175323 |
| Total Boron (B) | ug/L | <50 | <50 | <50 | <50 | <50 | <50 | <50 | 50 | 4175323 |
| Total Cadmium (Cd) | ug/L | 0.118 | 0.105 | 0.033 | 0.017 | 0.015 | 0.047 | 0.010 | 0.005 | 4175323 |
| Total Chromium (Cr) | ug/L | 0.3 | 0.3 | 0.4 | 0.5 | 0.4 | 0.1 | 0.1 | 0.1 | 4175323 |
| Total Cobalt (Co) | ug/L | 0.072 | 0.069 | 0.078 | 0.038 | 0.137 | 0.069 | 0.026 | 0.005 | 4175323 |
| Total Copper (Cu) | ug/L | 0.82 | 0.98 | 0.78 | 0.54 | 0.62 | 0.84 | 0.53 | 0.05 | 4175323 |
| Total Iron (Fe) | ug/L | 72 | 91 | 69 | 169 | 135 | 54 | 40 | 1 | 4175323 |
| Total Lead (Pb) | ug/L | 0.094 | 0.123 | 0.167 | 0.053 | 0.112 | 0.151 | 0.504 | 0.005 | 4175323 |
| Total Lithium (Li) | ug/L | 4.0 | 4.5 | 3.6 | 2.1 | 4.1 | 4.9 | 2.6 | 0.5 | 4175323 |
| Total Manganese (Mn) | ug/L | 22.2 | 28.8 | 36.5 | 12.9 | 150 | 7.85 | 1.59 | 0.05 | 4175323 |
| Total Molybdenum (Mo) | ug/L | 1.31 | 1.60 | 0.96 | 1.20 | 0.62 | 0.87 | 0.07 | 0.05 | 4175323 |
| Total Nickel (Ni) | ug/L | 2.68 | 1.96 | 0.87 | 0.40 | 1.18 | 1.11 | 0.32 | 0.02 | 4175323 |
| Total Selenium (Se) | ug/L | 0.85 | 0.61 | 0.50 | 0.67 | 0.43 | 0.57 | <0.04 | 0.04 | 4175323 |
| Total Silicon (Si) | ug/L | 2990 | 3530 | 4100 | 4070 | 3960 | 4710 | 6960 | 100 | 4175323 |
| Total Silver (Ag) | ug/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 4175323 |
| Total Strontium (Sr) | ug/L | 208 | 221 | 148 | 128 | 175 | 242 | 32.3 | 0.05 | 4175323 |
| Total Thallium (Tl) | ug/L | 0.006 | 0.008 | 0.010 | <0.002 | 0.025 | 0.016 | <0.002 | 0.002 | 4175323 |
| Total Tin (Sn) | ug/L | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 4175323 |
| Total Titanium (Ti) | ug/L | 0.7 | 0.8 | 0.9 | <0.5 | <0.5 | 0.6 | <0.5 | 0.5 | 4175323 |
| Total Uranium (U) | ug/L | 1.69 | 1.81 | 1.61 | 1.86 | 1.34 | 3.90 | 0.115 | 0.002 | 4175323 |
| Total Vanadium (V) | ug/L | 0.2 | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 0.2 | 0.2 | 4175323 |
| Total Zinc (Zn) | ug/L | 5.2 | 5.5 | 2.7 | 0.3 | 9.4 | 7.0 | 1.4 | 0.1 | 4175323 |
| Total Zirconium (Zr) | ug/L | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 4175323 |
| Total Calcium (Ca) | mg/L | 46.9 | 48.5 | 43.2 | 42.9 | 47.5 | 58.2 | 5.00 | 0.05 | 4162803 |
| Total Magnesium (Mg) | mg/L | 15.5 | 15.3 | 9.72 | 11.3 | 10.6 | 22.8 | 1.05 | 0.05 | 4162803 |
| Total Potassium (K) | mg/L | 0.78 | 1.24 | 1.35 | 1.11 | 1.20 | 0.96 | 0.16 | 0.05 | 4162803 |
| Total Sodium (Na) | mg/L | 1.79 | 3.25 | 2.71 | 1.84 | 3.30 | 3.23 | 2.10 | 0.05 | 4162803 |
| Total Sulphur (S) | mg/L | 23 | 18 | 15 | <10 | 24 | 37 | <10 | 10 | 4162803 |

RDL = Reportable Detection Limit

Maxxam Job #: B067935
 Report Date: 2010/08/20

ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
 Sampler Initials: DC

LOW LEVEL TOTAL METALS IN WATER (WATER)

| | | | | | | | | | | |
|------------------------------|--------------|------------|-----------------|--------------------------|-----------------|--------------|-----------------|-------------------|------------|-----------------|
| Maxxam ID | | W03960 | | W03961 | | W03962 | | W03977 | | |
| Sampling Date | | 2010/08/03 | | 2010/08/03 | | 2010/08/03 | | 2010/08/03 | | |
| | Units | X14 | QC Batch | FIELD BLANK 1 | QC Batch | DUP 1 | QC Batch | TRIP BLANK | RDL | QC Batch |
| Calculated Parameters | | | | | | | | | | |
| Total Hardness (CaCO3) | mg/L | 150 | 4162801 | <0.5 | 4162801 | 151 | 4162801 | <0.5 | 0.5 | 4162801 |

RDL = Reportable Detection Limit

Maxxam Job #: B067935
Report Date: 2010/08/20

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: DC

LOW LEVEL TOTAL METALS IN WATER (WATER)

| Maxxam ID | | W03960 | | W03961 | | W03962 | | W03977 | | |
|------------------------------|-------|------------|----------|------------------|----------|------------|----------|------------|-------|----------|
| Sampling Date | | 2010/08/03 | | 2010/08/03 | | 2010/08/03 | | 2010/08/03 | | |
| | Units | X14 | QC Batch | FIELD BLANK 1 | QC Batch | DUP 1 | QC Batch | TRIP BLANK | RDL | QC Batch |
| Total Metals by ICPMS | | | | | | | | | | |
| Total Aluminum (Al) | ug/L | 7.0 | 4175323 | 1.8 | 4187278 | 11.7 | 4175323 | 0.8 | 0.2 | 4175323 |
| Total Antimony (Sb) | ug/L | 0.08 | 4175323 | <0.02 | 4175323 | 0.08 | 4175323 | <0.02 | 0.02 | 4175323 |
| Total Arsenic (As) | ug/L | 0.49 | 4175323 | <0.02 | 4175323 | 0.48 | 4175323 | <0.02 | 0.02 | 4175323 |
| Total Barium (Ba) | ug/L | 49.0 | 4175323 | <0.02 | 4175323 | 48.8 | 4175323 | <0.02 | 0.02 | 4175323 |
| Total Beryllium (Be) | ug/L | <0.01 | 4175323 | <0.01 | 4175323 | <0.01 | 4175323 | <0.01 | 0.01 | 4175323 |
| Total Bismuth (Bi) | ug/L | <0.005 | 4175323 | <0.005 | 4175323 | <0.005 | 4175323 | <0.005 | 0.005 | 4175323 |
| Total Boron (B) | ug/L | <50 | 4175323 | <50 | 4175323 | <50 | 4175323 | <50 | 50 | 4175323 |
| Total Cadmium (Cd) | ug/L | 0.024 | 4175323 | <0.005 | 4175323 | 0.027 | 4175323 | <0.005 | 0.005 | 4175323 |
| Total Chromium (Cr) | ug/L | <0.1 | 4175323 | <0.1 | 4175323 | <0.1 | 4175323 | <0.1 | 0.1 | 4175323 |
| Total Cobalt (Co) | ug/L | 0.409 | 4175323 | <0.005 | 4175323 | 0.403 | 4175323 | <0.005 | 0.005 | 4175323 |
| Total Copper (Cu) | ug/L | 0.47 | 4175323 | <0.05 | 4175323 | 0.54 | 4175323 | <0.05 | 0.05 | 4175323 |
| Total Iron (Fe) | ug/L | 353 | 4175323 | <1 | 4175323 | 369 | 4175323 | <1 | 1 | 4175323 |
| Total Lead (Pb) | ug/L | 0.168 | 4175323 | <0.005 | 4175323 | 0.317 | 4175323 | <0.005 | 0.005 | 4187278 |
| Total Lithium (Li) | ug/L | 4.3 | 4175323 | <0.5 | 4175323 | 4.3 | 4175323 | <0.5 | 0.5 | 4175323 |
| Total Manganese (Mn) | ug/L | 617 | 4175323 | <0.05 | 4175323 | 620 | 4175323 | <0.05 | 0.05 | 4175323 |
| Total Molybdenum (Mo) | ug/L | 0.56 | 4175323 | <0.05 | 4175323 | 0.56 | 4175323 | <0.05 | 0.05 | 4175323 |
| Total Nickel (Ni) | ug/L | 1.39 | 4175323 | <0.02 | 4175323 | 1.37 | 4175323 | <0.02 | 0.02 | 4175323 |
| Total Selenium (Se) | ug/L | 0.20 | 4175323 | <0.04 | 4175323 | 0.19 | 4175323 | <0.04 | 0.04 | 4175323 |
| Total Silicon (Si) | ug/L | 4400 | 4175323 | <100 | 4175323 | 4330 | 4175323 | <100 | 100 | 4175323 |
| Total Silver (Ag) | ug/L | <0.005 | 4175323 | <0.005 | 4175323 | <0.005 | 4175323 | <0.005 | 0.005 | 4175323 |
| Total Strontium (Sr) | ug/L | 172 | 4175323 | <0.05 | 4175323 | 173 | 4175323 | <0.05 | 0.05 | 4175323 |
| Total Thallium (Tl) | ug/L | 0.005 | 4175323 | <0.002 | 4175323 | 0.006 | 4175323 | <0.002 | 0.002 | 4175323 |
| Total Tin (Sn) | ug/L | <0.01 | 4175323 | <0.01 | 4175323 | <0.01 | 4175323 | <0.01 | 0.01 | 4175323 |
| Total Titanium (Ti) | ug/L | <0.5 | 4175323 | <0.5 | 4175323 | 1.1 | 4175323 | <0.5 | 0.5 | 4175323 |
| Total Uranium (U) | ug/L | 1.49 | 4175323 | <0.002 | 4175323 | 1.50 | 4175323 | <0.002 | 0.002 | 4175323 |
| Total Vanadium (V) | ug/L | <0.2 | 4175323 | <0.2 | 4175323 | <0.2 | 4175323 | <0.2 | 0.2 | 4175323 |
| Total Zinc (Zn) | ug/L | 17.6 | 4175323 | <0.1 | 4175323 | 17.9 | 4175323 | <0.1 | 0.1 | 4175323 |
| Total Zirconium (Zr) | ug/L | <0.1 | 4175323 | <0.1 | 4175323 | <0.1 | 4175323 | <0.1 | 0.1 | 4175323 |
| Total Calcium (Ca) | mg/L | 43.7 | 4162803 | <0.05 | 4162803 | 43.9 | 4162803 | <0.05 | 0.05 | 4162803 |
| Total Magnesium (Mg) | mg/L | 9.85 | 4162803 | <0.05 | 4162803 | 10.0 | 4162803 | <0.05 | 0.05 | 4162803 |
| Total Potassium (K) | mg/L | 1.00 | 4162803 | <0.05 | 4162803 | 1.00 | 4162803 | <0.05 | 0.05 | 4162803 |
| Total Sodium (Na) | mg/L | 3.42 | 4162803 | <0.05 | 4162803 | 3.49 | 4162803 | <0.05 | 0.05 | 4162803 |
| Total Sulphur (S) | mg/L | 21 | 4162803 | <10 | 4162803 | 22 | 4162803 | <10 | 10 | 4162803 |

RDL = Reportable Detection Limit

Maxxam Job #: B067935
Report Date: 2010/08/20

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: DC

| | |
|-----------|--------|
| Package 1 | 11.7°C |
|-----------|--------|

Each temperature is the average of up to three cooler temperatures taken at receipt

Sample W03961, Elements by ICPMS Low Level (total): Test repeated.

Sample W03977, Elements by ICPMS Low Level (total): Test repeated.

Maxxam Job #: B067935
 Report Date: 2010/08/20

 ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

 Your P.O. #: SFN-09-02
 Sampler Initials: DC

QUALITY ASSURANCE REPORT

| QC Batch | Parameter | Date | Matrix Spike | | Spiked Blank | | Method Blank | | RPD | |
|----------|--|------------|--------------|-----------|--------------|-----------|----------------|-------|-----------------------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | Units | Value (%) | QC Limits |
| 4164042 | Ammonia (N) | 2010/08/09 | NC | 80 - 120 | 109 | 80 - 120 | <0.005 | mg/L | 0.5 | 20 |
| 4164801 | Total Suspended Solids | 2010/08/10 | | | 101 | 80 - 120 | <1 | mg/L | | |
| 4165494 | Conductivity | 2010/08/09 | | | 100 | 80 - 120 | <1 | uS/cm | 0 | 20 |
| 4165495 | Alkalinity (Total as CaCO ₃) | 2010/08/09 | 111 | 80 - 120 | 100 | 80 - 120 | 0.5, RDL=0.5 | mg/L | | |
| 4165495 | Alkalinity (PP as CaCO ₃) | 2010/08/09 | | | | | <0.5 | mg/L | | |
| 4165495 | Bicarbonate (HCO ₃) | 2010/08/09 | | | | | 0.6, RDL=0.5 | mg/L | | |
| 4165495 | Carbonate (CO ₃) | 2010/08/09 | | | | | <0.5 | mg/L | | |
| 4165495 | Hydroxide (OH) | 2010/08/09 | | | | | <0.5 | mg/L | | |
| 4165557 | Total Phosphorus (P) | 2010/08/10 | 104 | 80 - 120 | 97 | 80 - 120 | <0.005 | mg/L | NC | 20 |
| 4166692 | Fluoride (F) | 2010/08/10 | 105 | 80 - 120 | 97 | 80 - 120 | <0.01 | mg/L | 2.4 | 20 |
| 4167369 | Total Dissolved Solids | 2010/08/12 | 114 | 80 - 120 | 92 | 80 - 120 | <10 | mg/L | 3.9 | 20 |
| 4168618 | Dissolved Chloride (Cl) | 2010/08/10 | NC | 80 - 120 | 94 | 80 - 120 | <0.5 | mg/L | NC | 20 |
| 4168629 | Dissolved Sulphate (SO ₄) | 2010/08/10 | NC | 80 - 120 | 98 | 80 - 120 | <0.5 | mg/L | 0.1 | 20 |
| 4172007 | Ammonia (N) | 2010/08/11 | 86 | 80 - 120 | 100 | 80 - 120 | <0.005 | mg/L | NC | 20 |
| 4172123 | Weak Acid Dissoc. Cyanide (CN) | 2010/08/11 | 102 | 80 - 120 | 103 | 80 - 120 | <0.0005 | mg/L | NC | 20 |
| 4175323 | Total Arsenic (As) | 2010/08/12 | 103 | 80 - 120 | 99 | 80 - 120 | 0.03, RDL=0.02 | ug/L | 0.02 | 20 |
| 4175323 | Total Beryllium (Be) | 2010/08/12 | 113 | 80 - 120 | 115 | 80 - 120 | <0.01 | ug/L | NC | 20 |
| 4175323 | Total Cadmium (Cd) | 2010/08/12 | 100 | 80 - 120 | 102 | 80 - 120 | <0.005 | ug/L | 4.8 | 20 |
| 4175323 | Total Chromium (Cr) | 2010/08/12 | 104 | 80 - 120 | 100 | 80 - 120 | <0.1 | ug/L | NC | 20 |
| 4175323 | Total Cobalt (Co) | 2010/08/12 | 102 | 80 - 120 | 99 | 80 - 120 | <0.005 | ug/L | 13.0 | 20 |
| 4175323 | Total Copper (Cu) | 2010/08/12 | 101 | 80 - 120 | 104 | 80 - 120 | <0.05 | ug/L | 2.0 | 20 |
| 4175323 | Total Lead (Pb) | 2010/08/12 | 103 | 80 - 120 | 107 | 80 - 120 | <0.005 | ug/L | 21.4 _(1,2) | 20 |
| 4175323 | Total Lithium (Li) | 2010/08/12 | 103 | 80 - 120 | 111 | 80 - 120 | <0.5 | ug/L | 3.2 | 20 |
| 4175323 | Total Nickel (Ni) | 2010/08/12 | 99 | 80 - 120 | 100 | 80 - 120 | <0.02 | ug/L | 1.3 | 20 |
| 4175323 | Total Selenium (Se) | 2010/08/12 | 105 | 80 - 120 | 104 | 80 - 120 | <0.04 | ug/L | 3.1 | 20 |
| 4175323 | Total Uranium (U) | 2010/08/12 | 105 | 80 - 120 | 102 | 80 - 120 | <0.002 | ug/L | 1.5 | 20 |
| 4175323 | Total Vanadium (V) | 2010/08/12 | 103 | 80 - 120 | 95 | 80 - 120 | <0.2 | ug/L | NC | 20 |
| 4175323 | Total Zinc (Zn) | 2010/08/12 | NC | 80 - 120 | 108 | 80 - 120 | <0.1 | ug/L | 2.0 | 20 |
| 4175323 | Total Aluminum (Al) | 2010/08/12 | | | | | <0.2 | ug/L | 4.8 | 20 |
| 4175323 | Total Antimony (Sb) | 2010/08/12 | | | | | <0.02 | ug/L | 0.8 | 20 |
| 4175323 | Total Barium (Ba) | 2010/08/12 | | | | | <0.02 | ug/L | 1.0 | 20 |
| 4175323 | Total Bismuth (Bi) | 2010/08/12 | | | | | <0.005 | ug/L | NC | 20 |
| 4175323 | Total Boron (B) | 2010/08/12 | | | | | <50 | ug/L | NC | 20 |
| 4175323 | Total Iron (Fe) | 2010/08/12 | | | | | <1 | ug/L | 2.5 | 20 |
| 4175323 | Total Manganese (Mn) | 2010/08/12 | | | | | <0.05 | ug/L | 1.0 | 20 |
| 4175323 | Total Molybdenum (Mo) | 2010/08/12 | | | | | <0.05 | ug/L | 1.4 | 20 |
| 4175323 | Total Silicon (Si) | 2010/08/12 | | | | | <100 | ug/L | 2.4 | 20 |
| 4175323 | Total Silver (Ag) | 2010/08/12 | | | | | <0.005 | ug/L | NC | 20 |
| 4175323 | Total Strontium (Sr) | 2010/08/12 | | | | | <0.05 | ug/L | 0.4 | 20 |

Maxxam Job #: B067935
Report Date: 2010/08/20

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-09-02
Sampler Initials: DC

QUALITY ASSURANCE REPORT

| QC Batch | Parameter | Date | Matrix Spike | | Spiked Blank | | Method Blank | | RPD | |
|----------|--------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-------------------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | Units | Value (%) | QC Limits |
| 4175323 | Total Thallium (Tl) | 2010/08/12 | | | | | <0.002 | ug/L | NC | 20 |
| 4175323 | Total Tin (Sn) | 2010/08/12 | | | | | <0.01 | ug/L | NC | 20 |
| 4175323 | Total Titanium (Ti) | 2010/08/12 | | | | | <0.5 | ug/L | NC | 20 |
| 4175323 | Total Zirconium (Zr) | 2010/08/12 | | | | | <0.1 | ug/L | NC | 20 |
| 4175419 | Cyanide + Thiocyanate | 2010/08/12 | 102 | 80 - 120 | 97 | 80 - 120 | <0.0005 | mg/L | NC | 20 |
| 4176539 | Nitrate plus Nitrite (N) | 2010/08/12 | 100 | 80 - 120 | 103 | 80 - 120 | <0.02 | mg/L | NC ⁽³⁾ | 25 |
| 4178348 | Nitrite (N) | 2010/08/12 | 102 | 80 - 120 | 109 | 80 - 120 | <0.005 | mg/L | NC ⁽³⁾ | 20 |
| 4187278 | Total Lead (Pb) | 2010/08/18 | NC | 80 - 120 | 108 | 80 - 120 | <0.005 | ug/L | 0.8 | 20 |
| 4187278 | Total Aluminum (Al) | 2010/08/18 | | | | | <0.2 | ug/L | 2.9 | 20 |
| 4191165 | Nitrate plus Nitrite (N) | 2010/08/18 | 107 | 80 - 120 | 102 | 80 - 120 | <0.02 | mg/L | NC ⁽³⁾ | 25 |

N/A = Not Applicable

RDL = Reportable Detection Limit

RPD = Relative Percent Difference

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.

NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

(1) - Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(2) - Duplicate RPD for Pb exceeds acceptance criteria. 10% of analytes failure in multielement scan is allowed.

(3) - Sample analysed past recommended hold time



8577 Commerce Court
 Burnaby, BC V5A 4N5
 www.maxxamanalytics.com

Phone: (604) 444-4808
 Fax: (604) 444-4511
 Toll-Free: 1-800-440-4808

CHAIN-OF CUSTODY RECORD AND ANALYSIS REQUEST

08320212

| | | |
|--|------------------|-----------------------|
| LAB USE ONLY MAXXAM JOB # 6067939 | ANALYSIS REQUEST | LAB USE ONLY COC # |
|--|------------------|-----------------------|

| | | | |
|--|-------------------------------------|--|--|
| COMPANY NAME: Access Consulting Group | | CLIENT PROJECT NO.: SFN-07-01 | |
| COMPANY ADDRESS: #3 Calcite Business Center 151 Industrial Rd Whitehorse, YT Y1A 2V3 | | TEL.: (867) 668-6463 david@accessconsulting.ca | E-MAIL: paul@accessconsulting.ca marie@accessconsulting.ca |
| FAX: (867) 668-6680 | | LABORATORY CONTACT: Kim Webber | |
| SAMPLER NAME (PRINT): Durand Cornett, SFN Youth Program | PROJECT MANAGER: David Petkovich | | |

| FIELD SAMPLE ID | MAXXAM LAB # | MATRIX | | | | | SAMPLING | | # CONTAINERS | General (Alk, EC, pH) | TSS (TDS) | Total Metals (Low Level) | Anions (Cl, F, NH3, NO2, NO3, SO4) | Cyanide | Phosphorus |
|------------------|--------------|-------------|---------------|----------------|------|-------|----------|------|--------------|-----------------------|-----------|--------------------------|------------------------------------|---------|------------|
| | | GROUNDWATER | SURFACE WATER | DRINKING WATER | SOIL | OTHER | DATE | TIME | | | | | | | |
| 1 P1 | 95 | X | | | | | 3-Aug-10 | | 6 | X | X | X | X | X | X |
| 2 P4 | 95 | X | | | | | 3-Aug-10 | | 6 | X | X | X | X | X | X |
| 3 A1 | 95 | X | | | | | 3-Aug-10 | | 6 | X | X | X | X | X | X |
| 4 R6 | 95 | X | | | | | 3-Aug-10 | | 6 | X | X | X | X | X | X |
| 5 R4 | 95 | X | | | | | 3-Aug-10 | | 6 | X | X | X | X | X | X |
| 6 V8 | 95 | X | | | | | 3-Aug-10 | | 6 | X | X | X | X | X | X |
| 7 FC | 95 | X | | | | | 3-Aug-10 | | 6 | X | X | X | X | X | X |
| 8 X14 | 95 | X | | | | | 3-Aug-10 | | 6 | X | X | X | X | X | X |
| 9 Field Blank 1 | 95 | X | | | | | 3-Aug-10 | / | 1 | | x | | | | |
| 10 Dup1 | 95 | x | | | | | 3-Aug-10 | / | 1 | | x | | | | |
| 11 Field Blank 2 | 95 | x | | | | | 3-Aug-10 | / | 1 | | | x | | | |
| 12 Dup2 | 95 | x | | | | | 3-Aug-10 | / | 1 | | | x | | | |

| | | | | | | |
|---|--|---|-----------------------------------|--|-----------|---------------|
| TAT (Turnaround Time) LESS THAN 5 DAY TAT MUST HAVE PRIOR APPROVAL | PO NUMBER OR QUOTE NUMBER: SFN-09-02 | SPECIAL DETECTION LIMITS / CONTAMINANT TYPE: AS per previous SFN-07-01/ SFN-09-02 sampling | CCME CSR AB TIER 1 OTHER | LAB USE ONLY ARRIVAL TEMPERATURE °C: 14.10, 11 | DUE DATE: | LOG IN CHECK: |
| * Some exceptions apply - please contact laboratory | ACCOUNTING CONTACT: Colette MacMillon | SPECIAL REPORTING OR BILLING INSTRUCTIONS: | # JARS USED: | | | |
| STANDARD 5 BUSINESS DAYS RUSH 3 BUSINESS DAYS RUSH 2 BUSINESS DAYS URGENT 1 BUSINESS DAY | RELINQUISHED BY SAMPLER: Durand Cornett | DATE: 05/08/2010 | TIME: 19:00 | RECEIVED BY: | | |
| OTHER BUSINESS DAYS | RELINQUISHED BY: | DATE: | TIME: | RECEIVED BY: | | |
| | RELINQUISHED BY: | DATE: 09/08/10 | TIME: Page 49 of 215 | RECEIVED BY LABORATORY: Claire Raymond / Claire Raymond | | |

CUSTODY RECORD

CS N/A



MEMORANDUM

TO: File

CC: David Petkovich

FROM: Stuart Van Bibber

RE: November 2010 water sampling at Faro (Aquatic Ecosystem Monitoring Program, Faro Mine, Yukon)

PROJECT #: SFN-10-01

DATE: November 2, 2010

This letter report describes the field and in-office work conducted for the Aquatic Ecosystem Monitoring Program, Faro Mine, by Access Consulting Group (ACG) in November, 2010. Participants in this field trip included Paul Inglis and Stuart Van Bibber of ACG. Although attempts were made to involve a Selkirk First Nation (SFN) beneficiary, ACG personnel were unable to meet up with and include anyone from Pelly Crossing. The field trip to Faro proceeded without the assistance of a SFN person this month.

The following sections highlight the specific work conducted during the site visit.

1. Monthly Water Quality and Hydrology Surveillance Program

Between November 2 and 4, 2010, water quality samples, flows and in-situ data were collected from the following Water Quality Sample Stations (WQ stations): A1, FC, GCULV, K8, NWID, P1, P4, P5, R1, R4, R5, R6, USFR, V17A, V20A, V8, VGMAIN, VR, VW1, VW2, VW3, W10, and X14. All of the above stations were noted to have varying degrees of ice cover and/or glacial ice above flowing water. Many of the stations had open flowing water through which to collect samples and conduct stream flow measurements. Samples were collected from R4, R5, R6, A1, P4, and P1 by helicopter with an R44 Raven from Horizon Helicopters of Whitehorse.

All samples collected were filtered and preserved, if required, at the end of the day of collection and kept in the refrigerator or in coolers with ice packs. They were sent to Maxxam Analytics Inc. (Maxxam) and analyzed for the following parameters:

- Routine parameters (conductivity, pH, total suspended solids, colour, hardness, total and dissolved solids);
- Total suspended solids;
- Anions (ammonia, nitrogen, phosphate);
- Total Organics (alkalinity, hydroxide, carbonate, dissolved and total organic carbon);
- Cyanide (weak acid digestible); and
- Total and dissolved metals (suite of 33 metals, including all parameters found in the CCME and MMER guidelines).

A full suite of QA/QC water samples (TSS/TDS, General, Anions, TOC, Cyanide, and Total and Dissolved Metals) were collected as follows:

- Field duplicates – collected at station R4
- Field blanks – Field blanks processed at R6 from Distilled Water (DI water) from Maxxam Labs
- Trip blanks – A full suite of DI water provided by Maxxam and was carried to all sites throughout the entire trip and never opened.

2. In-situ Data

Study activities this month also consisted of collecting in-situ field measurements (pH, electrical conductivity, water temperature, turbidity, and oxidation reduction potential). The sites visited within the study area are presented in table format on the next page, which includes all associated measurements:

| Station | Date | Time (24 hr) | pH | EC (µS/cm) | WT (°C) | ORP (mV) | NTU | Flows (m ³ /sec) | |
|---------|----------|--------------|---|------------|---------|----------|-------|-----------------------------|--|
| P5 | 2-Nov-10 | 13:00 | 7.73 | 221.1 | 1.3 | 308.4 | 4.6 | *2 | |
| V8 | 2-Nov-10 | 17:15 | 8.13 | 303.3 | -0.1 | 281.3 | 2.60 | CONT | |
| V20A | 3-Nov-10 | 09:15 | 7.43 | 312.3 | -0.1 | 301.3 | 4.4 | *1 | |
| V17A | 3-Nov-10 | 10:15 | 7.49 | 99.8 | -0.1 | 286.2 | 1.9 | 0.012 | |
| VR | 3-Nov-10 | 11:20 | 7.30 | 44.6 | -0.1 | 280.1 | 0.42 | 0.018 | |
| USFR | 3-Nov-10 | 11:50 | 7.39 | 30.2 | -0.1 | 283.3 | 0.68 | 0.327 | |
| FC | 3-Nov-10 | 12:40 | 7.50 | 22.3 | 0.0 | 273.1 | 0.85 | CONT | |
| W10 | 3-Nov-10 | 13:10 | Stream reach dry to stream bed, no samples collected. | | | | | | |
| NWID | 3-Nov-10 | 13:30 | 7.92 | 193.8 | 0.0 | 286.7 | 0.20 | 0.007 | |
| X14 | 3-Nov-10 | 14:10 | 7.83 | 235.4 | 0.2 | 286.7 | 1.12 | CONT | |
| R1 | 3-Nov-10 | 14:43 | 7.86 | 121.1 | -0.1 | 285.1 | 0.93 | *1 | |
| K8 | 3-Nov-10 | 15:06 | 7.91 | 59.7 | 0.1 | 284.7 | 0.22 | 0.129 | |
| GCULV | 3-Nov-10 | 15:35 | 7.66 | 40.9 | 0.0 | 285.7 | 0.66 | 0.191 | |
| VW3 | 3-Nov-10 | 16:00 | 7.71 | 90.4 | 0.0 | 293.0 | 1.66 | 0.060 | |
| VW1 | 3-Nov-10 | 16:30 | 7.96 | 205.9 | 0.1 | 290.5 | 0.83 | n/r | |
| VW2 | 3-Nov-10 | 16:50 | 8.18 | 384.7 | 0.1 | 294.3 | 0.26 | 0.026 | |
| R5 | 4-Nov-10 | 11:31 | 7.76 | 203.9 | 0.1 | 299.3 | 0.45 | *2 | |
| R6 | 4-Nov-10 | 11:55 | 7.99 | 168.7 | -0.1 | 298.1 | 1.34 | 2.495 | |
| R4 | 4-Nov-10 | 12:30 | 7.76 | 207.8 | -0.1 | 309.0 | 0.49 | 2.012 | |
| A1 | 4-Nov-10 | 13:50 | 8.11 | 176.0 | 0.1 | 310.4 | 2.10 | 4.251 | |
| P4 | 4-Nov-10 | 14:00 | 8.14 | 214.6 | -0.1 | 311.8 | 2.20 | *2 | |
| P1 | 4-Nov-10 | 14:26 | 8.27 | 219.5 | 0.0 | 311.3 | 1.92 | *2 | |
| VGMAIN | 4-Nov-10 | 15:11 | 8.30 | 293.4 | 0.4 | 310.8 | 31.00 | 0.253 | |

Notes: µS/cm = microsiemens / centimeter

ppm = parts per million

EC = Electrical Conductivity

n/r = not read due to instrument malfunction

¹ No observable flow within which to accurately collect flows

² Flows too high to safely meter flows

WT = Water Temperature

n/a = not applicable

n/r - not required (as per Table 1: Monitoring Locations and Freq.)

CONT - continuously monitored by Denisen

3. Stream Discharge

Field activities this month also consisted of collecting stream discharge values through the use of the salt slug injection method. This method involved first determining the background conductivity of the stream using a handheld conductivity meter. Once this is established, a known weight of salt is dissolved in a bucket of stream water and then poured into the creek, at a distance upstream of at least 20-25 times the width of the stream. Electrical conductivity is continuously metered downstream of the injection point until the conductivity returns to background values after a peak has been observed. The stream discharge can be then calculated based on conductivity values.

It should be noted on the aforementioned table that flows were not metered for a number of reasons; either Denisen was continuously monitoring certain sites (CONT), flows did not have to be metered as per Table 1: Monitoring Locations and Frequencies of the "Aquatic Ecosystem Monitoring Program" document released by Minnow Environmental Inc. (n/r), flows were too high and safety was a concern (*²), or there were no observable flows within which to collect flow measurements (*¹).

4. Weather Conditions

November 2 – conditions late in the day were overcast, approximately -7°C, and no precipitation.

November 3 – day started off as cool, overcast, strong easterly winds, and a temperature of -8°C. By midday a large system was noted to be moving into the area, bringing with it a considerable amount of snow and very warm weather, with a maximum temperature of +1°C by 2:00pm. By 3:00pm, winds picked up, and by 3:30pm, considerable amounts of snow was falling, with temperatures ranging from -1°C to -4°C, depending on elevation.

November 4 – generally overcast, cloud ceiling of approximately 3000 ft., strong south westerly winds, and temperatures ranging from +2°C to +4°C. Slight rain was encountered at the beginning of the day, but by the end of the day, the skies cleared and cloud cover was minimal to moderate.

5. Photographs

Photos were taken throughout the day to document WQ Station conditions. Four representative photos are included. Please refer to the following link on the Access Consulting Group server for a compilation of all photos collected (W:\ACG_ACTIVE\SFN-2010\ENVIRONMENTAL MONITORING\Baseline Monitoring\2010\10-11\Photos). Notable photos are provided to the reader in the following two pages.



W10 – dry creek bed



R1 – Conductivity logging for salt slug flow measurements



P1 – Horizon Helicopters R44 Raven



VG Main - trailhead

Your P.O. #: SFN-10-01
 Your Project #: SFN-07-01
 Your C.O.C. #: 08325031, 08325032

Attention: David Petkovich
 ACCESS CONSULTING GROUP
 #3 Calcite
 151 Industrial Road
 WHITEHORSE, YT
 CANADA Y1A 3C8

Report Date: 2010/11/18

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B0A8919

Received: 2010/11/08, 08:15

Sample Matrix: Water
 # Samples Received: 25

| Analyses | Quantity | Date | | Laboratory Method | Analytical Method |
|---|----------|------------|------------|--------------------|----------------------|
| | | Extracted | Analyzed | | |
| Alkalinity - Water | 25 | 2010/11/09 | 2010/11/09 | BBY6SOP-00026 | Based on SM2320B |
| Chloride by Automated Colourimetry | 25 | N/A | 2010/11/09 | BRN-SOP 00234 R3.0 | Based on EPA 325.2 |
| Cyanide WAD (weak acid dissociable) | 25 | N/A | 2010/11/16 | BRN SOP-00227 R3.0 | Based on SM-4500CN I |
| Colour (True) | 25 | N/A | 2010/11/09 | BRN SOP-00247 R1.0 | Based on SM-2120B |
| Conductance - water | 25 | N/A | 2010/11/09 | BRN SOP-00264 R2.0 | Based on SM-2510B |
| Fluoride - Mining Clients | 25 | N/A | 2010/11/10 | BRN SOP-00225 R1.0 | Based SM - 4500 F C |
| Hardness Total (calculated as CaCO3) | 25 | N/A | 2010/11/16 | | |
| Hardness (calculated as CaCO3) | 24 | N/A | 2010/11/16 | | |
| Na, K, Ca, Mg, S by CRC ICPMS (diss.) | 24 | N/A | 2010/11/16 | BRN SOP-00206 | Based on EPA 200.8 |
| Elements by ICPMS Low Level (dissolved) | 4 | N/A | 2010/11/15 | BRN SOP-00206 | Based on EPA 200.8 |
| Elements by ICPMS Low Level (dissolved) | 20 | N/A | 2010/11/16 | BRN SOP-00206 | Based on EPA 200.8 |
| Na, K, Ca, Mg, S by CRC ICPMS (total) | 25 | N/A | 2010/11/16 | BRN SOP-00206 | Based on EPA 200.8 |
| Elements by ICPMS Low Level (total) | 1 | N/A | 2010/11/15 | BRN SOP-00206 | Based on EPA 200.8 |
| Elements by ICPMS Low Level (total) | 24 | N/A | 2010/11/16 | BRN SOP-00206 | Based on EPA 200.8 |
| Ammonia-N | 24 | N/A | 2010/11/09 | BBY6SOP-00044 | Based on EPA 350.1 |
| Ammonia-N | 1 | N/A | 2010/11/10 | BBY6SOP-00044 | Based on EPA 350.1 |
| Nitrate + Nitrite (N) | 25 | N/A | 2010/11/09 | | Based on USEPA 353.2 |
| Nitrite (N) by CFA | 25 | N/A | 2010/11/09 | BRN SOP-00233 R1.0 | EPA 353.2 |
| Nitrogen - Nitrate (as N) | 25 | N/A | 2010/11/10 | BBY6SOP-00010 | Based on EPA 353.2 |
| Filter and HNO3 Preserve for Metals | 24 | N/A | 2010/11/08 | BRN WI-00006 R1.0 | Based on EPA 200.2 |
| pH Water | 25 | N/A | 2010/11/09 | BRN SOP-00264 R4.0 | Based on SM-4500H+B |
| Sulphate by Automated Colourimetry | 25 | N/A | 2010/11/09 | BRN-SOP 00243 R1.0 | Based on EPA 375.4 |
| Total Dissolved Solids (Filt. Residue) | 2 | N/A | 2010/11/09 | BRN SOP 00276 R4.0 | SM 2540C |
| Total Dissolved Solids (Filt. Residue) | 23 | N/A | 2010/11/10 | BRN SOP 00276 R4.0 | SM 2540C |
| Carbon (Total Organic) | 24 | N/A | 2010/11/15 | BRN SOP-00224 R4.0 | Based on SM-5310C |
| Carbon (Total Organic) | 1 | N/A | 2010/11/16 | BRN SOP-00224 R4.0 | Based on SM-5310C |
| Total Phosphorus | 25 | N/A | 2010/11/10 | BRN SOP-00236 R4.0 | SM 4500 |
| Total Suspended Solids | 2 | N/A | 2010/11/09 | BRN SOP-00277 R5.0 | Based on SM - 2540 D |
| Total Suspended Solids | 23 | N/A | 2010/11/10 | BRN SOP-00277 R5.0 | Based on SM - 2540 D |

* Results relate only to the items tested.



Maxxam Job #: B0A8919
Report Date: 2010/11/18

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-10-01

-2-

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

KIMBERLEY WEBBER, BBY Customer Service
Email: kwebber@maxxam.ca
Phone# (604) 638-3254

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 2

Maxxam Job #: B0A8919
 Report Date: 2010/11/18

 ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

Your P.O. #: SFN-10-01

RESULTS OF CHEMICAL ANALYSES OF WATER

| Maxxam ID | | Y28421 | Y28422 | | Y28423 | Y28424 | Y28425 | Y28426 | Y28427 | Y28429 | | |
|--------------------------------|-----------|------------|------------|----------|------------|------------|------------|------------|------------|------------|--------|----------|
| Sampling Date | | 2010/11/02 | 2010/11/02 | | 2010/11/03 | 2010/11/03 | 2010/11/03 | 2010/11/03 | 2010/11/03 | 2010/11/03 | | |
| | Units | P5 | V8 | QC Batch | V20A | V17A | VR | USFR | FC | NWID | RDL | QC Batch |
| Misc. Inorganics | | | | | | | | | | | | |
| Fluoride (F) | mg/L | 0.12 | 0.15 | 4416212 | 0.16 | 0.07 | 0.07 | 0.07 | 0.10 | 0.18 | 0.01 | 4416212 |
| ANIONS | | | | | | | | | | | | |
| Nitrite (N) | mg/L | <0.005(1) | <0.005(1) | 4412287 | <0.005(1) | <0.005(1) | <0.005(1) | <0.005(1) | <0.005(1) | <0.005(1) | 0.005 | 4412287 |
| Calculated Parameters | | | | | | | | | | | | |
| Filter and HNO3 Preservation | N/A | FIELD | FIELD | ONSITE | FIELD | FIELD | FIELD | FIELD | FIELD | FIELD | N/A | ONSITE |
| Nitrate (N) | mg/L | 0.04 | 0.30 | 4408768 | 0.08 | 0.29 | 0.02 | 0.04 | <0.02 | 0.04 | 0.02 | 4408768 |
| Misc. Inorganics | | | | | | | | | | | | |
| Weak Acid Dissoc. Cyanide (CN) | mg/L | 0.0008 | 0.0008 | 4431268 | 0.0009 | 0.0008 | 0.0009 | 0.0010 | 0.0010 | 0.0008 | 0.0005 | 4431268 |
| Alkalinity (Total as CaCO3) | mg/L | 150 | 170 | 4411172 | 280 | 49 | 35 | 29 | 18 | 150 | 0.5 | 4411172 |
| Total Organic Carbon (C) | mg/L | 1.5 | 2.9 | 4428103 | 2.4 | 2.1 | 1.7 | <0.5 | 1.6 | 1.9 | 0.5 | 4428103 |
| Alkalinity (PP as CaCO3) | mg/L | <0.5 | <0.5 | 4411172 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 4411172 |
| Bicarbonate (HCO3) | mg/L | 180 | 210 | 4411172 | 350 | 60 | 42 | 36 | 21 | 180 | 0.5 | 4411172 |
| Carbonate (CO3) | mg/L | <0.5 | <0.5 | 4411172 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 4411172 |
| Hydroxide (OH) | mg/L | <0.5 | <0.5 | 4411172 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 4411172 |
| Anions | | | | | | | | | | | | |
| Dissolved Sulphate (SO4) | mg/L | 50 | 120 | 4414796 | 14 | 38 | 6.1 | 7.2 | 1.7 | 38 | 0.5 | 4414796 |
| Dissolved Chloride (Cl) | mg/L | <0.5 | <0.5 | 4414789 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 4414789 |
| MISCELLANEOUS | | | | | | | | | | | | |
| True Colour | Col. Unit | 5 | <5 | 4411765 | 5 | 5 | 5 | <5 | <5 | <5 | 5 | 4411765 |
| Nutrients | | | | | | | | | | | | |
| Ammonia (N) | mg/L | 0.030 | 0.015 | 4411931 | 0.019 | 0.036 | 0.014 | 0.015 | 0.013 | 0.013 | 0.005 | 4411931 |
| Nitrate plus Nitrite (N) | mg/L | 0.04(1) | 0.30(1) | 4412156 | 0.08 | 0.29(1) | 0.02(1) | 0.04(1) | <0.02(1) | 0.04(1) | 0.02 | 4412156 |
| Total Phosphorus (P) | mg/L | 0.007 | 0.006 | 4413378 | 0.014 | 0.007 | 0.007 | 0.006 | 0.006 | 0.007 | 0.005 | 4413378 |
| Physical Properties | | | | | | | | | | | | |
| Conductivity | uS/cm | 383 | 561 | 4411171 | 546 | 193 | 84 | 74 | 42 | 362 | 1 | 4411171 |
| pH | pH Units | 8.14 | 8.26 | 4411166 | 8.13 | 7.68 | 7.69 | 7.61 | 7.41 | 8.23 | | 4411166 |
| Physical Properties | | | | | | | | | | | | |
| Total Suspended Solids | mg/L | <4 | <4 | 4410402 | 25 | <4 | <4 | <4 | <4 | <4 | 4 | 4414735 |
| Total Dissolved Solids | mg/L | 210 | 340 | 4410491 | 300 | 120 | 58 | 58 | 36 | 210 | 10 | 4414776 |

N/A = Not Applicable

RDL = Reportable Detection Limit

(1) - Samples arrived to laboratory past recommended hold time.

Maxxam Job #: B0A8919
 Report Date: 2010/11/18

 ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

Your P.O. #: SFN-10-01

RESULTS OF CHEMICAL ANALYSES OF WATER

| Maxxam ID | | Y28430 | Y28431 | Y28432 | Y28456 | Y28457 | Y28458 | Y28459 | Y28460 | | |
|--------------------------------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------|----------|
| Sampling Date | | 2010/11/03 | 2010/11/03 | 2010/11/03 | 2010/11/04 | 2010/11/04 | 2010/11/04 | 2010/11/04 | 2010/11/04 | | |
| | Units | R1 | K8 | GCULV | R4 | R5 | R6 | A1 | P4 | RDL | QC Batch |
| Misc. Inorganics | | | | | | | | | | | |
| Fluoride (F) | mg/L | 0.12 | 0.10 | 0.08 | 0.11 | 0.11 | 0.08 | 0.10 | 0.14 | 0.01 | 4416212 |
| ANIONS | | | | | | | | | | | |
| Nitrite (N) | mg/L | <0.005 ⁽¹⁾ | <0.005 ⁽¹⁾ | <0.005 ⁽¹⁾ | <0.005 ⁽¹⁾ | <0.005 ⁽¹⁾ | <0.005 ⁽¹⁾ | <0.005 ⁽¹⁾ | <0.005 ⁽¹⁾ | 0.005 | 4412287 |
| Calculated Parameters | | | | | | | | | | | |
| Filter and HNO3 Preservation | N/A | FIELD | FIELD | FIELD | FIELD | FIELD | FIELD | FIELD | FIELD | N/A | ONSITE |
| Nitrate (N) | mg/L | 0.07 | 0.05 | 0.04 | 0.15 | 0.15 | 0.16 | 0.15 | 0.05 | 0.02 | 4408768 |
| Misc. Inorganics | | | | | | | | | | | |
| Weak Acid Dissoc. Cyanide (CN) | mg/L | 0.0009 | 0.0009 | 0.0008 | 0.0008 | 0.0008 | 0.0007 | 0.0009 | 0.0008 | 0.0005 | 4431268 |
| Alkalinity (Total as CaCO3) | mg/L | 94 | 53 | 30 | 120 | 130 | 140 | 120 | 140 | 0.5 | 4411172 |
| Total Organic Carbon (C) | mg/L | 2.2 | 1.6 | 2.0 | 3.6 | 2.1 | 2.0 | 1.2 | 1.7 | 0.5 | 4428103 |
| Alkalinity (PP as CaCO3) | mg/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 0.5 | 4411172 |
| Bicarbonate (HCO3) | mg/L | 110 | 64 | 37 | 150 | 160 | 170 | 150 | 170 | 0.5 | 4411172 |
| Carbonate (CO3) | mg/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.6 | 0.5 | 4411172 |
| Hydroxide (OH) | mg/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 4411172 |
| Anions | | | | | | | | | | | |
| Dissolved Sulphate (SO4) | mg/L | 21 | 11 | 7.0 | 72 | 66 | 22 | 41 | 59 | 0.5 | 4414796 |
| Dissolved Chloride (Cl) | mg/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 4414789 |
| MISCELLANEOUS | | | | | | | | | | | |
| True Colour | Col. Unit | 5 | <5 | 5 | <5 | <5 | <5 | <5 | <5 | 5 | 4411765 |
| Nutrients | | | | | | | | | | | |
| Ammonia (N) | mg/L | 0.041 | 0.041 | 0.011 | 0.023 | 0.022 | 0.012 | 0.015 | 0.016 | 0.005 | 4411931 |
| Nitrate plus Nitrite (N) | mg/L | 0.07 ⁽¹⁾ | 0.05 ⁽¹⁾ | 0.04 ⁽¹⁾ | 0.15 ⁽¹⁾ | 0.15 ⁽¹⁾ | 0.16 ⁽¹⁾ | 0.15 ⁽¹⁾ | 0.05 ⁽¹⁾ | 0.02 | 4412156 |
| Total Phosphorus (P) | mg/L | 0.005 | <0.005 | 0.005 | <0.005 | 0.006 | 0.006 | 0.011 | 0.008 | 0.005 | 4413378 |
| Physical Properties | | | | | | | | | | | |
| Conductivity | uS/cm | 226 | 131 | 84 | 385 | 379 | 314 | 328 | 400 | 1 | 4411171 |
| pH | pH Units | 8.07 | 7.89 | 7.69 | 8.15 | 8.17 | 8.22 | 8.26 | 8.31 | | 4411166 |
| Physical Properties | | | | | | | | | | | |
| Total Suspended Solids | mg/L | <4 | <4 | <4 | <4 | <4 | <4 | 8 | <4 | 4 | 4414735 |
| Total Dissolved Solids | mg/L | 130 | 74 | 54 | 230 | 240 | 170 | 180 | 240 | 10 | 4414776 |

N/A = Not Applicable

RDL = Reportable Detection Limit

(1) - Samples arrived to laboratory past recommended hold time.

Maxxam Job #: B0A8919
Report Date: 2010/11/18

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-10-01

RESULTS OF CHEMICAL ANALYSES OF WATER

| Maxxam ID | | Y28461 | Y28462 | Y28463 | Y28710 | | Y28711 | | |
|--|-----------|-----------------------|-----------------------|------------|--------|----------|--------|--------|----------|
| Sampling Date | | 2010/11/04 | 2010/11/04 | | | | | | |
| | Units | P1 | VG MAIN | TRIP BLANK | VM1 | QC Batch | VM2 | RDL | QC Batch |
| Misc. Inorganics | | | | | | | | | |
| Fluoride (F) | mg/L | 0.15 | 0.13 | <0.01 | 0.15 | 4416212 | 0.19 | 0.01 | 4416212 |
| ANIONS | | | | | | | | | |
| Nitrite (N) | mg/L | <0.005 ⁽¹⁾ | <0.005 ⁽¹⁾ | <0.005 | <0.005 | 4412287 | <0.005 | 0.005 | 4412287 |
| Calculated Parameters | | | | | | | | | |
| Filter and HNO3 Preservation | N/A | FIELD | FIELD | | FIELD | ONSITE | FIELD | N/A | ONSITE |
| Nitrate (N) | mg/L | 0.03 | 0.42 | <0.02 | 0.09 | 4408768 | 0.16 | 0.02 | 4408768 |
| Misc. Inorganics | | | | | | | | | |
| Weak Acid Dissoc. Cyanide (CN) | mg/L | 0.0009 | 0.0008 | 0.0014 | 0.0010 | 4431268 | 0.0006 | 0.0005 | 4431268 |
| Alkalinity (Total as CaCO ₃) | mg/L | 140 | 150 | 0.9 | 150 | 4411172 | 300 | 0.5 | 4411172 |
| Total Organic Carbon (C) | mg/L | 2.2 | 2.1 | 1.0 | 3.6 | 4428103 | 1.9 | 0.5 | 4430847 |
| Alkalinity (PP as CaCO ₃) | mg/L | <0.5 | <0.5 | <0.5 | <0.5 | 4411172 | 5.2 | 0.5 | 4411172 |
| Bicarbonate (HCO ₃) | mg/L | 170 | 180 | 1.1 | 190 | 4411172 | 350 | 0.5 | 4411172 |
| Carbonate (CO ₃) | mg/L | <0.5 | <0.5 | <0.5 | <0.5 | 4411172 | 6.2 | 0.5 | 4411172 |
| Hydroxide (OH) | mg/L | <0.5 | <0.5 | <0.5 | <0.5 | 4411172 | <0.5 | 0.5 | 4411172 |
| Anions | | | | | | | | | |
| Dissolved Sulphate (SO ₄) | mg/L | 69 | 130 | <0.5 | 52 | 4414796 | 110 | 0.5 | 4414796 |
| Dissolved Chloride (Cl) | mg/L | <0.5 | <0.5 | <0.5 | 0.7 | 4414789 | <0.5 | 0.5 | 4414789 |
| MISCELLANEOUS | | | | | | | | | |
| True Colour | Col. Unit | <5 | <5 | <5 | <5 | 4411765 | <5 | 5 | 4411765 |
| Nutrients | | | | | | | | | |
| Ammonia (N) | mg/L | 0.024 | 0.024 | <0.005 | 0.086 | 4411931 | <0.005 | 0.005 | 4411931 |
| Nitrate plus Nitrite (N) | mg/L | 0.03 ⁽¹⁾ | 0.42 ⁽¹⁾ | <0.02 | 0.09 | 4412156 | 0.16 | 0.02 | 4412156 |
| Total Phosphorus (P) | mg/L | 0.007 | <0.005 | <0.005 | <0.005 | 4413378 | <0.005 | 0.005 | 4413378 |
| Physical Properties | | | | | | | | | |
| Conductivity | uS/cm | 407 | 535 | 2 | 384 | 4411171 | 711 | 1 | 4411171 |
| pH | pH Units | 8.21 | 8.28 | 5.85 | 8.26 | 4411166 | 8.38 | | 4411166 |
| Physical Properties | | | | | | | | | |
| Total Suspended Solids | mg/L | <4 | <4 | <4 | <4 | 4414735 | <4 | 4 | 4414735 |
| Total Dissolved Solids | mg/L | 240 | 350 | <10 | 220 | 4414776 | 420 | 10 | 4414776 |

N/A = Not Applicable

RDL = Reportable Detection Limit

(1) - Samples arrived to laboratory past recommended hold time.

Maxxam Job #: B0A8919
 Report Date: 2010/11/18

 ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

Your P.O. #: SFN-10-01

RESULTS OF CHEMICAL ANALYSES OF WATER

| Maxxam ID | | Y28712 | Y28713 | | Y28714 | | Y28715 | | |
|--------------------------------|-----------|--------|-----------|----------|-------------|----------|--------|--------|----------|
| | Units | VM3 | DUPLICATE | QC Batch | FIELD BLANK | QC Batch | X14 | RDL | QC Batch |
| Misc. Inorganics | | | | | | | | | |
| Fluoride (F) | mg/L | 0.09 | 0.08 | 4416212 | <0.01 | 4416212 | 0.11 | 0.01 | 4416212 |
| ANIONS | | | | | | | | | |
| Nitrite (N) | mg/L | <0.005 | <0.005 | 4412287 | <0.005 | 4412287 | <0.005 | 0.005 | 4412287 |
| Calculated Parameters | | | | | | | | | |
| Filter and HNO3 Preservation | N/A | FIELD | FIELD | ONSITE | FIELD | ONSITE | FIELD | N/A | ONSITE |
| Nitrate (N) | mg/L | 0.16 | 0.16 | 4408768 | <0.02 | 4408768 | 0.12 | 0.02 | 4408768 |
| Misc. Inorganics | | | | | | | | | |
| Weak Acid Dissoc. Cyanide (CN) | mg/L | 0.0008 | 0.0008 | 4431268 | 0.0007 | 4431268 | 0.0009 | 0.0005 | 4431268 |
| Alkalinity (Total as CaCO3) | mg/L | 65 | 140 | 4411172 | 0.9 | 4411172 | 130 | 0.5 | 4411172 |
| Total Organic Carbon (C) | mg/L | 3.4 | 2.4 | 4428103 | 1.1 | 4428103 | 2.3 | 0.5 | 4428103 |
| Alkalinity (PP as CaCO3) | mg/L | <0.5 | <0.5 | 4411172 | <0.5 | 4411172 | <0.5 | 0.5 | 4411172 |
| Bicarbonate (HCO3) | mg/L | 79 | 170 | 4411172 | 1.1 | 4411172 | 160 | 0.5 | 4411172 |
| Carbonate (CO3) | mg/L | <0.5 | <0.5 | 4411172 | <0.5 | 4411172 | <0.5 | 0.5 | 4411172 |
| Hydroxide (OH) | mg/L | <0.5 | <0.5 | 4411172 | <0.5 | 4411172 | <0.5 | 0.5 | 4411172 |
| Anions | | | | | | | | | |
| Dissolved Sulphate (SO4) | mg/L | 28 | 23 | 4414796 | <0.5 | 4414796 | 95 | 0.5 | 4414796 |
| Dissolved Chloride (Cl) | mg/L | <0.5 | <0.5 | 4414789 | <0.5 | 4414789 | <0.5 | 0.5 | 4414789 |
| MISCELLANEOUS | | | | | | | | | |
| True Colour | Col. Unit | <5 | <5 | 4411765 | <5 | 4411765 | 5 | 5 | 4411765 |
| Nutrients | | | | | | | | | |
| Ammonia (N) | mg/L | <0.005 | 0.024 | 4411931 | <0.005 | 4415924 | 0.022 | 0.005 | 4411931 |
| Nitrate plus Nitrite (N) | mg/L | 0.16 | 0.16 | 4412156 | <0.02 | 4412156 | 0.12 | 0.02 | 4412156 |
| Total Phosphorus (P) | mg/L | <0.005 | <0.005 | 4413378 | <0.005 | 4413378 | <0.005 | 0.005 | 4413378 |
| Physical Properties | | | | | | | | | |
| Conductivity | uS/cm | 191 | 314 | 4411171 | 6 | 4411171 | 433 | 1 | 4411171 |
| pH | pH Units | 7.98 | 8.25 | 4411166 | 5.82 | 4411166 | 8.15 | | 4411166 |
| Physical Properties | | | | | | | | | |
| Total Suspended Solids | mg/L | <4 | <4 | 4414735 | <4 | 4414735 | <4 | 4 | 4414735 |
| Total Dissolved Solids | mg/L | 100 | 170 | 4414776 | <10 | 4414776 | 260 | 10 | 4414776 |

N/A = Not Applicable

RDL = Reportable Detection Limit

Maxxam Job #: B0A8919
 Report Date: 2010/11/18

 ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

Your P.O. #: SFN-10-01

LOW LEVEL DISSOLVED METALS IN WATER (WATER)

| Maxxam ID | | Y28421 | Y28422 | Y28423 | Y28424 | Y28425 | Y28426 | Y28427 | Y28429 | Y28430 | | |
|---|-------|--------------------|------------|---------------------|------------|------------|--------------------|---------------------|----------------------|--------------------|-------|----------|
| Sampling Date | | 2010/11/02 | 2010/11/02 | 2010/11/03 | 2010/11/03 | 2010/11/03 | 2010/11/03 | 2010/11/03 | 2010/11/03 | 2010/11/03 | | |
| | Units | P5 | V8 | V20A | V17A | VR | USFR | FC | NWID | R1 | RDL | QC Batch |
| Misc. Inorganics | | | | | | | | | | | | |
| Dissolved Hardness (CaCO ₃) | mg/L | 184 | 283 | 297 | 80.5 | 33.7 | 29.4 | 15.4 | 173 | 102 | 0.5 | 4406405 |
| Dissolved Metals by ICPMS | | | | | | | | | | | | |
| Dissolved Aluminum (Al) | ug/L | 14.2 | 4.8 | 2.3 | 18.3 | 13.2 | 6.1 | 20.0 | 3.5 | 2.8 | 0.2 | 4421486 |
| Dissolved Antimony (Sb) | ug/L | 0.12 | 0.13 | 0.12 | 0.04 | <0.02 | 0.03 | <0.02 | 0.04 | 0.03 | 0.02 | 4421486 |
| Dissolved Arsenic (As) | ug/L | 0.54 | 0.41 | 0.40 | 0.69 | 0.17 | 0.20 | 0.08 | 0.19 | 0.28 | 0.02 | 4421486 |
| Dissolved Barium (Ba) | ug/L | 83.0 | 58.0 | 167 | 26.0 | 29.8 | 29.6 | 17.2 | 53.6 | 49.3 | 0.02 | 4421486 |
| Dissolved Beryllium (Be) | ug/L | <0.01 | <0.01 | <0.01 | 0.01 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 4421486 |
| Dissolved Bismuth (Bi) | ug/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 4421486 |
| Dissolved Boron (B) | ug/L | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | 50 | 4421486 |
| Dissolved Cadmium (Cd) | ug/L | 0.104 | 0.045 | 0.007 | 0.023 | 0.005 | <0.005 | 0.010 | 0.060 ⁽¹⁾ | <0.005 | 0.005 | 4421486 |
| Dissolved Chromium (Cr) | ug/L | 0.1 | 0.2 | <0.1 | 0.2 | <0.1 | <0.1 | 0.2 | <0.1 | <0.1 | 0.1 | 4421486 |
| Dissolved Cobalt (Co) | ug/L | 0.145 | 0.032 | 0.021 | 0.116 | 0.010 | 0.011 | 0.018 | 0.014 | 0.052 | 0.005 | 4421486 |
| Dissolved Copper (Cu) | ug/L | 0.78 | 0.56 | 0.20 | 0.57 | 0.39 | 0.26 | 0.45 | 0.62 | 0.33 | 0.05 | 4421486 |
| Dissolved Iron (Fe) | ug/L | 85 | 9 | 73 | 135 | 9 | 35 | 14 | 3 | 118 | 1 | 4421486 |
| Dissolved Lead (Pb) | ug/L | 0.066 | 0.020 | 0.038 | 0.270 | 0.013 | 0.008 | 0.030 | 0.069 | 0.009 | 0.005 | 4421486 |
| Dissolved Lithium (Li) | ug/L | 3.3 | 4.6 | 6.5 | 0.7 | <0.5 | 1.0 | 2.2 | 6.6 | 1.9 | 0.5 | 4421486 |
| Dissolved Manganese (Mn) | ug/L | 201 | 2.94 | 26.2 | 48.1 | 0.34 | 0.64 | 0.48 | 0.05 | 58.4 | 0.05 | 4421486 |
| Dissolved Molybdenum (Mo) | ug/L | 1.21 | 0.97 | 0.65 ⁽¹⁾ | 0.10 | 0.14 | 0.31 | 0.08 | 0.29 | 0.22 | 0.05 | 4421486 |
| Dissolved Nickel (Ni) | ug/L | 3.08 | 1.20 | 0.24 | 0.41 | 0.14 | 0.15 | 0.39 ⁽¹⁾ | 0.48 | 0.32 | 0.02 | 4421486 |
| Dissolved Selenium (Se) | ug/L | 0.57 | 0.78 | 2.45 | <0.04 | <0.04 | <0.04 | <0.04 | 0.25 | 0.13 | 0.04 | 4421486 |
| Dissolved Silicon (Si) | ug/L | 3670 | 4470 | 5660 | 5480 | 4490 | 3950 | 6800 | 6420 | 4490 | 100 | 4421486 |
| Dissolved Silver (Ag) | ug/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 4421486 |
| Dissolved Strontium (Sr) | ug/L | 245 | 279 | 366 | 100 | 57.0 | 58.9 | 29.9 | 234 | 170 | 0.05 | 4421486 |
| Dissolved Thallium (Tl) | ug/L | 0.004 | 0.005 | <0.002 | 0.004 | <0.002 | <0.002 | <0.002 | 0.003 | <0.002 | 0.002 | 4421486 |
| Dissolved Tin (Sn) | ug/L | <0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 4421486 |
| Dissolved Titanium (Ti) | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 4421486 |
| Dissolved Uranium (U) | ug/L | 1.31 | 6.02 | 3.97 | 1.24 | 0.411 | 0.405 | 0.071 | 1.36 | 1.63 | 0.002 | 4421486 |
| Dissolved Vanadium (V) | ug/L | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 0.2 | 4421486 |
| Dissolved Zinc (Zn) | ug/L | 8.2 ⁽¹⁾ | 7.0 | 3.3 | 21.0 | 0.8 | 1.0 ⁽¹⁾ | 1.7 | 11.2 | 1.0 ⁽¹⁾ | 0.1 | 4421486 |
| Dissolved Zirconium (Zr) | ug/L | <0.1 | <0.1 | <0.1 | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 4421486 |
| Dissolved Calcium (Ca) | mg/L | 48.6 | 66.0 | 76.6 | 22.3 | 10.1 | 9.12 | 4.53 | 56.7 | 31.4 | 0.05 | 4409682 |
| Dissolved Magnesium (Mg) | mg/L | 15.1 | 28.7 | 25.7 | 6.04 | 2.08 | 1.62 | 0.99 | 7.58 | 5.82 | 0.05 | 4409682 |
| Dissolved Potassium (K) | mg/L | 1.65 | 0.98 | 1.21 | 0.32 | 0.34 | 0.31 | 0.14 | 1.60 | 0.88 | 0.05 | 4409682 |
| Dissolved Sodium (Na) | mg/L | 3.83 | 3.69 | 3.82 | 2.10 | 1.61 | 1.84 | 2.00 | 3.28 | 2.31 | 0.05 | 4409682 |

RDL = Reportable Detection Limit

(1) - Dissolved greater than total. Reanalysis yields similar results

Maxxam Job #: B0A8919
 Report Date: 2010/11/18

ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

Your P.O. #: SFN-10-01

LOW LEVEL DISSOLVED METALS IN WATER (WATER)

| Maxxam ID | | Y28421 | Y28422 | Y28423 | Y28424 | Y28425 | Y28426 | Y28427 | Y28429 | Y28430 | | |
|-----------------------|-------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-----|----------|
| Sampling Date | | 2010/11/02 | 2010/11/02 | 2010/11/03 | 2010/11/03 | 2010/11/03 | 2010/11/03 | 2010/11/03 | 2010/11/03 | 2010/11/03 | | |
| | Units | P5 | V8 | V20A | V17A | VR | USFR | FC | NWID | R1 | RDL | QC Batch |
| Dissolved Sulphur (S) | mg/L | 19 | 46 | <10 | 14 | <10 | <10 | <10 | 14 | <10 | 10 | 4409682 |

RDL = Reportable Detection Limit

Maxxam Job #: B0A8919
 Report Date: 2010/11/18

 ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

Your P.O. #: SFN-10-01

LOW LEVEL DISSOLVED METALS IN WATER (WATER)

| Maxxam ID | | Y28431 | | Y28432 | Y28456 | Y28457 | | Y28458 | | Y28459 | Y28460 | | |
|----------------------------------|-------|--------------------|----------|---------------------|------------|------------|----------|--------------------|----------|------------|------------|-------|----------|
| Sampling Date | | 2010/11/03 | | 2010/11/03 | 2010/11/04 | 2010/11/04 | | 2010/11/04 | | 2010/11/04 | 2010/11/04 | | |
| | Units | K8 | QC Batch | GCULV | R4 | R5 | QC Batch | R6 | QC Batch | A1 | P4 | RDL | QC Batch |
| Misc. Inorganics | | | | | | | | | | | | | |
| Dissolved Hardness (CaCO3) | mg/L | 56.3 | 4406405 | 30.5 | 186 | 179 | 4406405 | 155 | 4406405 | 155 | 195 | 0.5 | 4406405 |
| Dissolved Metals by ICPMS | | | | | | | | | | | | | |
| Dissolved Aluminum (Al) | ug/L | 5.4 | 4421486 | 5.4 | 1.4 | 1.4 | 4421486 | 2.2 | 4421486 | 4.3 | 4.8 | 0.2 | 4421486 |
| Dissolved Antimony (Sb) | ug/L | 0.03 | 4421486 | 0.02 | 0.09 | 0.09 | 4421486 | 0.12 | 4421486 | 0.11 | 0.17 | 0.02 | 4421486 |
| Dissolved Arsenic (As) | ug/L | 0.18 | 4421486 | 0.22 | 0.21 | 0.22 | 4421486 | 0.33 | 4421486 | 0.55 | 0.58 | 0.02 | 4421486 |
| Dissolved Barium (Ba) | ug/L | 28.3 | 4421486 | 31.2 | 63.2 | 64.5 | 4421486 | 78.4 | 4421486 | 65.9 | 80.1 | 0.02 | 4421486 |
| Dissolved Beryllium (Be) | ug/L | <0.01 | 4421486 | <0.01 | <0.01 | <0.01 | 4421486 | <0.01 | 4421486 | <0.01 | <0.01 | 0.01 | 4421486 |
| Dissolved Bismuth (Bi) | ug/L | <0.005 | 4421486 | <0.005 | <0.005 | <0.005 | 4421486 | <0.005 | 4421486 | <0.005 | <0.005 | 0.005 | 4421486 |
| Dissolved Boron (B) | ug/L | <50 | 4421486 | <50 | <50 | <50 | 4421486 | <50 | 4421486 | <50 | <50 | 50 | 4421486 |
| Dissolved Cadmium (Cd) | ug/L | <0.005 | 4421486 | <0.005 | 0.014 | 0.012 | 4421486 | 0.009 | 4421486 | 0.008 | 0.042 | 0.005 | 4421486 |
| Dissolved Chromium (Cr) | ug/L | <0.1 | 4421486 | <0.1 | 0.1 | <0.1 | 4421486 | <0.1 | 4421486 | 0.1 | <0.1 | 0.1 | 4421486 |
| Dissolved Cobalt (Co) | ug/L | 0.012 | 4421486 | 0.010 | 0.071 | 0.069 | 4421486 | 0.015 | 4421486 | 0.021 | 0.044 | 0.005 | 4421486 |
| Dissolved Copper (Cu) | ug/L | 0.28 | 4437347 | 0.22 | 0.44 | 0.42 | 4421486 | 0.36 | 4421486 | 0.41 | 0.50 | 0.05 | 4421486 |
| Dissolved Iron (Fe) | ug/L | 3 | 4437347 | 30 | 31 | 31 | 4421486 | 34 | 4421486 | 14 | 19 | 1 | 4421486 |
| Dissolved Lead (Pb) | ug/L | 0.024 | 4421486 | 0.012 | 0.028 | 0.021 | 4421486 | 0.015 | 4421486 | 0.017 | 0.021 | 0.005 | 4421486 |
| Dissolved Lithium (Li) | ug/L | 2.0 | 4421486 | 1.1 | 3.8 | 3.5 | 4421486 | 2.3 | 4421486 | 3.3 | 3.8 | 0.5 | 4421486 |
| Dissolved Manganese (Mn) | ug/L | 0.14 | 4421486 | 0.55 | 188 | 161 | 4421486 | 6.28 | 4421486 | 2.56 | 16.7 | 0.05 | 4421486 |
| Dissolved Molybdenum (Mo) | ug/L | 0.12 | 4421486 | 0.23 | 0.62 | 0.66 | 4421486 | 1.18 | 4421486 | 0.96 | 1.40 | 0.05 | 4421486 |
| Dissolved Nickel (Ni) | ug/L | 0.19 | 4437347 | 0.18 ⁽¹⁾ | 1.04 | 0.84 | 4421486 | 0.27 | 4421486 | 0.47 | 2.18 | 0.02 | 4421486 |
| Dissolved Selenium (Se) | ug/L | 0.06 | 4421486 | <0.04 | 0.50 | 0.50 | 4421486 | 0.76 | 4421486 | 0.59 | 0.90 | 0.04 | 4421486 |
| Dissolved Silicon (Si) | ug/L | 4620 | 4421486 | 3830 | 4810 | 4620 | 4421486 | 4670 | 4421486 | 4650 | 3410 | 100 | 4421486 |
| Dissolved Silver (Ag) | ug/L | <0.005 | 4421486 | <0.005 | <0.005 | <0.005 | 4421486 | <0.005 | 4421486 | <0.005 | <0.005 | 0.005 | 4421486 |
| Dissolved Strontium (Sr) | ug/L | 124 | 4421486 | 62.4 | 199 | 194 | 4421486 | 137 | 4421486 | 159 | 220 | 0.05 | 4421486 |
| Dissolved Thallium (Tl) | ug/L | <0.002 | 4421486 | <0.002 | 0.008 | 0.006 | 4421486 | <0.002 | 4421486 | 0.003 | <0.002 | 0.002 | 4421486 |
| Dissolved Tin (Sn) | ug/L | <0.01 | 4421486 | <0.01 | <0.01 | <0.01 | 4421486 | <0.01 | 4421486 | <0.01 | <0.01 | 0.01 | 4421486 |
| Dissolved Titanium (Ti) | ug/L | <0.5 | 4421486 | <0.5 | <0.5 | <0.5 | 4421486 | <0.5 | 4421486 | <0.5 | <0.5 | 0.5 | 4421486 |
| Dissolved Uranium (U) | ug/L | 2.13 | 4421486 | 0.397 | 1.97 | 1.98 | 4421486 | 2.24 | 4421486 | 2.14 | 2.36 | 0.002 | 4421486 |
| Dissolved Vanadium (V) | ug/L | <0.2 | 4421486 | <0.2 | <0.2 | <0.2 | 4421486 | <0.2 | 4421486 | <0.2 | 0.2 | 0.2 | 4421486 |
| Dissolved Zinc (Zn) | ug/L | 1.4 ⁽¹⁾ | 4437347 | 0.7 | 11.1 | 9.8 | 4421486 | 1.4 ⁽¹⁾ | 4437347 | 1.3 | 2.9 | 0.1 | 4421486 |
| Dissolved Zirconium (Zr) | ug/L | <0.1 | 4421486 | <0.1 | <0.1 | <0.1 | 4421486 | <0.1 | 4421486 | <0.1 | <0.1 | 0.1 | 4421486 |
| Dissolved Calcium (Ca) | mg/L | 18.2 | 4409682 | 9.34 | 55.1 | 52.3 | 4409682 | 44.0 | 4409682 | 45.1 | 51.3 | 0.05 | 4409682 |
| Dissolved Magnesium (Mg) | mg/L | 2.61 | 4409682 | 1.74 | 11.8 | 11.8 | 4409682 | 11.0 | 4409682 | 10.2 | 16.3 | 0.05 | 4409682 |
| Dissolved Potassium (K) | mg/L | 0.47 | 4409682 | 0.33 | 1.25 | 1.24 | 4409682 | 1.13 | 4409682 | 1.32 | 0.95 | 0.05 | 4409682 |
| Dissolved Sodium (Na) | mg/L | 2.05 | 4409682 | 1.91 | 3.52 | 3.35 | 4409682 | 1.96 | 4409682 | 2.87 | 2.62 | 0.05 | 4409682 |

RDL = Reportable Detection Limit

(1) - Dissolved greater than total. Reanalysis yields similar results

Maxxam Job #: B0A8919
 Report Date: 2010/11/18

ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

Your P.O. #: SFN-10-01

LOW LEVEL DISSOLVED METALS IN WATER (WATER)

| Maxxam ID | | Y28431 | | Y28432 | Y28456 | Y28457 | | Y28458 | | Y28459 | Y28460 | | |
|-----------------------|-------|------------|----------|------------|------------|------------|----------|------------|----------|------------|------------|-----|----------|
| Sampling Date | | 2010/11/03 | | 2010/11/03 | 2010/11/04 | 2010/11/04 | | 2010/11/04 | | 2010/11/04 | 2010/11/04 | | |
| | Units | K8 | QC Batch | GCULV | R4 | R5 | QC Batch | R6 | QC Batch | A1 | P4 | RDL | QC Batch |
| Dissolved Sulphur (S) | mg/L | <10 | 4409682 | <10 | 25 | 23 | 4409682 | <10 | 4409682 | 16 | 23 | 10 | 4409682 |

RDL = Reportable Detection Limit



Maxxam Job #: B0A8919
Report Date: 2010/11/18

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-10-01

LOW LEVEL DISSOLVED METALS IN WATER (WATER)

| Maxxam ID | | Y28461 | Y28462 | Y28710 | Y28711 | | Y28712 | Y28713 | Y28714 | Y28715 | | |
|----------------------------|-------|------------|------------|--------|--------|----------|--------|-----------|-------------|--------|-----|----------|
| Sampling Date | | 2010/11/04 | 2010/11/04 | | | | | | | | | |
| | Units | P1 | VG MAIN | VM1 | VM2 | QC Batch | VM3 | DUPLICATE | FIELD BLANK | X14 | RDL | QC Batch |
| Misc. Inorganics | | | | | | | | | | | | |
| Dissolved Hardness (CaCO3) | mg/L | 204 | 268 | 187 | 423 | 4406405 | 93.9 | 175 | <0.5 | 226 | 0.5 | 4406405 |

RDL = Reportable Detection Limit

Maxxam Job #: B0A8919
 Report Date: 2010/11/18

 ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

Your P.O. #: SFN-10-01

LOW LEVEL DISSOLVED METALS IN WATER (WATER)

| Maxxam ID | | Y28461 | Y28462 | Y28710 | Y28711 | | Y28712 | Y28713 | Y28714 | Y28715 | | |
|----------------------------------|-------|------------|------------|--------|--------|----------|----------------------|-----------|--------------------|--------|-------|----------|
| Sampling Date | | 2010/11/04 | 2010/11/04 | | | | | | | | | |
| | Units | P1 | VG MAIN | VM1 | VM2 | QC Batch | VM3 | DUPLICATE | FIELD BLANK | X14 | RDL | QC Batch |
| Dissolved Metals by ICPMS | | | | | | | | | | | | |
| Dissolved Aluminum (Al) | ug/L | 5.7 | 3.8 | 4.0 | 2.1 | 4421486 | 10.5 | 3.1 | 0.3 | 2.3 | 0.2 | 4423025 |
| Dissolved Antimony (Sb) | ug/L | 0.17 | 0.13 | 0.05 | 0.31 | 4421486 | 0.03 | 0.12 | <0.02 | 0.05 | 0.02 | 4423025 |
| Dissolved Arsenic (As) | ug/L | 0.39 | 0.42 | 0.49 | 0.41 | 4421486 | 0.49 | 0.32 | <0.02 | 0.19 | 0.02 | 4423025 |
| Dissolved Barium (Ba) | ug/L | 77.7 | 53.0 | 64.5 | 103 | 4421486 | 34.0 | 77.0 | <0.02 | 57.2 | 0.02 | 4423025 |
| Dissolved Beryllium (Be) | ug/L | <0.01 | <0.01 | <0.01 | <0.01 | 4421486 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 4423025 |
| Dissolved Bismuth (Bi) | ug/L | <0.005 | <0.005 | <0.005 | <0.005 | 4421486 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 4423025 |
| Dissolved Boron (B) | ug/L | <50 | <50 | <50 | <50 | 4421486 | <50 | <50 | <50 | <50 | 50 | 4423025 |
| Dissolved Cadmium (Cd) | ug/L | 0.084 | 0.042 | 0.007 | 0.115 | 4421486 | 0.024 | 0.009 | <0.005 | 0.029 | 0.005 | 4423025 |
| Dissolved Chromium (Cr) | ug/L | <0.1 | <0.1 | <0.1 | 0.1 | 4421486 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 4423025 |
| Dissolved Cobalt (Co) | ug/L | 0.019 | 0.073 | 0.052 | 0.017 | 4421486 | 0.028 ⁽¹⁾ | 0.018 | <0.005 | 0.824 | 0.005 | 4423025 |
| Dissolved Copper (Cu) | ug/L | 0.58 | 0.56 | 0.38 | 0.47 | 4421486 | 0.36 | 0.27 | <0.05 | 0.28 | 0.05 | 4423025 |
| Dissolved Iron (Fe) | ug/L | 19 | 15 | 50 | 4 | 4421486 | 51 | 44 | <1 | 94 | 1 | 4423025 |
| Dissolved Lead (Pb) | ug/L | 0.012 | 0.075 | 0.009 | 0.008 | 4421486 | 0.085 | 0.008 | <0.005 | 0.032 | 0.005 | 4423025 |
| Dissolved Lithium (Li) | ug/L | 3.7 | 3.9 | 3.2 | 3.8 | 4421486 | 0.9 | 2.4 | <0.5 | 5.3 | 0.5 | 4423025 |
| Dissolved Manganese (Mn) | ug/L | 7.23 | 4.50 | 48.1 | 0.07 | 4421486 | 10.3 | 6.45 | <0.05 | 1200 | 0.05 | 4423025 |
| Dissolved Molybdenum (Mo) | ug/L | 1.35 | 0.74 | 0.47 | 3.52 | 4421486 | 0.12 | 1.15 | <0.05 | 0.51 | 0.05 | 4423025 |
| Dissolved Nickel (Ni) | ug/L | 2.94 | 1.37 | 0.41 | 1.33 | 4421486 | 0.27 | 0.25 | <0.02 | 2.27 | 0.02 | 4423025 |
| Dissolved Selenium (Se) | ug/L | 1.11 | 0.47 | 0.15 | 3.70 | 4421486 | 0.06 | 0.80 | <0.04 | 0.27 | 0.04 | 4423025 |
| Dissolved Silicon (Si) | ug/L | 3040 | 4260 | 4910 | 4820 | 4421486 | 5640 | 5440 | <100 | 5760 | 100 | 4423025 |
| Dissolved Silver (Ag) | ug/L | <0.005 | <0.005 | <0.005 | <0.005 | 4421486 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 4423025 |
| Dissolved Strontium (Sr) | ug/L | 231 | 258 | 231 | 344 | 4421486 | 122 | 138 | <0.05 | 228 | 0.05 | 4423025 |
| Dissolved Thallium (Tl) | ug/L | 0.002 | 0.006 | <0.002 | <0.002 | 4421486 | 0.003 | <0.002 | <0.002 | 0.004 | 0.002 | 4423025 |
| Dissolved Tin (Sn) | ug/L | <0.01 | <0.01 | <0.01 | <0.01 | 4421486 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 4423025 |
| Dissolved Titanium (Ti) | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | 4421486 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 4423025 |
| Dissolved Uranium (U) | ug/L | 2.38 | 6.41 | 2.68 | 8.14 | 4421486 | 1.89 | 2.22 | 0.003 | 2.25 | 0.002 | 4423025 |
| Dissolved Vanadium (V) | ug/L | <0.2 | <0.2 | <0.2 | 1.1 | 4421486 | <0.2 | <0.2 | <0.2 | <0.2 | 0.2 | 4423025 |
| Dissolved Zinc (Zn) | ug/L | 6.9 | 12.0 | 1.8 | 5.3 | 4421486 | 11.9 | 1.2 | 1.1 ⁽²⁾ | 30.6 | 0.1 | 4423025 |
| Dissolved Zirconium (Zr) | ug/L | <0.1 | <0.1 | <0.1 | <0.1 | 4421486 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 4423025 |
| Dissolved Calcium (Ca) | mg/L | 51.6 | 63.0 | 48.6 | 109 | 4409682 | 28.0 | 50.8 | <0.05 | 67.5 | 0.05 | 4409682 |
| Dissolved Magnesium (Mg) | mg/L | 18.4 | 26.9 | 15.9 | 36.6 | 4409682 | 5.82 | 11.6 | <0.05 | 13.9 | 0.05 | 4409682 |
| Dissolved Potassium (K) | mg/L | 0.76 | 0.89 | 0.71 | 1.01 | 4409682 | 0.40 | 1.26 | <0.05 | 1.36 | 0.05 | 4409682 |
| Dissolved Sodium (Na) | mg/L | 2.23 | 3.46 | 3.30 | 2.58 | 4409682 | 1.98 | 2.02 | <0.05 | 4.49 | 0.05 | 4409682 |

RDL = Reportable Detection Limit

(1) - Duplicate RPD for Co exceeds acceptance criteria. 10% of analytes failure in multielement scan is allowed.

(2) - Dissolved greater than total. Reanalysis yields similar results

Maxxam Job #: B0A8919
 Report Date: 2010/11/18

ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

Your P.O. #: SFN-10-01

LOW LEVEL DISSOLVED METALS IN WATER (WATER)

| Maxxam ID | | Y28461 | Y28462 | Y28710 | Y28711 | | Y28712 | Y28713 | Y28714 | Y28715 | | |
|-----------------------|-------|------------|------------|--------|--------|----------|--------|-----------|-------------|--------|-----|----------|
| Sampling Date | | 2010/11/04 | 2010/11/04 | | | | | | | | | |
| | Units | P1 | VG MAIN | VM1 | VM2 | QC Batch | VM3 | DUPLICATE | FIELD BLANK | X14 | RDL | QC Batch |
| Dissolved Sulphur (S) | mg/L | 25 | 48 | 17 | 40 | 4409682 | 11 | <10 | <10 | 37 | 10 | 4409682 |

RDL = Reportable Detection Limit



Maxxam Job #: B0A8919
 Report Date: 2010/11/18

ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

Your P.O. #: SFN-10-01

LOW LEVEL TOTAL METALS IN WATER (WATER)

| Maxxam ID | | Y28421 | Y28422 | Y28423 | Y28424 | Y28425 | Y28426 | Y28427 | Y28429 | Y28430 | Y28431 | | |
|------------------------------|-------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------|----------|
| Sampling Date | | 2010/11/02 | 2010/11/02 | 2010/11/03 | 2010/11/03 | 2010/11/03 | 2010/11/03 | 2010/11/03 | 2010/11/03 | 2010/11/03 | 2010/11/03 | | |
| | Units | P5 | V8 | V20A | V17A | VR | USFR | FC | NWID | R1 | K8 | RDL | QC Batch |
| Calculated Parameters | | | | | | | | | | | | | |
| Total Hardness (CaCO3) | mg/L | 190 | 304 | 307 | 84.6 | 34.8 | 30.8 | 15.7 | 166 | 103 | 56.6 | 0.5 | 4410325 |
| Total Metals by ICPMS | | | | | | | | | | | | | |
| Total Aluminum (Al) | ug/L | 22.7 | 13.7 | 64.9 | 25.4 | 18.6 | 13.4 | 22.5 | 5.2 | 6.2 | 5.0 | 0.2 | 4417425 |
| Total Antimony (Sb) | ug/L | 0.13 | 0.14 | 0.13 | 0.05 | 0.02 | 0.03 | <0.02 | 0.04 | 0.03 | <0.02 | 0.02 | 4417425 |
| Total Arsenic (As) | ug/L | 0.59 | 0.47 | 0.65 | 0.89 | 0.18 | 0.25 | 0.08 | 0.18 | 0.30 | 0.19 | 0.02 | 4417425 |
| Total Barium (Ba) | ug/L | 83.0 | 59.1 | 180 | 26.9 | 30.1 | 30.6 | 17.2 | 51.7 | 52.9 | 28.1 | 0.02 | 4417425 |
| Total Beryllium (Be) | ug/L | <0.01 | <0.01 | <0.01 | 0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 4417425 |
| Total Bismuth (Bi) | ug/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 4417425 |
| Total Boron (B) | ug/L | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | 50 | 4417425 |
| Total Cadmium (Cd) | ug/L | 0.109 | 0.043 | 0.026 | 0.033 | 0.008 | <0.005 | 0.011 | 0.046 | <0.005 | 0.006 | 0.005 | 4417425 |
| Total Chromium (Cr) | ug/L | 0.1 | 0.1 | 0.3 | <0.1 | <0.1 | <0.1 | 0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 4417425 |
| Total Cobalt (Co) | ug/L | 0.139 | 0.056 | 0.061 | 0.123 | 0.017 | 0.028 | 0.016 | 0.010 | 0.051 | 0.014 | 0.005 | 4417425 |
| Total Copper (Cu) | ug/L | 0.86 | 0.65 | 1.08 | 1.00 | 0.45 | 0.31 | 0.41 | 0.62 | 0.36 | 0.28 | 0.05 | 4417425 |
| Total Iron (Fe) | ug/L | 92 | 42 | 387 | 258 | 18 | 87 | 21 | 5 | 203 | 6 | 1 | 4417425 |
| Total Lead (Pb) | ug/L | 0.114 | 0.115 | 0.865 | 0.891 | 0.083 | 0.032 | 0.105 | 0.137 | 0.036 | 0.052 | 0.005 | 4417425 |
| Total Lithium (Li) | ug/L | 3.4 | 4.6 | 6.8 | 0.7 | <0.5 | 1.1 | 2.3 | 6.3 | 2.1 | 2.0 | 0.5 | 4417425 |
| Total Manganese (Mn) | ug/L | 203 | 6.13 | 34.4 | 49.6 | 1.35 | 11.0 | 0.83 | 0.18 | 61.2 | 0.23 | 0.05 | 4417425 |
| Total Mercury (Hg) | ug/L | 0.01 | 0.01 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 4417425 |
| Total Molybdenum (Mo) | ug/L | 1.19 | 1.02 | 0.52 | 0.08 | 0.14 | 0.30 | 0.07 | 0.25 | 0.25 | 0.13 | 0.05 | 4417425 |
| Total Nickel (Ni) | ug/L | 3.10 | 1.36 | 0.40 | 0.43 | 0.16 | 0.16 | 0.24 | 0.44 | 0.33 | 0.21 | 0.02 | 4417425 |
| Total Selenium (Se) | ug/L | 0.76 | 0.85 | 2.43 | <0.04 | <0.04 | <0.04 | <0.04 | 0.24 | 0.14 | 0.07 | 0.04 | 4417425 |
| Total Silicon (Si) | ug/L | 3960 | 4940 | 6110 | 6040 | 4890 | 4260 | 7150 | 6340 | 4740 | 4930 | 100 | 4417425 |
| Total Silver (Ag) | ug/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 4417425 |
| Total Strontium (Sr) | ug/L | 242 | 286 | 374 | 100 | 56.9 | 59.8 | 29.3 | 225 | 181 | 122 | 0.05 | 4417425 |
| Total Tellurium (Te) | ug/L | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | 0.02 | 4417425 |
| Total Thallium (Tl) | ug/L | 0.003 | 0.005 | <0.002 | 0.004 | 0.002 | <0.002 | <0.002 | 0.003 | <0.002 | <0.002 | 0.002 | 4417425 |
| Total Thorium (Th) | ug/L | <0.005 | <0.005 | 0.007 | 0.019 | 0.011 | 0.006 | 0.009 | <0.005 | <0.005 | <0.005 | 0.005 | 4417425 |
| Total Tin (Sn) | ug/L | <0.01 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 4417425 |
| Total Titanium (Ti) | ug/L | <0.5 | <0.5 | 1.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 4417425 |
| Total Uranium (U) | ug/L | 1.33 | 6.15 | 4.05 | 1.29 | 0.457 | 0.464 | 0.080 | 1.26 | 1.74 | 2.14 | 0.002 | 4417425 |
| Total Vanadium (V) | ug/L | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 0.2 | 4417425 |
| Total Zinc (Zn) | ug/L | 4.5 | 7.4 | 7.0 | 21.9 | 1.2 | 0.3 | 2.2 | 10.3 | 0.7 | 0.6 | 0.1 | 4417425 |
| Total Zirconium (Zr) | ug/L | <0.1 | <0.1 | <0.1 | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 4417425 |
| Total Calcium (Ca) | mg/L | 49.7 | 70.4 | 80.6 | 23.7 | 10.5 | 9.61 | 4.56 | 54.6 | 31.6 | 18.4 | 0.05 | 4410979 |
| Total Magnesium (Mg) | mg/L | 15.9 | 31.2 | 25.8 | 6.17 | 2.12 | 1.64 | 1.06 | 7.16 | 5.95 | 2.58 | 0.05 | 4410979 |

RDL = Reportable Detection Limit

Maxxam Job #: B0A8919
 Report Date: 2010/11/18

ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

Your P.O. #: SFN-10-01

LOW LEVEL TOTAL METALS IN WATER (WATER)

| Maxxam ID | | Y28421 | Y28422 | Y28423 | Y28424 | Y28425 | Y28426 | Y28427 | Y28429 | Y28430 | Y28431 | | |
|---------------------|-------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------|----------|
| Sampling Date | | 2010/11/02 | 2010/11/02 | 2010/11/03 | 2010/11/03 | 2010/11/03 | 2010/11/03 | 2010/11/03 | 2010/11/03 | 2010/11/03 | 2010/11/03 | | |
| | Units | P5 | V8 | V20A | V17A | VR | USFR | FC | NWID | R1 | K8 | RDL | QC Batch |
| Total Potassium (K) | mg/L | 1.68 | 1.03 | 1.23 | 0.32 | 0.34 | 0.32 | 0.14 | 1.46 | 0.89 | 0.45 | 0.05 | 4410979 |
| Total Sodium (Na) | mg/L | 3.93 | 3.92 | 3.75 | 2.11 | 1.73 | 1.86 | 2.25 | 3.02 | 2.37 | 2.01 | 0.05 | 4410979 |
| Total Sulphur (S) | mg/L | 22 | 51 | <10 | 15 | <10 | <10 | <10 | 14 | <10 | <10 | 10 | 4410979 |

RDL = Reportable Detection Limit

Maxxam Job #: B0A8919
 Report Date: 2010/11/18

 ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

Your P.O. #: SFN-10-01

LOW LEVEL TOTAL METALS IN WATER (WATER)

| Maxxam ID | | Y28432 | Y28456 | Y28457 | Y28458 | Y28459 | Y28460 | Y28461 | Y28462 | Y28463 | | |
|------------------------------|-------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------|----------|
| Sampling Date | | 2010/11/03 | 2010/11/04 | 2010/11/04 | 2010/11/04 | 2010/11/04 | 2010/11/04 | 2010/11/04 | 2010/11/04 | 2010/11/04 | | |
| | Units | GCULV | R4 | R5 | R6 | A1 | P4 | P1 | VG MAIN | TRIP BLANK | RDL | QC Batch |
| Calculated Parameters | | | | | | | | | | | | |
| Total Hardness (CaCO3) | mg/L | 31.8 | 178 | 187 | 159 | 157 | 203 | 209 | 282 | <0.5 | 0.5 | 4410325 |
| Total Metals by ICPMS | | | | | | | | | | | | |
| Total Aluminum (Al) | ug/L | 10.5 | 3.6 | 4.6 | 5.4 | 65.5 | 24.3 | 17.0 | 3.9 | <0.2 | 0.2 | 4417425 |
| Total Antimony (Sb) | ug/L | 0.03 | 0.09 | 0.09 | 0.13 | 0.12 | 0.17 | 0.19 | 0.12 | <0.02 | 0.02 | 4417425 |
| Total Arsenic (As) | ug/L | 0.24 | 0.23 | 0.27 | 0.36 | 0.74 | 0.71 | 0.45 | 0.41 | <0.02 | 0.02 | 4417425 |
| Total Barium (Ba) | ug/L | 31.3 | 62.9 | 65.6 | 79.8 | 70.3 | 83.6 | 80.3 | 54.1 | <0.02 | 0.02 | 4417425 |
| Total Beryllium (Be) | ug/L | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 4417425 |
| Total Bismuth (Bi) | ug/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 4417425 |
| Total Boron (B) | ug/L | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | 50 | 4417425 |
| Total Cadmium (Cd) | ug/L | <0.005 | 0.023 | 0.021 | 0.007 | 0.023 | 0.080 | 0.114 | 0.052 | <0.005 | 0.005 | 4417425 |
| Total Chromium (Cr) | ug/L | <0.1 | 0.1 | 0.1 | <0.1 | 0.3 | 0.1 | <0.1 | 0.4 | <0.1 | 0.1 | 4417425 |
| Total Cobalt (Co) | ug/L | 0.021 | 0.077 | 0.079 | 0.023 | 0.144 | 0.086 | 0.042 | 0.083 | <0.005 | 0.005 | 4417425 |
| Total Copper (Cu) | ug/L | 0.30 | 0.46 | 0.49 | 0.39 | 0.80 | 0.72 | 0.70 | 0.63 | <0.05 | 0.05 | 4417425 |
| Total Iron (Fe) | ug/L | 70 | 82 | 86 | 83 | 152 | 92 | 69 | 29 | <1 | 1 | 4417425 |
| Total Lead (Pb) | ug/L | 0.030 | 0.164 | 0.131 | 0.025 | 0.472 | 0.165 | 0.066 | 0.077 | <0.005 | 0.005 | 4417425 |
| Total Lithium (Li) | ug/L | 1.2 | 3.7 | 3.7 | 2.3 | 3.4 | 3.8 | 3.8 | 3.9 | <0.5 | 0.5 | 4417425 |
| Total Manganese (Mn) | ug/L | 7.59 | 198 | 178 | 8.21 | 46.8 | 24.5 | 11.0 | 6.05 | <0.05 | 0.05 | 4417425 |
| Total Mercury (Hg) | ug/L | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 4417425 |
| Total Molybdenum (Mo) | ug/L | 0.33 | 0.56 | 0.65 | 1.20 | 0.94 | 1.34 | 1.32 | 0.74 | <0.05 | 0.05 | 4417425 |
| Total Nickel (Ni) | ug/L | 0.14 | 1.02 | 1.02 | 0.32 | 0.91 | 2.39 | 3.17 | 1.63 | <0.02 | 0.02 | 4417425 |
| Total Selenium (Se) | ug/L | <0.04 | 0.49 | 0.60 | 0.80 | 0.61 | 0.96 | 1.18 | 0.50 | <0.04 | 0.04 | 4417425 |
| Total Silicon (Si) | ug/L | 4360 | 4630 | 5000 | 5030 | 4920 | 3770 | 3200 | 4720 | <100 | 100 | 4417425 |
| Total Silver (Ag) | ug/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 4417425 |
| Total Strontium (Sr) | ug/L | 62.9 | 200 | 198 | 135 | 157 | 221 | 232 | 259 | 0.07 | 0.05 | 4417425 |
| Total Tellurium (Te) | ug/L | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | 0.02 | 4417425 |
| Total Thallium (Tl) | ug/L | <0.002 | 0.006 | 0.006 | <0.002 | 0.004 | 0.003 | <0.002 | 0.007 | <0.002 | 0.002 | 4417425 |
| Total Thorium (Th) | ug/L | <0.005 | <0.005 | <0.005 | <0.005 | 0.006 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 4417425 |
| Total Tin (Sn) | ug/L | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 4417425 |
| Total Titanium (Ti) | ug/L | <0.5 | <0.5 | <0.5 | <0.5 | 3.2 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 4417425 |
| Total Uranium (U) | ug/L | 0.546 | 1.92 | 2.00 | 2.23 | 2.15 | 2.40 | 2.44 | 6.56 | <0.002 | 0.002 | 4417425 |
| Total Vanadium (V) | ug/L | <0.2 | <0.2 | <0.2 | <0.2 | 0.3 | 0.2 | <0.2 | <0.2 | <0.2 | 0.2 | 4417425 |
| Total Zinc (Zn) | ug/L | 1.0 | 12.3 | 10.7 | 0.4 | 4.8 | 4.3 | 8.7 | 13.0 | <0.1 | 0.1 | 4417425 |
| Total Zirconium (Zr) | ug/L | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 4417425 |
| Total Calcium (Ca) | mg/L | 9.93 | 51.9 | 54.8 | 45.2 | 45.5 | 52.8 | 52.8 | 66.4 | <0.05 | 0.05 | 4410979 |

RDL = Reportable Detection Limit

Maxxam Job #: B0A8919
 Report Date: 2010/11/18

ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

Your P.O. #: SFN-10-01

LOW LEVEL TOTAL METALS IN WATER (WATER)

| Maxxam ID | | Y28432 | Y28456 | Y28457 | Y28458 | Y28459 | Y28460 | Y28461 | Y28462 | Y28463 | | |
|----------------------|-------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------|----------|
| Sampling Date | | 2010/11/03 | 2010/11/04 | 2010/11/04 | 2010/11/04 | 2010/11/04 | 2010/11/04 | 2010/11/04 | 2010/11/04 | 2010/11/04 | | |
| | Units | GCULV | R4 | R5 | R6 | A1 | P4 | P1 | VG MAIN | TRIP BLANK | RDL | QC Batch |
| Total Magnesium (Mg) | mg/L | 1.71 | 11.8 | 12.1 | 11.3 | 10.6 | 17.3 | 18.7 | 28.2 | <0.05 | 0.05 | 4410979 |
| Total Potassium (K) | mg/L | 0.32 | 1.23 | 1.27 | 1.14 | 1.37 | 0.98 | 0.77 | 0.91 | <0.05 | 0.05 | 4410979 |
| Total Sodium (Na) | mg/L | 1.87 | 3.49 | 3.48 | 1.96 | 2.96 | 2.73 | 2.26 | 3.66 | <0.05 | 0.05 | 4410979 |
| Total Sulphur (S) | mg/L | <10 | 28 | 26 | <10 | 17 | 24 | 27 | 52 | <10 | 10 | 4410979 |

RDL = Reportable Detection Limit

Maxxam Job #: B0A8919
 Report Date: 2010/11/18

 ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

Your P.O. #: SFN-10-01

LOW LEVEL TOTAL METALS IN WATER (WATER)

| Maxxam ID | | Y28710 | | Y28711 | Y28712 | Y28713 | Y28714 | Y28715 | | |
|------------------------------|-------|--------|----------|--------|--------|-----------|-------------|--------|-------|----------|
| | Units | VM1 | QC Batch | VM2 | VM3 | DUPLICATE | FIELD BLANK | X14 | RDL | QC Batch |
| Calculated Parameters | | | | | | | | | | |
| Total Hardness (CaCO3) | mg/L | 189 | 4410325 | 391 | 88.5 | 150 | <0.5 | 203 | 0.5 | 4410325 |
| Total Metals by ICPMS | | | | | | | | | | |
| Total Aluminum (Al) | ug/L | 8.6 | 4417425 | 3.9 | 20.5 | 4.4 | 1.2 | 4.6 | 0.2 | 4417698 |
| Total Antimony (Sb) | ug/L | 0.04 | 4417425 | 0.28 | 0.03 | 0.10 | <0.02 | 0.05 | 0.02 | 4417698 |
| Total Arsenic (As) | ug/L | 0.56 | 4417425 | 0.39 | 0.78 | 0.41 | <0.02 | 0.32 | 0.02 | 4417698 |
| Total Barium (Ba) | ug/L | 64.0 | 4417425 | 99.7 | 31.5 | 77.1 | <0.02 | 59.4 | 0.02 | 4417698 |
| Total Beryllium (Be) | ug/L | <0.01 | 4417425 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 4417698 |
| Total Bismuth (Bi) | ug/L | <0.005 | 4417425 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 4417698 |
| Total Boron (B) | ug/L | <50 | 4417425 | <50 | <50 | <50 | <50 | <50 | 50 | 4417698 |
| Total Cadmium (Cd) | ug/L | 0.007 | 4417425 | 0.115 | 0.031 | 0.009 | <0.005 | 0.042 | 0.005 | 4417698 |
| Total Chromium (Cr) | ug/L | <0.1 | 4417425 | 0.2 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 4417698 |
| Total Cobalt (Co) | ug/L | 0.068 | 4417425 | 0.018 | 0.061 | 0.024 | <0.005 | 0.900 | 0.005 | 4417698 |
| Total Copper (Cu) | ug/L | 0.42 | 4417425 | 0.45 | 0.45 | 0.34 | <0.05 | 0.35 | 0.05 | 4417698 |
| Total Iron (Fe) | ug/L | 106 | 4417425 | 6 | 113 | 80 | <1 | 306 | 1 | 4417698 |
| Total Lead (Pb) | ug/L | 0.058 | 4417425 | 0.020 | 0.384 | 0.023 | <0.005 | 0.179 | 0.005 | 4417698 |
| Total Lithium (Li) | ug/L | 3.2 | 4417425 | 3.7 | 0.8 | 2.3 | <0.5 | 5.1 | 0.5 | 4417698 |
| Total Manganese (Mn) | ug/L | 52.9 | 4417425 | 0.19 | 13.2 | 7.97 | <0.05 | 1200 | 0.05 | 4417698 |
| Total Mercury (Hg) | ug/L | <0.01 | 4417425 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 4417698 |
| Total Molybdenum (Mo) | ug/L | 0.45 | 4417425 | 3.50 | 0.22 | 1.16 | <0.05 | 0.56 | 0.05 | 4417698 |
| Total Nickel (Ni) | ug/L | 0.50 | 4417425 | 1.29 | 0.28 | 0.27 | <0.02 | 2.48 | 0.02 | 4417698 |
| Total Selenium (Se) | ug/L | 0.17 | 4417425 | 3.39 | 0.12 | 0.76 | <0.04 | 0.26 | 0.04 | 4417698 |
| Total Silicon (Si) | ug/L | 5080 | 4417425 | 4350 | 5330 | 4570 | <100 | 5150 | 100 | 4417698 |
| Total Silver (Ag) | ug/L | <0.005 | 4417425 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 4417698 |
| Total Strontium (Sr) | ug/L | 225 | 4417425 | 327 | 110 | 133 | <0.05 | 224 | 0.05 | 4417698 |
| Total Tellurium (Te) | ug/L | <0.02 | 4417425 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | 0.02 | 4417698 |
| Total Thallium (Tl) | ug/L | <0.002 | 4417425 | <0.002 | 0.003 | <0.002 | <0.002 | 0.004 | 0.002 | 4417698 |
| Total Thorium (Th) | ug/L | <0.005 | 4417425 | <0.005 | 0.009 | <0.005 | <0.005 | <0.005 | 0.005 | 4417698 |
| Total Tin (Sn) | ug/L | <0.01 | 4417425 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 4417698 |
| Total Titanium (Ti) | ug/L | <0.5 | 4417425 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 4417698 |
| Total Uranium (U) | ug/L | 2.61 | 4417425 | 7.74 | 1.78 | 2.14 | 0.002 | 2.24 | 0.002 | 4417698 |
| Total Vanadium (V) | ug/L | <0.2 | 4417425 | 1.1 | <0.2 | <0.2 | <0.2 | <0.2 | 0.2 | 4417698 |
| Total Zinc (Zn) | ug/L | 2.0 | 4417425 | 6.6 | 14.9 | 1.7 | <0.1 | 34.7 | 0.1 | 4417698 |
| Total Zirconium (Zr) | ug/L | <0.1 | 4417425 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 4417698 |
| Total Calcium (Ca) | mg/L | 48.9 | 4410979 | 96.3 | 26.1 | 42.1 | <0.05 | 59.1 | 0.05 | 4410979 |
| Total Magnesium (Mg) | mg/L | 16.3 | 4410979 | 36.6 | 5.65 | 11.0 | <0.05 | 13.4 | 0.05 | 4410979 |

RDL = Reportable Detection Limit

Maxxam Job #: B0A8919
 Report Date: 2010/11/18

ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

Your P.O. #: SFN-10-01

LOW LEVEL TOTAL METALS IN WATER (WATER)

| Maxxam ID | | Y28710 | | Y28711 | Y28712 | Y28713 | Y28714 | Y28715 | | |
|---------------------|-------|--------|----------|--------|--------|-----------|-------------|--------|------|----------|
| | Units | VM1 | QC Batch | VM2 | VM3 | DUPLICATE | FIELD BLANK | X14 | RDL | QC Batch |
| Total Potassium (K) | mg/L | 0.73 | 4410979 | 1.01 | 0.36 | 1.12 | <0.05 | 1.24 | 0.05 | 4410979 |
| Total Sodium (Na) | mg/L | 3.38 | 4410979 | 2.55 | 1.89 | 1.91 | <0.05 | 4.43 | 0.05 | 4410979 |
| Total Sulphur (S) | mg/L | 17 | 4410979 | 40 | <10 | <10 | <10 | 34 | 10 | 4410979 |

RDL = Reportable Detection Limit

| | |
|-----------|-------|
| Package 1 | 5.3°C |
| Package 2 | 5.0°C |
| Package 3 | 5.3°C |
| Package 4 | 0.0°C |

Each temperature is the average of up to three cooler temperatures taken at receipt

RESULTS OF CHEMICAL ANALYSES OF WATER Comments

- Sample Y28421-01 Colour (True): Sample received past method-specified hold time.
- Sample Y28422-01 Colour (True): Sample received past method-specified hold time.
- Sample Y28423-01 Colour (True): Sample received past method-specified hold time.
- Sample Y28424-01 Colour (True): Sample received past method-specified hold time.
- Sample Y28425-01 Colour (True): Sample received past method-specified hold time.
- Sample Y28426-01 Colour (True): Sample received past method-specified hold time.
- Sample Y28427-01 Colour (True): Sample received past method-specified hold time.
- Sample Y28429-01 Colour (True): Sample received past method-specified hold time.
- Sample Y28430-01 Colour (True): Sample received past method-specified hold time.
- Sample Y28431-01 Colour (True): Sample received past method-specified hold time.
- Sample Y28432-01 Colour (True): Sample received past method-specified hold time.
- Sample Y28456-01 Colour (True): Sample received past method-specified hold time.
- Sample Y28457-01 Colour (True): Sample received past method-specified hold time.
- Sample Y28458-01 Colour (True): Sample received past method-specified hold time.
- Sample Y28459-01 Colour (True): Sample received past method-specified hold time.
- Sample Y28460-01 Colour (True): Sample received past method-specified hold time.
- Sample Y28461-01 Colour (True): Sample received past method-specified hold time.

Maxxam Job #: B0A8919
Report Date: 2010/11/18

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

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Sample Y28462-01 Colour (True): Sample received past method-specified hold time.

Sample Y28431, Elements by ICPMS Low Level (dissolved): Test repeated.

Sample Y28458, Elements by ICPMS Low Level (dissolved): Test repeated.

Maxxam Job #: B0A8919
 Report Date: 2010/11/18

 ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

Your P.O. #: SFN-10-01

QUALITY ASSURANCE REPORT

| QC Batch | Parameter | Date | Matrix Spike | | Spiked Blank | | Method Blank | | RPD | |
|----------|--|------------|--------------|-----------|--------------|-----------|--------------|-----------|-----------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | Units | Value (%) | QC Limits |
| 4410402 | Total Suspended Solids | 2010/11/09 | 105 | 80 - 120 | 100 | 80 - 120 | <4 | mg/L | NC | 25 |
| 4410491 | Total Dissolved Solids | 2010/11/09 | 106 | 80 - 120 | 98 | 80 - 120 | <10 | mg/L | 2.3 | 20 |
| 4411171 | Conductivity | 2010/11/09 | | | 102 | 80 - 120 | <1 | uS/cm | 0 | 20 |
| 4411172 | Alkalinity (Total as CaCO ₃) | 2010/11/09 | NC | 80 - 120 | 98 | 80 - 120 | <0.5 | mg/L | 0.2 | 20 |
| 4411172 | Alkalinity (PP as CaCO ₃) | 2010/11/09 | | | | | <0.5 | mg/L | NC | 20 |
| 4411172 | Bicarbonate (HCO ₃) | 2010/11/09 | | | | | <0.5 | mg/L | 0.2 | 20 |
| 4411172 | Carbonate (CO ₃) | 2010/11/09 | | | | | <0.5 | mg/L | NC | 20 |
| 4411172 | Hydroxide (OH) | 2010/11/09 | | | | | <0.5 | mg/L | NC | 20 |
| 4411765 | True Colour | 2010/11/09 | | | | | <5 | Col. Unit | NC | N/A |
| 4411931 | Ammonia (N) | 2010/11/09 | NC | 80 - 120 | 97 | 80 - 120 | <0.005 | mg/L | 4.2 | 20 |
| 4412156 | Nitrate plus Nitrite (N) | 2010/11/09 | 100 | 80 - 120 | 98 | 80 - 120 | <0.02 | mg/L | NC | 25 |
| 4412287 | Nitrite (N) | 2010/11/09 | 109 | 80 - 120 | 99 | 80 - 120 | <0.005 | mg/L | NC | 20 |
| 4413378 | Total Phosphorus (P) | 2010/11/10 | 101 | 80 - 120 | 95 | 80 - 120 | <0.005 | mg/L | NC | 20 |
| 4414735 | Total Suspended Solids | 2010/11/10 | 100 | 80 - 120 | 101 | 80 - 120 | <4 | mg/L | NC | 25 |
| 4414776 | Total Dissolved Solids | 2010/11/10 | 106 | 80 - 120 | 92 | 80 - 120 | <10 | mg/L | 2.8 | 20 |
| 4414789 | Dissolved Chloride (Cl) | 2010/11/09 | 98 | 80 - 120 | 107 | 80 - 120 | <0.5 | mg/L | NC | 20 |
| 4414796 | Dissolved Sulphate (SO ₄) | 2010/11/09 | NC | 80 - 120 | 105 | 80 - 120 | <0.5 | mg/L | 0.4 | 20 |
| 4415924 | Ammonia (N) | 2010/11/10 | NC | 80 - 120 | 99 | 80 - 120 | <0.005 | mg/L | 0.4 | 20 |
| 4416212 | Fluoride (F) | 2010/11/10 | 103 | 80 - 120 | 95 | 80 - 120 | <0.01 | mg/L | 1.4 | 20 |
| 4417425 | Total Arsenic (As) | 2010/11/15 | 104 | 80 - 120 | 101 | 80 - 120 | <0.02 | ug/L | 1.5 | 20 |
| 4417425 | Total Beryllium (Be) | 2010/11/15 | 109 | 80 - 120 | 101 | 80 - 120 | <0.01 | ug/L | NC | 20 |
| 4417425 | Total Cadmium (Cd) | 2010/11/15 | 107 | 80 - 120 | 103 | 80 - 120 | <0.005 | ug/L | 17.7 | 20 |
| 4417425 | Total Chromium (Cr) | 2010/11/15 | 105 | 80 - 120 | 105 | 80 - 120 | <0.1 | ug/L | NC | 20 |
| 4417425 | Total Cobalt (Co) | 2010/11/15 | 102 | 80 - 120 | 103 | 80 - 120 | <0.005 | ug/L | 4.0 | 20 |
| 4417425 | Total Copper (Cu) | 2010/11/15 | 103 | 80 - 120 | 106 | 80 - 120 | <0.05 | ug/L | 2.7 | 20 |
| 4417425 | Total Lead (Pb) | 2010/11/15 | 103 | 80 - 120 | 104 | 80 - 120 | <0.005 | ug/L | 3.2 | 20 |
| 4417425 | Total Lithium (Li) | 2010/11/15 | 106 | 80 - 120 | 104 | 80 - 120 | <0.5 | ug/L | 6.0 | 20 |
| 4417425 | Total Nickel (Ni) | 2010/11/15 | 101 | 80 - 120 | 105 | 80 - 120 | <0.02 | ug/L | 0.5 | 20 |
| 4417425 | Total Selenium (Se) | 2010/11/15 | 106 | 80 - 120 | 97 | 80 - 120 | <0.04 | ug/L | 15.9 | 20 |
| 4417425 | Total Uranium (U) | 2010/11/15 | 108 | 80 - 120 | 107 | 80 - 120 | <0.002 | ug/L | 0.7 | 20 |
| 4417425 | Total Vanadium (V) | 2010/11/15 | 107 | 80 - 120 | 103 | 80 - 120 | <0.2 | ug/L | NC | 20 |
| 4417425 | Total Zinc (Zn) | 2010/11/15 | 103 | 80 - 120 | 103 | 80 - 120 | <0.1 | ug/L | 3.6 | 20 |
| 4417425 | Total Aluminum (Al) | 2010/11/15 | | | | | <0.2 | ug/L | 2.4 | 20 |
| 4417425 | Total Antimony (Sb) | 2010/11/15 | | | | | <0.02 | ug/L | 2.4 | 20 |
| 4417425 | Total Barium (Ba) | 2010/11/15 | | | | | <0.02 | ug/L | 0.8 | 20 |
| 4417425 | Total Bismuth (Bi) | 2010/11/15 | | | | | <0.005 | ug/L | NC | 20 |
| 4417425 | Total Boron (B) | 2010/11/15 | | | | | <50 | ug/L | NC | 20 |
| 4417425 | Total Iron (Fe) | 2010/11/15 | | | | | <1 | ug/L | 0.7 | 20 |
| 4417425 | Total Manganese (Mn) | 2010/11/15 | | | | | <0.05 | ug/L | 1.9 | 20 |

Maxxam Job #: B0A8919
 Report Date: 2010/11/18

 ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

Your P.O. #: SFN-10-01

QUALITY ASSURANCE REPORT

| QC Batch | Parameter | Date | Matrix Spike | | Spiked Blank | | Method Blank | | RPD | |
|----------|-----------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | Units | Value (%) | QC Limits |
| 4417425 | Total Mercury (Hg) | 2010/11/15 | | | | | <0.01 | ug/L | NC | 20 |
| 4417425 | Total Molybdenum (Mo) | 2010/11/15 | | | | | <0.05 | ug/L | 3.2 | 20 |
| 4417425 | Total Silicon (Si) | 2010/11/15 | | | | | <100 | ug/L | 0.8 | 20 |
| 4417425 | Total Silver (Ag) | 2010/11/15 | | | | | <0.005 | ug/L | NC | 20 |
| 4417425 | Total Strontium (Sr) | 2010/11/15 | | | | | <0.05 | ug/L | 3.1 | 20 |
| 4417425 | Total Tellurium (Te) | 2010/11/15 | | | | | <0.02 | ug/L | | |
| 4417425 | Total Thallium (Tl) | 2010/11/15 | | | | | <0.002 | ug/L | NC | 20 |
| 4417425 | Total Thorium (Th) | 2010/11/15 | | | | | <0.005 | ug/L | | |
| 4417425 | Total Tin (Sn) | 2010/11/15 | | | | | <0.01 | ug/L | NC | 20 |
| 4417425 | Total Titanium (Ti) | 2010/11/15 | | | | | <0.5 | ug/L | NC | 20 |
| 4417425 | Total Zirconium (Zr) | 2010/11/15 | | | | | <0.1 | ug/L | NC | 20 |
| 4417698 | Total Arsenic (As) | 2010/11/16 | 109 | 80 - 120 | 102 | 80 - 120 | <0.02 | ug/L | 0.8 | 20 |
| 4417698 | Total Beryllium (Be) | 2010/11/16 | 101 | 80 - 120 | 96 | 80 - 120 | <0.01 | ug/L | NC | 20 |
| 4417698 | Total Cadmium (Cd) | 2010/11/16 | 110 | 80 - 120 | 99 | 80 - 120 | <0.005 | ug/L | 6.7 | 20 |
| 4417698 | Total Chromium (Cr) | 2010/11/16 | 114 | 80 - 120 | 103 | 80 - 120 | <0.1 | ug/L | NC | 20 |
| 4417698 | Total Cobalt (Co) | 2010/11/16 | 108 | 80 - 120 | 105 | 80 - 120 | <0.005 | ug/L | NC | 20 |
| 4417698 | Total Copper (Cu) | 2010/11/16 | 110 | 80 - 120 | 108 | 80 - 120 | <0.05 | ug/L | 2.0 | 20 |
| 4417698 | Total Lead (Pb) | 2010/11/16 | 99 | 80 - 120 | 100 | 80 - 120 | <0.005 | ug/L | NC | 20 |
| 4417698 | Total Lithium (Li) | 2010/11/16 | 98 | 80 - 120 | 99 | 80 - 120 | <0.5 | ug/L | 1.9 | 20 |
| 4417698 | Total Nickel (Ni) | 2010/11/16 | 110 | 80 - 120 | 105 | 80 - 120 | <0.02 | ug/L | 4.9 | 20 |
| 4417698 | Total Selenium (Se) | 2010/11/16 | 102 | 80 - 120 | 99 | 80 - 120 | <0.04 | ug/L | 1.6 | 20 |
| 4417698 | Total Uranium (U) | 2010/11/16 | NC | 80 - 120 | 102 | 80 - 120 | <0.002 | ug/L | 1.3 | 20 |
| 4417698 | Total Vanadium (V) | 2010/11/16 | 115 | 80 - 120 | 103 | 80 - 120 | <0.2 | ug/L | 4.6 | 20 |
| 4417698 | Total Zinc (Zn) | 2010/11/16 | NC | 80 - 120 | 111 | 80 - 120 | <0.1 | ug/L | 17.4 | 20 |
| 4417698 | Total Aluminum (Al) | 2010/11/16 | | | | | <0.2 | ug/L | 3.9 | 20 |
| 4417698 | Total Antimony (Sb) | 2010/11/16 | | | | | <0.02 | ug/L | 1.4 | 20 |
| 4417698 | Total Barium (Ba) | 2010/11/16 | | | | | <0.02 | ug/L | 0.4 | 20 |
| 4417698 | Total Bismuth (Bi) | 2010/11/16 | | | | | <0.005 | ug/L | NC | 20 |
| 4417698 | Total Boron (B) | 2010/11/16 | | | | | <50 | ug/L | NC | 20 |
| 4417698 | Total Iron (Fe) | 2010/11/16 | | | | | <1 | ug/L | 1.9 | 20 |
| 4417698 | Total Manganese (Mn) | 2010/11/16 | | | | | <0.05 | ug/L | NC | 20 |
| 4417698 | Total Mercury (Hg) | 2010/11/16 | | | | | <0.01 | ug/L | NC | 20 |
| 4417698 | Total Molybdenum (Mo) | 2010/11/16 | | | | | <0.05 | ug/L | 2.0 | 20 |
| 4417698 | Total Silicon (Si) | 2010/11/16 | | | | | <100 | ug/L | 1.2 | 20 |
| 4417698 | Total Silver (Ag) | 2010/11/16 | | | | | <0.005 | ug/L | NC | 20 |
| 4417698 | Total Strontium (Sr) | 2010/11/16 | | | | | <0.05 | ug/L | 0.9 | 20 |
| 4417698 | Total Tellurium (Te) | 2010/11/16 | | | | | <0.02 | ug/L | | |
| 4417698 | Total Thallium (Tl) | 2010/11/16 | | | | | <0.002 | ug/L | NC | 20 |
| 4417698 | Total Thorium (Th) | 2010/11/16 | | | | | <0.005 | ug/L | | |

Maxxam Job #: B0A8919
 Report Date: 2010/11/18

 ACCESS CONSULTING GROUP
 Client Project #: SFN-07-01

Your P.O. #: SFN-10-01

QUALITY ASSURANCE REPORT

| QC Batch | Parameter | Date | Matrix Spike | | Spiked Blank | | Method Blank | | RPD | |
|----------|---------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|---------------------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | Units | Value (%) | QC Limits |
| 4417698 | Total Tin (Sn) | 2010/11/16 | | | | | <0.01 | ug/L | NC | 20 |
| 4417698 | Total Titanium (Ti) | 2010/11/16 | | | | | <0.5 | ug/L | NC | 20 |
| 4417698 | Total Zirconium (Zr) | 2010/11/16 | | | | | <0.1 | ug/L | NC | 20 |
| 4421486 | Dissolved Arsenic (As) | 2010/11/16 | 101 | 80 - 120 | 100 | 80 - 120 | <0.02 | ug/L | 0.3 | 20 |
| 4421486 | Dissolved Beryllium (Be) | 2010/11/16 | 106 | 80 - 120 | 103 | 80 - 120 | <0.01 | ug/L | NC | 20 |
| 4421486 | Dissolved Cadmium (Cd) | 2010/11/16 | 104 | 80 - 120 | 101 | 80 - 120 | <0.005 | ug/L | 11.8 | 20 |
| 4421486 | Dissolved Chromium (Cr) | 2010/11/16 | 105 | 80 - 120 | 105 | 80 - 120 | <0.1 | ug/L | NC | 20 |
| 4421486 | Dissolved Cobalt (Co) | 2010/11/16 | 102 | 80 - 120 | 105 | 80 - 120 | <0.005 | ug/L | 10 | 20 |
| 4421486 | Dissolved Copper (Cu) | 2010/11/16 | 99 | 80 - 120 | 107 | 80 - 120 | <0.05 | ug/L | 4.0 | 20 |
| 4421486 | Dissolved Lead (Pb) | 2010/11/16 | 101 | 80 - 120 | 106 | 80 - 120 | <0.005 | ug/L | 2.5 | 20 |
| 4421486 | Dissolved Lithium (Li) | 2010/11/16 | 103 | 80 - 120 | 105 | 80 - 120 | <0.5 | ug/L | 1.1 | 20 |
| 4421486 | Dissolved Nickel (Ni) | 2010/11/16 | 98 | 80 - 120 | 104 | 80 - 120 | <0.02 | ug/L | 0.7 | 20 |
| 4421486 | Dissolved Selenium (Se) | 2010/11/16 | 105 | 80 - 120 | 104 | 80 - 120 | <0.04 | ug/L | 1.2 | 20 |
| 4421486 | Dissolved Uranium (U) | 2010/11/16 | 108 | 80 - 120 | 109 | 80 - 120 | <0.002 | ug/L | 1.6 | 20 |
| 4421486 | Dissolved Vanadium (V) | 2010/11/16 | 101 | 80 - 120 | 103 | 80 - 120 | <0.2 | ug/L | NC | 20 |
| 4421486 | Dissolved Zinc (Zn) | 2010/11/16 | NC | 80 - 120 | 101 | 80 - 120 | <0.1 | ug/L | 3.9 | 20 |
| 4421486 | Dissolved Aluminum (Al) | 2010/11/16 | | | | | 0.2, RDL=0.2 | ug/L | 4.6 | 20 |
| 4421486 | Dissolved Antimony (Sb) | 2010/11/16 | | | | | <0.02 | ug/L | 1.6 | 20 |
| 4421486 | Dissolved Barium (Ba) | 2010/11/16 | | | | | <0.02 | ug/L | 0.04 | 20 |
| 4421486 | Dissolved Bismuth (Bi) | 2010/11/16 | | | | | <0.005 | ug/L | NC | 20 |
| 4421486 | Dissolved Boron (B) | 2010/11/16 | | | | | <50 | ug/L | NC | 20 |
| 4421486 | Dissolved Iron (Fe) | 2010/11/16 | | | | | <1 | ug/L | 1.3 | 20 |
| 4421486 | Dissolved Manganese (Mn) | 2010/11/16 | | | | | <0.05 | ug/L | 0.5 | 20 |
| 4421486 | Dissolved Molybdenum (Mo) | 2010/11/16 | | | | | <0.05 | ug/L | 3.4 | 20 |
| 4421486 | Dissolved Silicon (Si) | 2010/11/16 | | | | | <100 | ug/L | 0.1 | 20 |
| 4421486 | Dissolved Silver (Ag) | 2010/11/16 | | | | | <0.005 | ug/L | NC | 20 |
| 4421486 | Dissolved Strontium (Sr) | 2010/11/16 | | | | | <0.05 | ug/L | 0.7 | 20 |
| 4421486 | Dissolved Thallium (Tl) | 2010/11/16 | | | | | <0.002 | ug/L | NC | 20 |
| 4421486 | Dissolved Tin (Sn) | 2010/11/16 | | | | | <0.01 | ug/L | NC | 20 |
| 4421486 | Dissolved Titanium (Ti) | 2010/11/16 | | | | | <0.5 | ug/L | NC | 20 |
| 4421486 | Dissolved Zirconium (Zr) | 2010/11/16 | | | | | <0.1 | ug/L | NC | 20 |
| 4423025 | Dissolved Arsenic (As) | 2010/11/15 | 100 | 80 - 120 | 101 | 80 - 120 | <0.02 | ug/L | 2.7 | 20 |
| 4423025 | Dissolved Beryllium (Be) | 2010/11/15 | 106 | 80 - 120 | 105 | 80 - 120 | <0.01 | ug/L | NC | 20 |
| 4423025 | Dissolved Cadmium (Cd) | 2010/11/15 | 106 | 80 - 120 | 105 | 80 - 120 | <0.005 | ug/L | NC | 20 |
| 4423025 | Dissolved Chromium (Cr) | 2010/11/15 | 102 | 80 - 120 | 103 | 80 - 120 | <0.1 | ug/L | NC | 20 |
| 4423025 | Dissolved Cobalt (Co) | 2010/11/15 | 99 | 80 - 120 | 102 | 80 - 120 | <0.005 | ug/L | 26.6 ⁽¹⁾ | 20 |
| 4423025 | Dissolved Copper (Cu) | 2010/11/15 | 97 | 80 - 120 | 103 | 80 - 120 | <0.05 | ug/L | 3.9 | 20 |
| 4423025 | Dissolved Lead (Pb) | 2010/11/15 | 101 | 80 - 120 | 106 | 80 - 120 | <0.005 | ug/L | 10.2 | 20 |
| 4423025 | Dissolved Lithium (Li) | 2010/11/15 | 105 | 80 - 120 | 107 | 80 - 120 | <0.5 | ug/L | NC | 20 |

Maxxam Job #: B0A8919
Report Date: 2010/11/18

ACCESS CONSULTING GROUP
Client Project #: SFN-07-01

Your P.O. #: SFN-10-01

QUALITY ASSURANCE REPORT

| QC Batch | Parameter | Date | Matrix Spike | | Spiked Blank | | Method Blank | | RPD | |
|----------|--------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | Units | Value (%) | QC Limits |
| 4423025 | Dissolved Nickel (Ni) | 2010/11/15 | 99 | 80 - 120 | 100 | 80 - 120 | <0.02 | ug/L | 2.8 | 20 |
| 4423025 | Dissolved Selenium (Se) | 2010/11/15 | 102 | 80 - 120 | 106 | 80 - 120 | <0.04 | ug/L | NC | 20 |
| 4423025 | Dissolved Uranium (U) | 2010/11/15 | 105 | 80 - 120 | 109 | 80 - 120 | <0.002 | ug/L | 1.2 | 20 |
| 4423025 | Dissolved Vanadium (V) | 2010/11/15 | 100 | 80 - 120 | 104 | 80 - 120 | <0.2 | ug/L | NC | 20 |
| 4423025 | Dissolved Zinc (Zn) | 2010/11/15 | NC | 80 - 120 | 113 | 80 - 120 | <0.1 | ug/L | 0.3 | 20 |
| 4423025 | Dissolved Aluminum (Al) | 2010/11/15 | | | | | <0.2 | ug/L | 9.1 | 20 |
| 4423025 | Dissolved Antimony (Sb) | 2010/11/15 | | | | | <0.02 | ug/L | NC | 20 |
| 4423025 | Dissolved Barium (Ba) | 2010/11/15 | | | | | <0.02 | ug/L | 1.0 | 20 |
| 4423025 | Dissolved Bismuth (Bi) | 2010/11/15 | | | | | <0.005 | ug/L | NC | 20 |
| 4423025 | Dissolved Boron (B) | 2010/11/15 | | | | | <50 | ug/L | NC | 20 |
| 4423025 | Dissolved Iron (Fe) | 2010/11/15 | | | | | <1 | ug/L | 2.1 | 20 |
| 4423025 | Dissolved Manganese (Mn) | 2010/11/15 | | | | | <0.05 | ug/L | 1 | 20 |
| 4423025 | Dissolved Molybdenum (Mo) | 2010/11/15 | | | | | <0.05 | ug/L | NC | 20 |
| 4423025 | Dissolved Silicon (Si) | 2010/11/15 | | | | | <100 | ug/L | 1.3 | 20 |
| 4423025 | Dissolved Silver (Ag) | 2010/11/15 | | | | | <0.005 | ug/L | NC | 20 |
| 4423025 | Dissolved Strontium (Sr) | 2010/11/15 | | | | | <0.05 | ug/L | 0.5 | 20 |
| 4423025 | Dissolved Thallium (Tl) | 2010/11/15 | | | | | <0.002 | ug/L | NC | 20 |
| 4423025 | Dissolved Tin (Sn) | 2010/11/15 | | | | | <0.01 | ug/L | NC | 20 |
| 4423025 | Dissolved Titanium (Ti) | 2010/11/15 | | | | | <0.5 | ug/L | NC | 20 |
| 4423025 | Dissolved Zirconium (Zr) | 2010/11/15 | | | | | <0.1 | ug/L | NC | 20 |
| 4428103 | Total Organic Carbon (C) | 2010/11/15 | NC | 80 - 120 | 108 | 80 - 120 | <0.5 | mg/L | 9.2 | 20 |
| 4430847 | Total Organic Carbon (C) | 2010/11/16 | 104 | 80 - 120 | 99 | 80 - 120 | <0.5 | mg/L | 3.7 | 20 |
| 4431268 | Weak Acid Dissoc. Cyanide (CN) | 2010/11/16 | 100 | 80 - 120 | 107 | 80 - 120 | <0.0005 | mg/L | NC | 20 |
| 4437347 | Dissolved Copper (Cu) | 2010/11/18 | | | 102 | 80 - 120 | <0.05 | ug/L | | |
| 4437347 | Dissolved Nickel (Ni) | 2010/11/18 | | | 100 | 80 - 120 | <0.02 | ug/L | | |
| 4437347 | Dissolved Zinc (Zn) | 2010/11/18 | | | 99 | 80 - 120 | <0.1 | ug/L | | |
| 4437347 | Dissolved Iron (Fe) | 2010/11/18 | | | | | <1 | ug/L | | |

N/A = Not Applicable

RDL = Reportable Detection Limit

RPD = Relative Percent Difference

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.

NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

(1) - Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



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CHAIN-OF CU



08325031

ANALYSIS REQUEST

PAGE 1 OF 2

| | | |
|--|-------------------------|-----------------------|
| LAB USE ONLY MAXXAM JOB # BOA8919 | ANALYSIS REQUEST | LAB USE ONLY COC # |
|--|-------------------------|-----------------------|

| | |
|--|---|
| COMPANY NAME: Access Consulting Group | CLIENT PROJECT NO.: SFN-07-01 |
| COMPANY ADDRESS: #3 Calcite Business Center 151 Industrial Rd Whitehorse, YT Y1A 2V3 | TEL.: (867) 668-6463 david@accessconsulting.ca E-MAIL: paul@accessconsulting.ca marie@accessconsulting.ca FAX: (867) 668-6680 |
| SAMPLER NAME (PRINT): Stuart Van Bibber, Paul Inglis | PROJECT MANAGER: David Petkovich LABORATORY CONTACT: Kim Webber |

| FIELD SAMPLE ID | MAXXAM LAB # (LAB USE ONLY) | MATRIX | | | | | SAMPLING | | # CONTAINERS | General (Alk, EC, pH) | TSS (TDS) | Total Metals (Low Level) | Anions - (Cl, F, NH3, NO2, NO3, SO4) | Cyanide-WAD | Phosphorus | Dissolved Metals (low level) |
|-----------------|--------------------------------|-------------|---------------|----------------|------|-------|------------------|------|--------------|-----------------------|-----------|--------------------------|--------------------------------------|-------------|------------|------------------------------|
| | | GROUNDWATER | SURFACE WATER | DRINKING WATER | SOIL | OTHER | DATE DD/MM/YY | TIME | | | | | | | | |
| 1 P5 | | X | | | | | 02-Nov-10 | | 7 | X | X | X | X | X | X | X |
| 2 V8 | | X | | | | | 02-Nov-10 | | 7 | X | X | X | X | X | X | X |
| 3 V20A | | X | | | | | 03-Nov-10 | | 7 | X | X | X | X | X | X | X |
| 4 V17A | | X | | | | | 03-Nov-10 | | 7 | X | X | X | X | X | X | X |
| 5 VR | | X | | | | | 03-Nov-10 | | 7 | X | X | X | X | X | X | X |
| 6 USFR | | X | | | | | 03-Nov-10 | | 7 | X | X | X | X | X | X | X |
| 7 FC | | X | | | | | 03-Nov-10 | | 7 | X | X | X | X | X | X | X |
| 8 W10 | | X | | | | | 03-Nov-10 | | 0 | | | | | | | |
| 9 NWID | | X | | | | | 03-Nov-10 | | 7 | X | X | X | X | X | X | X |
| 10 R1 | | X | | | | | 03-Nov-10 | | 7 | X | X | X | X | X | X | X |
| 11 K8 | | X | | | | | 03-Nov-10 | | 7 | X | X | X | X | X | X | X |
| 12 GCULV | | X | | | | | 03-Nov-10 | | 7 | X | X | X | X | X | X | X |

| | | | | | | |
|--|---|--|--|---|-----------|---------------|
| TAT (Turnaround Time) LESS THAN 5 DAY TAT MUST HAVE PRIOR APPROVAL | PO NUMBER OR QUOTE NUMBER: SFN-10-01 | SPECIAL DETECTION LIMITS / CONTAMINANT TYPE: As discussed- please add Mercury, Tellurium, and Thorium to the total metals; and hardness, Colour, and TOC. | COMMENTS: CSR AB TIER 1 OTHER | LAB USE ONLY ARRIVAL TEMPERATURE °C: 565 654 466 | DUE DATE: | LOG IN CHECK: |
| * Some exceptions apply - please contact laboratory STANDARD 5 BUSINESS DAYS RUSH 3 BUSINESS DAYS RUSH 2 BUSINESS DAYS URGENT 1 BUSINESS DAY | ACCOUNTING CONTACT: Colette MacMillan | SPECIAL REPORTING OR BILLING INSTRUCTIONS: | # JARS USED: | | | |
| OTHER BUSINESS DAYS | RELINQUISHED BY SAMPLER: Stuart Van Bibber | DATE: DD/MM/YY 05/11/2010 | TIME: 19:00 | RECEIVED BY: | | |
| | RELINQUISHED BY: | DATE: DD/MM/YY | TIME: 10 11 08 | RECEIVED BY: | | |
| | RELINQUISHED BY: | DATE: Page 26 of 27 DD/MM/YY | TIME: 0615 | RECEIVED BY LABORATORY: C. ROSEN | | |

CUSTODY RECORD



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CHAIN-OF CUSTODY RECORD AND ANALYSIS REQUEST

| | | | |
|--|-------------------------------------|---|--|
| COMPANY NAME: Access Consulting Group | | CLIENT PROJECT NO.: SFN-07-01 | |
| COMPANY ADDRESS: #3 Calcite Business Center 151 Industrial Rd Whitehorse, YT Y1A 2V3 | | TEL.: (867) 668-6463 david@accessconsulting.ca E-MAIL: paul@accessconsulting.ca marie@accessconsulting.ca FAX: (867) 668-6680 | |
| SAMPLER NAME (PRINT): Durand Cornett, SFN Youth Program | PROJECT MANAGER: David Petkovich | LABORATORY CONTACT: Kim Webber | |

| MAXXAM JOB # | | ANALYSIS REQUEST | | | | | COC # |
|-----------------|----|------------------|---|--|--|--|-------|
| FIELD SAMPLE ID | | | | | | | |
| | 1 | Trip Blank | | | | | |
| | 2 | | X | | | | |
| | 3 | | | | | | |
| | 4 | | | | | | |
| | 5 | | | | | | |
| | 6 | | | | | | |
| | 7 | | | | | | |
| | 8 | | | | | | |
| | 9 | | | | | | |
| | 10 | | | | | | |
| | 11 | | | | | | |
| 12 | | | | | | | |

| | | | |
|---|--|---|----------------|
| TAT (Turnaround Time) LESS THAN 5 DAY TAT MUST HAVE PRIOR APPROVAL | PO NUMBER OR QUOTE NUMBER: SFN-09-02 | SPECIAL DETECTION LIMITS / CONTAMINANT TYPE: AS per previous SFN-07-01/ SFN-09-02 sampling | |
| * Some exceptions apply - please contact laboratory | ACCOUNTING CONTACT: Colette MacMillon | SPECIAL REPORTING OR BILLING INSTRUCTIONS: | |
| STANDARD 5 BUSINESS DAYS RUSH 3 BUSINESS DAYS RUSH 2 BUSINESS DAYS URGENT 1 BUSINESS DAY | RELINQUISHED BY SAMPLER: Durand Cornett | DATE: DD/MM/YY 05/08/2010 | TIME: 19:00 |
| OTHER BUSINESS DAYS | RELINQUISHED BY: | DATE: DD/MM/YY | TIME: |
| | RELINQUISHED BY: | DATE: DD/MM/YY 06/08/10 | TIME: 14:25 |

| | | | |
|-------------------------|-------------------------------|-----------|---------------|
| CCME | ARRIVAL TEMPERATURE °C: | DUE DATE: | LOG IN CHECK: |
| CSR | 14, 10, 11 | | |
| AB TIER 1 | | | |
| OTHER | | | |
| # JARS USED: | | | |
| RECEIVED BY: | | | |
| RECEIVED BY: | | | |
| RECEIVED BY LABORATORY: | Claire Raymond/Claire Raymond | | |

CUSTODY RECORD

**Pelly River Aquatic Ecosystem
Monitoring Program
2010 Summary**

**Laboratory Results Compared to
CCME Guidelines**

| Station Name | | V8 | V8 | V8 | V8 | V8 | |
|--------------------|----------|--|--|--|--|--|--------------|
| Description | | Lower Vangorda Ck at the footbridge | Lower Vangorda Ck at the footbridge | Lower Vangorda Ck at the footbridge | Lower Vangorda Ck at the footbridge | Lower Vangorda Ck at the footbridge | |
| Smpl Date | | 19/05/2010 | 19/05/2010 | 03/08/2010 | 03/08/2010 | 02/11/2010 | |
| Sample Class | | QD | M | QD | M | M | |
| eq Smpl # | | V8_40317_QD | V8_40317_M | V8_40393_QD | V8_40393_M | V8_40484_M | CCME-Aquatic |
| Ag-T | µg/L | <0.005 | <0.005 | | <0.005 | <0.005 | 0.1 |
| Al-T | µg/L | 810 | 902 | | 21.5 | 13.7 | * |
| As-T | µg/L | 1.53 | 1.58 | | 0.52 | 0.47 | 5 |
| Cd-T | µg/L | 0.141 | 0.14 | | 0.047 | 0.043 | * |
| Cr-T | µg/L | 1.6 | 1.9 | | 0.1 | 0.1 | 1 |
| Cu-T | µg/L | 3.95 | 4.1 | | 0.84 | 0.65 | * |
| Fe-T | µg/L | 1450 | 1600 | | 54 | 42 | 300 |
| Hg-T | µg/L | | | | | 0.01 | 0.026 |
| Mo-T | µg/L | 0.36 | 0.42 | | 0.87 | 1.02 | 73 |
| Ni-T | µg/L | 4.34 | 4.74 | | 1.11 | 1.36 | * |
| Pb-T | µg/L | 5.39 | 5.53 | | 0.151 | 0.115 | * |
| Se-T | µg/L | 0.47 | 0.45 | | 0.57 | 0.85 | 1 |
| TI-T | µg/L | 0.033 | 0.035 | | 0.016 | 0.005 | 0.8 |
| Zn-T | µg/L | 27.6 | 28.4 | | 7 | 7.4 | 30 |
| CN-WAD | mg/L | | | | <0.0005 | 0.0008 | 0.005 |
| Total Ammonia | mg/L | | <0.005 | 0.023 | <0.005 | 0.015 | 0.239 |
| Nitrite | mg/L | | <0.005 | <0.005 | <0.005 | <0.005 | 0.06 |
| Nitrate | mg/L | | 0.15 | 0.14 | 0.14 | 0.3 | 2.9 |
| pH-F | pH units | | 7.99 | | 8.39 | 8.13 | 6.5-9 |
| Temp-F | C | | 4.8 | | 12.9 | -0.1 | |
| Hardness - Total | mg/L | 151 | 157 | | 239 | 304 | |
| Dissolved Sulphate | mg/L | | 62 | 100 | 100 | 120 | |
| TSS | mg/L | | 87 | | 2 | <4 | |

| Station Name | | P5 | P5 | P5 | |
|--------------------|----------|-----------------------------------|-----------------------------------|-----------------------------------|--------------|
| Description | | Pelly River u/s of Pelly Crossing | Pelly River u/s of Pelly Crossing | Pelly River u/s of Pelly Crossing | |
| Smpl Date | | 24/02/2010 | 19/05/2010 | 02/11/2010 | |
| Sample Class | | M | M | M | |
| eq Smpl # | | P5_40233_M | P5_40317_M | P5_40484_M | CCME-Aquatic |
| Ag-T | µg/L | <0.005 | <0.005 | <0.005 | 0.1 |
| Al-T | µg/L | 17.2 | 259 | 22.7 | * |
| As-T | µg/L | 0.36 | 0.86 | 0.59 | 5 |
| Cd-T | µg/L | 0.124 | 0.17 | 0.109 | * |
| Cr-T | µg/L | 0.2 | 0.3 | 0.1 | 1 |
| Cu-T | µg/L | 0.63 | 2.6 | 0.86 | * |
| Fe-T | µg/L | 64 | 631 | 92 | 300 |
| Hg-T | µg/L | | | 0.01 | 0.026 |
| Mo-T | µg/L | 1.1 | 0.88 | 1.19 | 73 |
| Ni-T | µg/L | 3.34 | 4.76 | 3.1 | * |
| Pb-T | µg/L | 0.146 | 0.522 | 0.114 | * |
| Se-T | µg/L | 1.29 | 0.66 | 0.76 | 1 |
| Tl-T | µg/L | 0.004 | 0.009 | 0.003 | 0.8 |
| Zn-T | µg/L | 14.3 | 14.5 | 4.5 | 30 |
| CN-WAD | mg/L | <0.0005 | | 0.0008 | 0.005 |
| Total Ammonia | mg/L | 0.011 | 0.006 | 0.03 | 0.239 |
| Nitrite | mg/L | <0.005 | <0.005 | <0.005 | 0.06 |
| Nitrate | mg/L | 0.12 | <0.02 | 0.04 | 2.9 |
| pH-F | pH units | 7.72 | 7.93 | 7.73 | 6.5-9 |
| Temp-F | C | 0 | 10.6 | 1.3 | |
| Hardness - Total | mg/L | 205 | 128 | 190 | |
| Dissolved Sulphate | mg/L | 59 | 45 | 50 | |
| TSS | mg/L | 2 | 20 | <4 | |

| Station Name | | VW1 | VW1 | VW1 | VW1 | |
|--------------------|----------|---|---|---|---|--------------|
| Description | | West fork Vangorda Ck d/s of slide u/s Grum WR dra | West fork Vangorda Ck d/s of slide u/s Grum WR dra | West fork Vangorda Ck d/s of slide u/s Grum WR dra | West fork Vangorda Ck d/s of slide u/s Grum WR dra | |
| Smpl Date | | 21/01/2010 | 23/02/2010 | 30/03/2010 | 03/11/2010 | |
| Sample Class | | M | M | M | M | |
| eq Smpl # | | VW1_40199_M | VW1_40232_M | VW1_40267_M | VW1_40485_M | CCME-Aquatic |
| Ag-T | µg/L | <0.005 | <0.005 | <0.005 | <0.005 | 0.1 |
| Al-T | µg/L | 27.4 | 35.9 | 111 | 8.6 | * |
| As-T | µg/L | 0.59 | 0.51 | 1.19 | 0.56 | 5 |
| Cd-T | µg/L | 0.015 | 0.016 | 0.048 | 0.007 | * |
| Cr-T | µg/L | 0.1 | <0.1 | 0.2 | <0.1 | 1 |
| Cu-T | µg/L | 0.55 | 0.56 | 1.55 | 0.42 | * |
| Fe-T | µg/L | 128 | 115 | 341 | 106 | 300 |
| Hg-T | µg/L | | | | <0.01 | 0.026 |
| Mo-T | µg/L | 0.55 | 0.62 | 1.12 | 0.45 | 73 |
| Ni-T | µg/L | 0.65 | 0.58 | 1.5 | 0.5 | * |
| Pb-T | µg/L | 0.229 | 0.222 | 1.34 | 0.058 | * |
| Se-T | µg/L | 0.33 | 0.4 | 0.75 | 0.17 | 1 |
| TI-T | µg/L | 0.002 | <0.002 | 0.005 | <0.002 | 0.8 |
| Zn-T | µg/L | 3.5 | 3.3 | 8 | 2 | 30 |
| CN-WAD | mg/L | <0.0005 | <0.0005 | <0.0005 | 0.001 | 0.005 |
| Total Ammonia | mg/L | 0.009 | 0.012 | 0.051 | 0.086 | 0.239 |
| Nitrite | mg/L | <0.005 | <0.005 | <0.005 | <0.005 | 0.06 |
| Nitrate | mg/L | 0.16 | 0.16 | 0.19 | 0.09 | 2.9 |
| pH-F | pH units | 4.23 | 8.06 | | 7.96 | 6.5-9 |
| Temp-F | C | -0.1 | 0 | | 0.1 | |
| Hardness - Total | mg/L | 253 | 261 | 391 | 189 | |
| Dissolved Sulphate | mg/L | 59 | 62 | 110 | 52 | |
| TSS | mg/L | 8 | 7 | 52 | <4 | |

| Station Name | | VW2 | VW2 | VW2 | |
|--------------------|----------|--|--|--|--------------|
| Description | | West Vangorda Ck, trib draining Grum west lobe | West Vangorda Ck, trib draining Grum west lobe | West Vangorda Ck, trib draining Grum west lobe | |
| Smpl Date | | 24/02/2010 | 30/03/2010 | 03/11/2010 | |
| Sample Class | | M | M | M | |
| eq Smpl # | | VW2_40233_M | VW2_40267_M | VW2_40485_M | CCME-Aquatic |
| Ag-T | µg/L | <0.005 | <0.005 | <0.005 | 0.1 |
| Al-T | µg/L | 6.2 | 5.2 | 3.9 | * |
| As-T | µg/L | 0.35 | 0.34 | 0.39 | 5 |
| Cd-T | µg/L | 0.155 | 0.171 | 0.115 | * |
| Cr-T | µg/L | 0.2 | 0.1 | 0.2 | 1 |
| Cu-T | µg/L | 0.52 | 0.49 | 0.45 | * |
| Fe-T | µg/L | 12 | 11 | 6 | 300 |
| Hg-T | µg/L | | | <0.01 | 0.026 |
| Mo-T | µg/L | 3.75 | 4.25 | 3.5 | 73 |
| Ni-T | µg/L | 1.59 | 1.73 | 1.29 | * |
| Pb-T | µg/L | 0.214 | 0.072 | 0.02 | * |
| Se-T | µg/L | 4.39 | 4.26 | 3.39 | 1 |
| TI-T | µg/L | <0.002 | <0.002 | <0.002 | 0.8 |
| Zn-T | µg/L | 9.1 | 10.1 | 6.6 | 30 |
| CN-WAD | mg/L | <0.0005 | <0.0005 | 0.0006 | 0.005 |
| Total Ammonia | mg/L | 0.01 | <0.005 | <0.005 | 0.239 |
| Nitrite | mg/L | <0.005 | <0.005 | <0.005 | 0.06 |
| Nitrate | mg/L | 0.32 | 0.21 | 0.16 | 2.9 |
| pH-F | pH units | 8.23 | 8.22 | 8.18 | 6.5-9 |
| Temp-F | C | 0 | 0 | 0.1 | |
| Hardness - Total | mg/L | 436 | 428 | 391 | |
| Dissolved Sulphate | mg/L | 120 | 120 | 110 | |
| TSS | mg/L | 1 | 8 | <4 | |

| Station Name | | FC | FC | FC | FC | FC | FC | FC | |
|--------------------|----------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|--------------|
| Description | | Faro Creek above diversion channel | Faro Creek above diversion channel | Faro Creek above diversion channel | Faro Creek above diversion channel | Faro Creek above diversion channel | Faro Creek above diversion channel | Faro Creek above diversion channel | |
| Smpl Date | | 21/01/2010 | 24/02/2010 | 24/02/2010 | 30/03/2010 | 19/05/2010 | 03/08/2010 | 03/11/2010 | |
| Sample Class | | M | QD | M | M | M | M | M | |
| eq Smpl # | | FC_40199_M | FC_40233_QD | FC_40233_M | FC_40267_M | FC_40317_M | FC_40393_M | FC_40485_M | CCME-Aquatic |
| Ag-T | µg/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.1 |
| Al-T | µg/L | 24.8 | 29.1 | 34.8 | 90.4 | 198 | 41 | 22.5 | * |
| As-T | µg/L | 0.06 | 0.09 | 0.09 | 0.25 | 0.21 | 0.11 | 0.08 | 5 |
| Cd-T | µg/L | 0.008 | 0.006 | 0.008 | 0.025 | 0.045 | 0.01 | 0.011 | * |
| Cr-T | µg/L | 0.1 | <0.1 | <0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 1 |
| Cu-T | µg/L | 0.28 | 0.31 | 0.31 | 0.64 | 1.53 | 0.53 | 0.41 | * |
| Fe-T | µg/L | 20 | 38 | 44 | 469 | 249 | 40 | 21 | 300 |
| Hg-T | µg/L | | | | | | | <0.01 | 0.026 |
| Mo-T | µg/L | 0.08 | 0.08 | 0.09 | 0.1 | <0.05 | 0.07 | 0.07 | 73 |
| Ni-T | µg/L | 0.2 | 0.19 | 0.19 | 0.28 | 0.58 | 0.32 | 0.24 | * |
| Pb-T | µg/L | 0.076 | 2.11 | 0.251 | 1.73 | 1.05 | 0.504 | 0.105 | * |
| Se-T | µg/L | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | 1 |
| Tl-T | µg/L | <0.002 | <0.002 | <0.002 | 0.003 | 0.008 | <0.002 | <0.002 | 0.8 |
| Zn-T | µg/L | 1.2 | 1.5 | 1.6 | 7.1 | 7.6 | 1.4 | 2.2 | 30 |
| CN-WAD | mg/L | <0.0005 | <0.0005 | <0.0005 | <0.0005 | | <0.0005 | 0.001 | 0.005 |
| Total Ammonia | mg/L | <0.005 | 0.009 | 0.006 | 0.013 | <0.005 | <0.005 | 0.013 | 0.239 |
| Nitrite | mg/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.06 |
| Nitrate | mg/L | 0.06 | 0.06 | 0.05 | 0.08 | <0.02 | <0.02 | <0.02 | 2.9 |
| pH-F | pH units | 4.39 | | 8.08 | 8.18 | 7.47 | 7.39 | 7.50 | 6.5-9 |
| Temp-F | C | -0.1 | | 0 | 0 | 0.9 | 10.9 | 0.0 | |
| Hardness - Total | mg/L | 17.7 | 18.5 | 17.6 | 18.8 | 8.7 | 16.8 | 15.7 | |
| Dissolved Sulphate | mg/L | 2 | 1.5 | 1.4 | 2 | <0.5 | 1.5 | 1.7 | |
| TSS | mg/L | <1 | 1 | <1 | 11 | 6 | <1 | <4 | |

| Station Name | | R1 | R1 | R1 | R1 | |
|--------------------|----------|--|--|--|--|--------------|
| Description | | South fork Rose Ck u/s of Pumphouse Pond | South fork Rose Ck u/s of Pumphouse Pond | South fork Rose Ck u/s of Pumphouse Pond | South fork Rose Ck u/s of Pumphouse Pond | |
| Smpl Date | | 21/01/2010 | 24/02/2010 | 30/03/2010 | 03/11/2010 | |
| Sample Class | | M | M | M | M | |
| eq Smpl # | | R1_40199_M | R1_40233_M | R1_40267_M | R1_40485_M | CCME-Aquatic |
| Ag-T | µg/L | <0.005 | 0.008 | <0.005 | <0.005 | 0.1 |
| Al-T | µg/L | 28.4 | 274 | 9 | 6.2 | * |
| As-T | µg/L | 0.97 | 2.94 | 0.54 | 0.3 | 5 |
| Cd-T | µg/L | 0.045 | 0.081 | 0.018 | <0.005 | * |
| Cr-T | µg/L | 0.3 | 0.8 | <0.1 | <0.1 | 1 |
| Cu-T | µg/L | 1.18 | 2.9 | 0.83 | 0.36 | * |
| Fe-T | µg/L | 1370 | 5170 | 500 | 203 | 300 |
| Hg-T | µg/L | | | | <0.01 | 0.026 |
| Mo-T | µg/L | 0.29 | 0.26 | 0.32 | 0.25 | 73 |
| Ni-T | µg/L | 0.56 | 2.26 | 0.48 | 0.33 | * |
| Pb-T | µg/L | 0.85 | 3.02 | 0.443 | 0.036 | * |
| Se-T | µg/L | 0.19 | 0.24 | 0.23 | 0.14 | 1 |
| TI-T | µg/L | 0.003 | 0.009 | 0.003 | <0.002 | 0.8 |
| Zn-T | µg/L | 11.8 | 17.9 | 6.1 | 0.7 | 30 |
| CN-WAD | mg/L | <0.0005 | <0.0005 | <0.0005 | 0.0009 | 0.005 |
| Total Ammonia | mg/L | 0.047 | 0.115 | 0.129 | 0.041 | 0.239 |
| Nitrite | mg/L | <0.005 | 0.006 | <0.005 | <0.005 | 0.06 |
| Nitrate | mg/L | 0.14 | 0.15 | 0.18 | 0.07 | 2.9 |
| pH-F | pH units | 4.53 | 8.45 | 7.86 | 7.86 | 6.5-9 |
| Temp-F | C | -0.1 | 0.1 | 0 | -0.1 | |
| Hardness - Total | mg/L | 145 | 152 | 155 | 103 | |
| Dissolved Sulphate | mg/L | 29 | 30 | 33 | 21 | |
| TSS | mg/L | 4 | 110 | 3 | <4 | |

| Station Name | | X14 | X14 | X14 | X14 | |
|--------------------|----------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------|
| Description | | Rose Ck d/s of the diversion channel | Rose Ck d/s of the diversion channel | Rose Ck d/s of the diversion channel | Rose Ck d/s of the diversion channel | |
| Smpl Date | | 19/05/2010 | 03/08/2010 | 03/08/2010 | 03/11/2010 | |
| Sample Class | | M | QD | M | M | |
| eq Smpl # | | X14_40317_M | X14_40393_QD | X14_40393_M | X14_40485_M | CCME-Aquatic |
| Ag-T | µg/L | <0.005 | <0.005 | <0.005 | <0.005 | 0.1 |
| Al-T | µg/L | 215 | 11.7 | 7 | 4.6 | * |
| As-T | µg/L | 1.08 | 0.48 | 0.49 | 0.32 | 5 |
| Cd-T | µg/L | 0.063 | 0.027 | 0.024 | 0.042 | * |
| Cr-T | µg/L | 0.4 | <0.1 | <0.1 | <0.1 | 1 |
| Cu-T | µg/L | 2.03 | 0.54 | 0.47 | 0.35 | * |
| Fe-T | µg/L | 991 | 369 | 353 | 306 | 300 |
| Hg-T | µg/L | | | | <0.01 | 0.026 |
| Mo-T | µg/L | 0.93 | 0.56 | 0.56 | 0.56 | 73 |
| Ni-T | µg/L | 3.29 | 1.37 | 1.39 | 2.48 | * |
| Pb-T | µg/L | 4.81 | 0.317 | 0.168 | 0.179 | * |
| Se-T | µg/L | 0.14 | 0.19 | 0.2 | 0.26 | 1 |
| Tl-T | µg/L | 0.031 | 0.006 | 0.005 | 0.004 | 0.8 |
| Zn-T | µg/L | 39.8 | 17.9 | 17.6 | 34.7 | 30 |
| CN-WAD | mg/L | | | <0.0005 | 0.0009 | 0.005 |
| Total Ammonia | mg/L | 0.038 | | 0.012 | 0.022 | 0.239 |
| Nitrite | mg/L | 0.007 | | <0.005 | <0.005 | 0.06 |
| Nitrate | mg/L | 0.04 | | <0.02 | 0.12 | 2.9 |
| pH-F | pH units | 7.38 | | 7.99 | 7.83 | 6.5-9 |
| Temp-F | C | 4.1 | | 13.3 | 0.2 | |
| Hardness - Total | mg/L | 127 | 151 | 150 | 203 | |
| Dissolved Sulphate | mg/L | 80 | | 57 | 95 | |
| TSS | mg/L | 15 | | <1 | <4 | |

| Station Name | | R4 | R4 | R4 | R4 | R4 | R4 | |
|--------------------|----------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------|
| Description | | Rose Ck u/s of Anvil Ck | Rose Ck u/s of Anvil Ck | Rose Ck u/s of Anvil Ck | Rose Ck u/s of Anvil Ck | Rose Ck u/s of Anvil Ck | Rose Ck u/s of Anvil Ck | |
| Smpl Date | | 21/01/2010 | 26/02/2010 | 19/05/2010 | 03/08/2010 | 04/11/2010 | 04/11/2010 | |
| Sample Class | | M | M | M | M | QD | M | |
| eq Smpl # | | R4_40199_M | R4_40235_M | R4_40317_M | R4_40393_M | R4_40486_QD | R4_40486_M | CCME-Aquatic |
| Ag-T | µg/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.1 |
| Al-T | µg/L | 3.3 | 2.9 | 241 | 7.1 | 4.4 | 3.6 | * |
| As-T | µg/L | 0.23 | 0.25 | 1.12 | 0.3 | 0.41 | 0.23 | 5 |
| Cd-T | µg/L | 0.007 | 0.01 | 0.097 | 0.015 | 0.009 | 0.023 | * |
| Cr-T | µg/L | 0.2 | 0.2 | 0.6 | 0.4 | <0.1 | 0.1 | 1 |
| Cu-T | µg/L | 0.44 | 0.44 | 2.98 | 0.62 | 0.34 | 0.46 | * |
| Fe-T | µg/L | 38 | 28 | 1010 | 135 | 80 | 82 | 300 |
| Hg-T | µg/L | | | | | <0.01 | <0.01 | 0.026 |
| Mo-T | µg/L | 0.6 | 0.55 | 0.49 | 0.62 | 1.16 | 0.56 | 73 |
| Ni-T | µg/L | 0.68 | 0.73 | 4.29 | 1.18 | 0.27 | 1.02 | * |
| Pb-T | µg/L | 0.073 | 0.117 | 4.89 | 0.112 | 0.023 | 0.164 | * |
| Se-T | µg/L | 0.74 | 0.83 | 0.24 | 0.43 | 0.76 | 0.49 | 1 |
| Tl-T | µg/L | 0.003 | 0.002 | 0.032 | 0.025 | <0.002 | 0.006 | 0.8 |
| Zn-T | µg/L | 4.2 | 3.3 | 46.7 | 9.4 | 1.7 | 12.3 | 30 |
| CN-WAD | mg/L | <0.0005 | <0.0005 | | <0.0005 | 0.0008 | 0.0008 | 0.005 |
| Total Ammonia | mg/L | 0.012 | <0.005 | 0.016 | <0.005 | 0.024 | 0.023 | 0.239 |
| Nitrite | mg/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.06 |
| Nitrate | mg/L | 0.24 | 0.25 | 0.06 | 0.04 | 0.16 | 0.15 | 2.9 |
| pH-F | pH units | 2.7 | 7.73 | 7.74 | 8.24 | | 7.76 | 6.5-9 |
| Temp-F | C | -0.1 | 0 | 4.5 | 10.2 | | -0.1 | |
| Hardness - Total | mg/L | 239 | 262 | 127 | 162 | 150 | 178 | |
| Dissolved Sulphate | mg/L | 98 | 140 | 71 | 64 | 23 | 72 | |
| TSS | mg/L | <1 | <1 | 19 | <1 | <4 | <4 | |

| Station Name | | R6 | R6 | R6 | R6 | R6 | R6 | |
|--------------------|----------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------|
| Description | | Anvil Ck u/s of Rose Ck | Anvil Ck u/s of Rose Ck | Anvil Ck u/s of Rose Ck | Anvil Ck u/s of Rose Ck | Anvil Ck u/s of Rose Ck | Anvil Ck u/s of Rose Ck | |
| Smpl Date | | 21/01/2010 | 26/02/2010 | 30/03/2010 | 19/05/2010 | 03/08/2010 | 04/11/2010 | |
| Sample Class | | M | M | M | M | M | M | |
| eq Smpl # | | R6_40199_M | R6_40235_M | R6_40267_M | R6_40317_M | R6_40393_M | R6_40486_M | CCME-Aquatic |
| Ag-T | µg/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.1 |
| Al-T | µg/L | 6.3 | 4.8 | 4.2 | 771 | 16.6 | 5.4 | * |
| As-T | µg/L | 0.48 | 0.48 | 0.46 | 2.04 | 0.48 | 0.36 | 5 |
| Cd-T | µg/L | 0.012 | 0.008 | 0.014 | 0.152 | 0.017 | 0.007 | * |
| Cr-T | µg/L | 0.1 | 0.1 | <0.1 | 1.7 | 0.5 | <0.1 | 1 |
| Cu-T | µg/L | 0.32 | 0.26 | 0.34 | 4.42 | 0.54 | 0.39 | * |
| Fe-T | µg/L | 118 | 112 | 124 | 2200 | 169 | 83 | 300 |
| Hg-T | µg/L | | | | | | <0.01 | 0.026 |
| Mo-T | µg/L | 1.16 | 1.35 | 1.42 | 0.62 | 1.2 | 1.2 | 73 |
| Ni-T | µg/L | 0.26 | 0.24 | 0.19 | 3.15 | 0.4 | 0.32 | * |
| Pb-T | µg/L | 0.016 | 0.042 | 0.025 | 1.55 | 0.053 | 0.025 | * |
| Se-T | µg/L | 0.76 | 0.91 | 0.89 | 0.42 | 0.67 | 0.8 | 1 |
| Tl-T | µg/L | <0.002 | <0.002 | <0.002 | 0.018 | <0.002 | <0.002 | 0.8 |
| Zn-T | µg/L | 0.6 | 0.7 | 0.6 | 11.4 | 0.3 | 0.4 | 30 |
| CN-WAD | mg/L | <0.0005 | <0.0005 | <0.0005 | | <0.0005 | 0.0007 | 0.005 |
| Total Ammonia | mg/L | 0.007 | <0.005 | <0.005 | 0.023 | <0.005 | 0.012 | 0.239 |
| Nitrite | mg/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.06 |
| Nitrate | mg/L | 0.22 | 0.22 | 0.21 | 0.05 | 0.02 | 0.16 | 2.9 |
| pH-F | pH units | 2.89 | 8.13 | 8.34 | 7.93 | 8.46 | 7.99 | 6.5-9 |
| Temp-F | C | -0.1 | 0 | 0 | 4.4 | 9 | -0.1 | |
| Hardness - Total | mg/L | 168 | 160 | 165 | 97.4 | 153 | 159 | |
| Dissolved Sulphate | mg/L | 22 | 23 | 24 | 14 | 21 | 22 | |
| TSS | mg/L | 1 | <1 | <1 | 62 | <1 | <4 | |

| Station Name | | A1 (Anvil Creek) | A1 (Anvil Creek) | A1 (Anvil Creek) | A1 (Anvil Creek) | A1 (Anvil Creek) | A1 (Anvil Creek) | |
|--------------------|----------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--------------|
| Description | | Anvil Ck u/s of Pelly River | Anvil Ck u/s of Pelly River | Anvil Ck u/s of Pelly River | Anvil Ck u/s of Pelly River | Anvil Ck u/s of Pelly River | Anvil Ck u/s of Pelly River | |
| Smpl Date | | 21/01/2010 | 26/02/2010 | 30/03/2010 | 19/05/2010 | 03/08/2010 | 04/11/2010 | |
| Sample Class | | M | M | M | M | M | M | |
| eq Smpl # | | A1_40199_M | A1_40235_M | A1_40267_M | A1_40317_M | A1_40393_M | A1_40486_M | CCME-Aquatic |
| Ag-T | µg/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.1 |
| Al-T | µg/L | 13.4 | 7.8 | 31.5 | 1030 | 19 | 65.5 | * |
| As-T | µg/L | 0.66 | 0.67 | 0.67 | 2.16 | 0.53 | 0.74 | 5 |
| Cd-T | µg/L | 0.008 | 0.011 | 0.02 | 0.173 | 0.033 | 0.023 | * |
| Cr-T | µg/L | 0.2 | 0.1 | 0.1 | 2.5 | 0.4 | 0.3 | 1 |
| Cu-T | µg/L | 0.5 | 0.42 | 0.71 | 5.58 | 0.78 | 0.8 | * |
| Fe-T | µg/L | 41 | 35 | 57 | 2080 | 69 | 152 | 300 |
| Hg-T | µg/L | | | | | | <0.01 | 0.026 |
| Mo-T | µg/L | 1.04 | 1.1 | 1.11 | 0.43 | 0.96 | 0.94 | 73 |
| Ni-T | µg/L | 0.49 | 0.39 | 0.53 | 6.53 | 0.87 | 0.91 | * |
| Pb-T | µg/L | 0.086 | 0.034 | 0.198 | 4.02 | 0.167 | 0.472 | * |
| Se-T | µg/L | 0.77 | 1.13 | 0.78 | 0.35 | 0.5 | 0.61 | 1 |
| Tl-T | µg/L | <0.002 | <0.002 | <0.002 | 0.036 | 0.01 | 0.004 | 0.8 |
| Zn-T | µg/L | 2.1 | 1.5 | 3.6 | 32.4 | 2.7 | 4.8 | 30 |
| CN-WAD | mg/L | <0.0005 | <0.0005 | <0.0005 | | <0.0005 | 0.0009 | 0.005 |
| Total Ammonia | mg/L | 0.009 | <0.005 | <0.005 | 0.009 | <0.005 | 0.015 | 0.239 |
| Nitrite | mg/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.06 |
| Nitrate | mg/L | 0.24 | 0.24 | 0.25 | 0.06 | <0.02 | 0.15 | 2.9 |
| pH-F | pH units | 2.86 | 8.21 | 8.36 | 7.81 | 8.29 | 8.11 | 6.5-9 |
| Temp-F | C | -0.1 | 0 | 0 | 5.7 | 12.6 | 0.1 | |
| Hardness - Total | mg/L | 181 | 177 | 206 | 118 | 148 | 157 | |
| Dissolved Sulphate | mg/L | 44 | 56 | 81 | 45 | 40 | 41 | |
| TSS | mg/L | 1 | <1 | 1 | 93 | 1 | 8 | |

| Station Name | | P1 | P1 | P1 | P1 | P1 | P1 | |
|--------------------|----------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------|
| Description | | Pelly River u/s of Vangorda Ck | Pelly River u/s of Vangorda Ck | Pelly River u/s of Vangorda Ck | Pelly River u/s of Vangorda Ck | Pelly River u/s of Vangorda Ck | Pelly River u/s of Vangorda Ck | |
| Smpl Date | | 21/01/2010 | 26/02/2010 | 30/03/2010 | 19/05/2010 | 03/08/2010 | 04/11/2010 | |
| Sample Class | | M | M | M | M | M | M | |
| eq Smpl # | | P1_40199_M | P1_40235_M | P1_40267_M | P1_40317_M | P1_40393_M | P1_40486_M | CCME-Aquatic |
| Ag-T | µg/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.1 |
| Al-T | µg/L | 5.6 | 2.2 | 4.2 | 258 | 38.3 | 17 | * |
| As-T | µg/L | 0.28 | 0.26 | 0.27 | 0.99 | 0.49 | 0.45 | 5 |
| Cd-T | µg/L | 0.153 | 0.071 | 0.107 | 0.298 | 0.118 | 0.114 | * |
| Cr-T | µg/L | <0.1 | <0.1 | <0.1 | 0.3 | 0.3 | <0.1 | 1 |
| Cu-T | µg/L | 0.45 | 0.26 | 0.47 | 2.92 | 0.82 | 0.7 | * |
| Fe-T | µg/L | 29 | 11 | 26 | 792 | 72 | 69 | 300 |
| Hg-T | µg/L | | | | | | <0.01 | 0.026 |
| Mo-T | µg/L | 1.05 | 1.07 | 1.21 | 0.92 | 1.31 | 1.32 | 73 |
| Ni-T | µg/L | 3.18 | 0.69 | 2.67 | 6.62 | 2.68 | 3.17 | * |
| Pb-T | µg/L | 0.016 | 0.011 | 0.043 | 0.713 | 0.094 | 0.066 | * |
| Se-T | µg/L | 1.41 | 2.64 | 1.34 | 0.84 | 0.85 | 1.18 | 1 |
| Tl-T | µg/L | 0.002 | 0.002 | 0.003 | 0.009 | 0.006 | <0.002 | 0.8 |
| Zn-T | µg/L | 17.8 | 2.9 | 14.4 | 25.8 | 5.2 | 8.7 | 30 |
| CN-WAD | mg/L | <0.0005 | <0.0005 | <0.0005 | | <0.0005 | 0.0009 | 0.005 |
| Total Ammonia | mg/L | 0.007 | <0.005 | <0.005 | <0.005 | <0.005 | 0.024 | 0.239 |
| Nitrite | mg/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.06 |
| Nitrate | mg/L | 0.09 | 0.08 | 0.08 | <0.02 | <0.02 | 0.03 | 2.9 |
| pH-F | pH units | 3.91 | 7.99 | 7.89 | 8.02 | 8.12 | 8.27 | 6.5-9 |
| Temp-F | C | -0.1 | 2.8 | 0.1 | 11.1 | 16.6 | 0.0 | |
| Hardness - Total | mg/L | 216 | 208 | 230 | 130 | 181 | 209 | |
| Dissolved Sulphate | mg/L | 67 | 79 | 78 | 48 | 61 | 69 | |
| TSS | mg/L | <1 | <1 | <1 | 35 | 3 | <4 | |

| Station Name | | P4 | P4 | P4 | P4 | P4 | P4 | |
|--------------------|----------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--------------|
| Description | | Pelly River d/s of Anvil Ck | Pelly River d/s of Anvil Ck | Pelly River d/s of Anvil Ck | Pelly River d/s of Anvil Ck | Pelly River d/s of Anvil Ck | Pelly River d/s of Anvil Ck | |
| Smpl Date | | 21/01/2010 | 26/02/2010 | 30/03/2010 | 19/05/2010 | 03/08/2010 | 04/11/2010 | |
| Sample Class | | M | M | M | M | M | M | |
| eq Smpl # | | P4_40199_M | P4_40235_M | P4_40267_M | P4_40317_M | P4_40393_M | P4_40486_M | CCME-Aquatic |
| Ag-T | µg/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.1 |
| Al-T | µg/L | 4.4 | 2.9 | 9.2 | 271 | 34.4 | 24.3 | * |
| As-T | µg/L | 0.28 | 0.28 | 1.29 | 1.01 | 0.66 | 0.71 | 5 |
| Cd-T | µg/L | 0.053 | 0.042 | 0.053 | 0.168 | 0.105 | 0.08 | * |
| Cr-T | µg/L | <0.1 | <0.1 | <0.1 | 0.6 | 0.3 | 0.1 | 1 |
| Cu-T | µg/L | 0.33 | 0.31 | 0.58 | 2.72 | 0.98 | 0.72 | * |
| Fe-T | µg/L | 18 | 6 | 23 | 621 | 91 | 92 | 300 |
| Hg-T | µg/L | | | | | | <0.01 | 0.026 |
| Mo-T | µg/L | 0.97 | 0.92 | 2.12 | 0.82 | 1.6 | 1.34 | 73 |
| Ni-T | µg/L | 0.77 | 0.41 | 0.64 | 4.74 | 1.96 | 2.39 | * |
| Pb-T | µg/L | 0.044 | 0.028 | 0.068 | 0.757 | 0.123 | 0.165 | * |
| Se-T | µg/L | 0.97 | 1.64 | 0.31 | 0.65 | 0.61 | 0.96 | 1 |
| Tl-T | µg/L | 0.003 | <0.002 | 0.003 | 0.011 | 0.008 | 0.003 | 0.8 |
| Zn-T | µg/L | 4.3 | 2.1 | 2.1 | 14.2 | 5.5 | 4.3 | 30 |
| CN-WAD | mg/L | <0.0005 | <0.0005 | <0.0005 | | <0.0005 | 0.0008 | 0.005 |
| Total Ammonia | mg/L | 0.012 | <0.005 | <0.005 | 0.028 | <0.005 | 0.016 | 0.239 |
| Nitrite | mg/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.06 |
| Nitrate | mg/L | 0.07 | 0.1 | 0.03 | 0.11 | <0.02 | 0.05 | 2.9 |
| pH-F | pH units | 3.4 | 8.1 | 8.03 | 8.07 | 8.23 | 8.14 | 6.5-9 |
| Temp-F | C | 1.4 | 0.6 | 0.6 | 10.5 | 15.1 | -0.1 | |
| Hardness - Total | mg/L | 221 | 218 | 208 | 129 | 184 | 203 | |
| Dissolved Sulphate | mg/L | 63 | 80 | 30 | 54 | 47 | 59 | |
| TSS | mg/L | 2 | <1 | 50 | 23 | <1 | <4 | |

| Station Name | | VR | VR | VR | VR | |
|--------------------|----------|---|---|---|---|--------------|
| Description | | West fork of Vangorda Ck u/s of haul road | West fork of Vangorda Ck u/s of haul road | West fork of Vangorda Ck u/s of haul road | West fork of Vangorda Ck u/s of haul road | |
| Smpl Date | | 21/01/2010 | 24/02/2010 | 30/03/2010 | 03/11/2010 | |
| Sample Class | | M | M | M | M | |
| eq Smpl # | | VR_40199_M | VR_40233_M | VR_40267_M | VR_40485_M | CCME-Aquatic |
| Ag-T | µg/L | <0.005 | 0.026 | 0.024 | <0.005 | 0.1 |
| Al-T | µg/L | 116 | 1180 | 357 | 18.6 | * |
| As-T | µg/L | 0.49 | 2.25 | 0.95 | 0.18 | 5 |
| Cd-T | µg/L | 0.08 | 0.348 | 0.108 | 0.008 | * |
| Cr-T | µg/L | 0.6 | 0.7 | 0.3 | <0.1 | 1 |
| Cu-T | µg/L | 1.78 | 7.06 | 1.74 | 0.45 | * |
| Fe-T | µg/L | 176 | 1310 | 438 | 18 | 300 |
| Hg-T | µg/L | | | | <0.01 | 0.026 |
| Mo-T | µg/L | 0.16 | 0.08 | 0.14 | 0.14 | 73 |
| Ni-T | µg/L | 0.45 | 1.6 | 0.67 | 0.16 | * |
| Pb-T | µg/L | 2.04 | 12.5 | 2.6 | 0.083 | * |
| Se-T | µg/L | 0.07 | 0.09 | 0.09 | <0.04 | 1 |
| TI-T | µg/L | 0.005 | 0.033 | 0.012 | 0.002 | 0.8 |
| Zn-T | µg/L | 15.3 | 30.9 | 10.8 | 1.2 | 30 |
| CN-WAD | mg/L | <0.0005 | 0.0006 | <0.0005 | 0.0009 | 0.005 |
| Total Ammonia | mg/L | 0.022 | 0.124 | <0.005 | 0.014 | 0.239 |
| Nitrite | mg/L | <0.005 | <0.005 | <0.005 | <0.005 | 0.06 |
| Nitrate | mg/L | 0.07 | 0.09 | 0.08 | 0.02 | 2.9 |
| pH-F | pH units | 5.49 | 8.4 | 7.84 | 7.30 | 6.5-9 |
| Temp-F | C | -0.1 | 0 | 0 | -0.1 | |
| Hardness - Total | mg/L | 41.5 | 44.8 | 44.4 | 34.8 | |
| Dissolved Sulphate | mg/L | 6.2 | 6.1 | 7.1 | 6.1 | |
| TSS | mg/L | 14 | 200 | 46 | <4 | |

| | | | |
|--------------------|----------|--|--------------|
| Station Name | | VW3 | |
| Description | | West fork Vangorda Ck d/s AEX Ck | |
| Smpl Date | | 03/11/2010 | |
| Sample Class | | M | |
| eq Smpl # | | VW3_40485_M | CCME-Aquatic |
| Ag-T | µg/L | <0.005 | 0.1 |
| Al-T | µg/L | 20.5 | * |
| As-T | µg/L | 0.78 | 5 |
| Cd-T | µg/L | 0.031 | * |
| Cr-T | µg/L | <0.1 | 1 |
| Cu-T | µg/L | 0.45 | * |
| Fe-T | µg/L | 113 | 300 |
| Hg-T | µg/L | <0.01 | 0.026 |
| Mo-T | µg/L | 0.22 | 73 |
| Ni-T | µg/L | 0.28 | * |
| Pb-T | µg/L | 0.384 | * |
| Se-T | µg/L | 0.12 | 1 |
| TI-T | µg/L | 0.003 | 0.8 |
| Zn-T | µg/L | 14.9 | 30 |
| CN-WAD | mg/L | 0.0008 | 0.005 |
| Total Ammonia | mg/L | <0.005 | 0.239 |
| Nitrite | mg/L | <0.005 | 0.06 |
| Nitrate | mg/L | 0.16 | 2.9 |
| pH-F | pH units | 7.71 | 6.5-9 |
| Temp-F | C | 0.0 | |
| Hardness - Total | mg/L | 88.5 | |
| Dissolved Sulphate | mg/L | 28 | |
| TSS | mg/L | <4 | |

| | | | |
|--------------------|----------|---|--------------|
| Station Name | | VG MAIN | |
| Description | | Main fork Vangorda Ck u/s of west fork | |
| Smpl Date | | 04/11/2010 | |
| Sample Class | | M | |
| eq Smpl # | | VGMAIN_40486_M | CCME-Aquatic |
| Ag-T | µg/L | <0.005 | 0.1 |
| Al-T | µg/L | 3.9 | * |
| As-T | µg/L | 0.41 | 5 |
| Cd-T | µg/L | 0.052 | * |
| Cr-T | µg/L | 0.4 | 1 |
| Cu-T | µg/L | 0.63 | * |
| Fe-T | µg/L | 29 | 300 |
| Hg-T | µg/L | <0.01 | 0.026 |
| Mo-T | µg/L | 0.74 | 73 |
| Ni-T | µg/L | 1.63 | * |
| Pb-T | µg/L | 0.077 | * |
| Se-T | µg/L | 0.5 | 1 |
| TI-T | µg/L | 0.007 | 0.8 |
| Zn-T | µg/L | 13 | 30 |
| CN-WAD | mg/L | 0.0008 | 0.005 |
| Total Ammonia | mg/L | 0.024 | 0.239 |
| Nitrite | mg/L | <0.005 | 0.06 |
| Nitrate | mg/L | 0.42 | 2.9 |
| pH-F | pH units | 8.30 | 6.5-9 |
| Temp-F | C | 0.4 | |
| Hardness - Total | mg/L | 282 | |
| Dissolved Sulphate | mg/L | 130 | |
| TSS | mg/L | <4 | |

| | | | |
|--------------------|----------|-------------------------|--------------|
| Station Name | | R5 | |
| Description | | Rose Ck d/s of Anvil Ck | |
| Smpl Date | | 04/11/2010 | |
| Sample Class | | M | |
| eq Smpl # | | R5_40486_M | CCME-Aquatic |
| Ag-T | µg/L | <0.005 | 0.1 |
| Al-T | µg/L | 4.6 | * |
| As-T | µg/L | 0.27 | 5 |
| Cd-T | µg/L | 0.021 | * |
| Cr-T | µg/L | 0.1 | 1 |
| Cu-T | µg/L | 0.49 | * |
| Fe-T | µg/L | 86 | 300 |
| Hg-T | µg/L | <0.01 | 0.026 |
| Mo-T | µg/L | 0.65 | 73 |
| Ni-T | µg/L | 1.02 | * |
| Pb-T | µg/L | 0.131 | * |
| Se-T | µg/L | 0.6 | 1 |
| TI-T | µg/L | 0.006 | 0.8 |
| Zn-T | µg/L | 10.7 | 30 |
| CN-WAD | mg/L | 0.0008 | 0.005 |
| Total Ammonia | mg/L | 0.022 | 0.239 |
| Nitrite | mg/L | <0.005 | 0.06 |
| Nitrate | mg/L | 0.15 | 2.9 |
| pH-F | pH units | 7.76 | 6.5-9 |
| Temp-F | C | 0.1 | |
| Hardness - Total | mg/L | 187 | |
| Dissolved Sulphate | mg/L | 66 | |
| TSS | mg/L | <4 | |

| | | | |
|--------------------|----------|---|--------------|
| Station Name | | GCULV | |
| Description | | South fork Rose Ck u/s of mine access road | |
| Smpl Date | | 03/11/2010 | |
| Sample Class | | M | |
| eq Smpl # | | GCULV_40485_M | CCME-Aquatic |
| Ag-T | µg/L | <0.005 | 0.1 |
| Al-T | µg/L | 10.5 | * |
| As-T | µg/L | 0.24 | 5 |
| Cd-T | µg/L | <0.005 | * |
| Cr-T | µg/L | <0.1 | 1 |
| Cu-T | µg/L | 0.3 | * |
| Fe-T | µg/L | 70 | 300 |
| Hg-T | µg/L | <0.01 | 0.026 |
| Mo-T | µg/L | 0.33 | 73 |
| Ni-T | µg/L | 0.14 | * |
| Pb-T | µg/L | 0.03 | * |
| Se-T | µg/L | <0.04 | 1 |
| TI-T | µg/L | <0.002 | 0.8 |
| Zn-T | µg/L | 1 | 30 |
| CN-WAD | mg/L | 0.0008 | 0.005 |
| Total Ammonia | mg/L | 0.011 | 0.239 |
| Nitrite | mg/L | <0.005 | 0.06 |
| Nitrate | mg/L | 0.04 | 2.9 |
| pH-F | pH units | 7.66 | 6.5-9 |
| Temp-F | C | 0.0 | |
| Hardness - Total | mg/L | 31.8 | |
| Dissolved Sulphate | mg/L | 7 | |
| TSS | mg/L | <4 | |

| | | | |
|--------------------|----------|---|--------------|
| Station Name | | K8 | |
| Description | | Reservoir Ck u/s of mine access road | |
| Smpl Date | | 03/11/2010 | |
| Sample Class | | M | |
| eq Smpl # | | K8_40485_M | CCME-Aquatic |
| Ag-T | µg/L | <0.005 | 0.1 |
| Al-T | µg/L | 5 | * |
| As-T | µg/L | 0.19 | 5 |
| Cd-T | µg/L | 0.006 | * |
| Cr-T | µg/L | <0.1 | 1 |
| Cu-T | µg/L | 0.28 | * |
| Fe-T | µg/L | 6 | 300 |
| Hg-T | µg/L | <0.01 | 0.026 |
| Mo-T | µg/L | 0.13 | 73 |
| Ni-T | µg/L | 0.21 | * |
| Pb-T | µg/L | 0.052 | * |
| Se-T | µg/L | 0.07 | 1 |
| TI-T | µg/L | <0.002 | 0.8 |
| Zn-T | µg/L | 0.6 | 30 |
| CN-WAD | mg/L | 0.0009 | 0.005 |
| Total Ammonia | mg/L | 0.041 | 0.239 |
| Nitrite | mg/L | <0.005 | 0.06 |
| Nitrate | mg/L | 0.05 | 2.9 |
| pH-F | pH units | 7.91 | 6.5-9 |
| Temp-F | C | 0.1 | |
| Hardness - Total | mg/L | 56.6 | |
| Dissolved Sulphate | mg/L | 11 | |
| TSS | mg/L | <4 | |

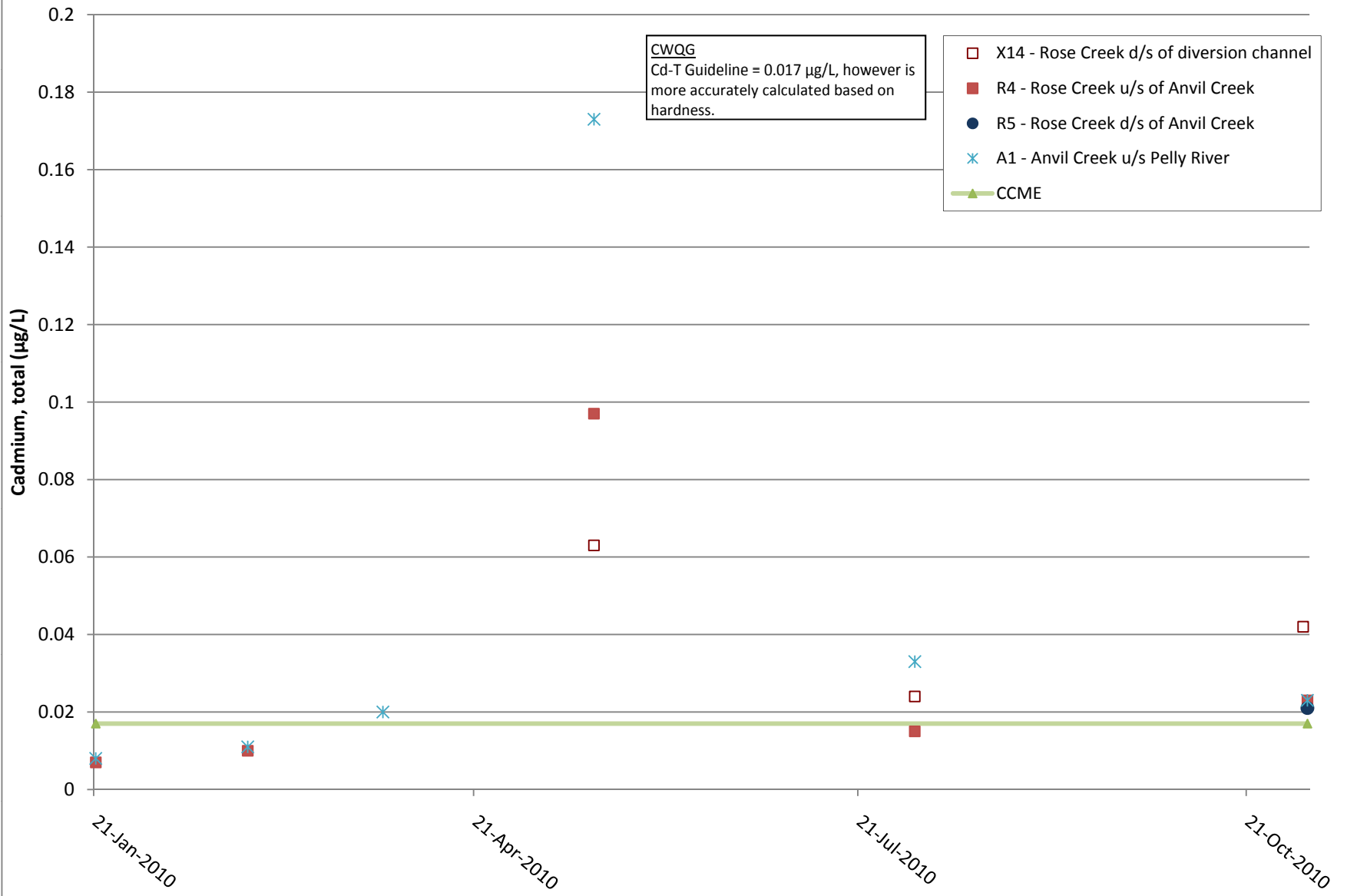
| Station Name | | NWID | |
|--------------------|----------|--|--------------|
| Description | | NW interceptor u/s of diversion point | |
| Smpl Date | | 03/11/2010 | |
| Sample Class | | M | |
| eq Smpl # | | NWID_40485_M | CCME-Aquatic |
| Ag-T | µg/L | <0.005 | 0.1 |
| Al-T | µg/L | 5.2 | * |
| As-T | µg/L | 0.18 | 5 |
| Cd-T | µg/L | 0.046 | * |
| Cr-T | µg/L | <0.1 | 1 |
| Cu-T | µg/L | 0.62 | * |
| Fe-T | µg/L | 5 | 300 |
| Hg-T | µg/L | <0.01 | 0.026 |
| Mo-T | µg/L | 0.25 | 73 |
| Ni-T | µg/L | 0.44 | * |
| Pb-T | µg/L | 0.137 | * |
| Se-T | µg/L | 0.24 | 1 |
| TI-T | µg/L | 0.003 | 0.8 |
| Zn-T | µg/L | 10.3 | 30 |
| CN-WAD | mg/L | 0.0008 | 0.005 |
| Total Ammonia | mg/L | 0.013 | 0.239 |
| Nitrite | mg/L | <0.005 | 0.06 |
| Nitrate | mg/L | 0.04 | 2.9 |
| pH-F | pH units | 7.92 | 6.5-9 |
| Temp-F | C | 0.0 | |
| Hardness - Total | mg/L | 166 | |
| Dissolved Sulphate | mg/L | 38 | |
| TSS | mg/L | <4 | |

| | | | |
|--------------------|----------|--|--------------|
| Station Name | | USFR | |
| Description | | South fork Rose Ck u/s of haul road | |
| Smpl Date | | 03/11/2010 | |
| Sample Class | | M | |
| eq Smpl # | | USFR_40485_M | CCME-Aquatic |
| Ag-T | µg/L | <0.005 | 0.1 |
| Al-T | µg/L | 13.4 | * |
| As-T | µg/L | 0.25 | 5 |
| Cd-T | µg/L | <0.005 | * |
| Cr-T | µg/L | <0.1 | 1 |
| Cu-T | µg/L | 0.31 | * |
| Fe-T | µg/L | 87 | 300 |
| Hg-T | µg/L | <0.01 | 0.026 |
| Mo-T | µg/L | 0.3 | 73 |
| Ni-T | µg/L | 0.16 | * |
| Pb-T | µg/L | 0.032 | * |
| Se-T | µg/L | <0.04 | 1 |
| TI-T | µg/L | <0.002 | 0.8 |
| Zn-T | µg/L | 0.3 | 30 |
| CN-WAD | mg/L | 0.001 | 0.005 |
| Total Ammonia | mg/L | 0.015 | 0.239 |
| Nitrite | mg/L | <0.005 | 0.06 |
| Nitrate | mg/L | 0.04 | 2.9 |
| pH-F | pH units | 7.39 | 6.5-9 |
| Temp-F | C | -0.1 | |
| Hardness - Total | mg/L | 30.8 | |
| Dissolved Sulphate | mg/L | 7.2 | |
| TSS | mg/L | <4 | |

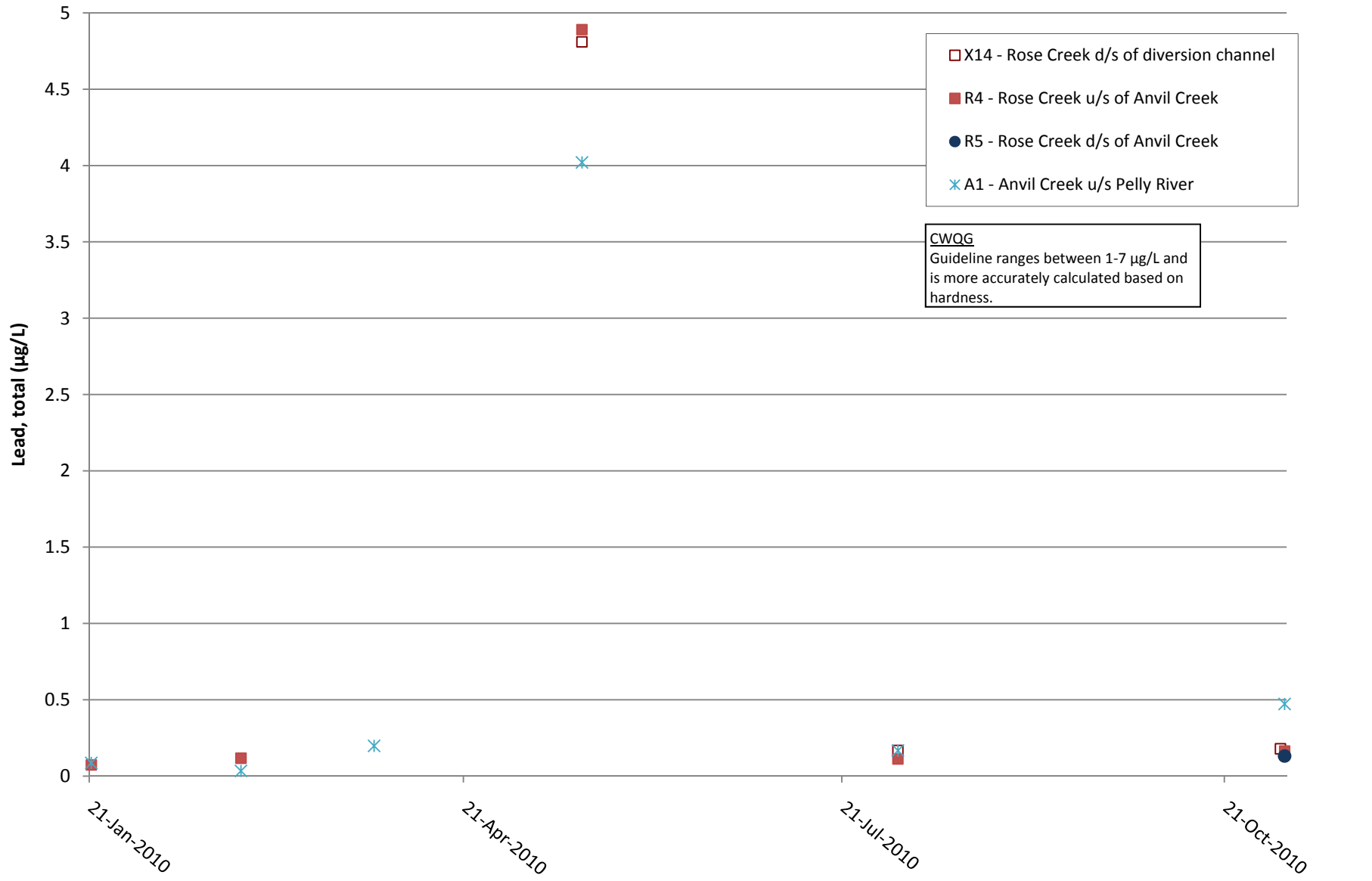
| | | | |
|--------------------|----------|-------------------------------------|--------------|
| Station Name | | V17A | |
| Description | | Creek from Grum ore transfer pad | |
| Smpl Date | | 03/11/2010 | |
| Sample Class | | M | |
| eq Smpl # | | V17A_40485_M | CCME-Aquatic |
| Ag-T | µg/L | <0.005 | 0.1 |
| Al-T | µg/L | 25.4 | * |
| As-T | µg/L | 0.89 | 5 |
| Cd-T | µg/L | 0.033 | * |
| Cr-T | µg/L | <0.1 | 1 |
| Cu-T | µg/L | 1 | * |
| Fe-T | µg/L | 258 | 300 |
| Hg-T | µg/L | <0.01 | 0.026 |
| Mo-T | µg/L | 0.08 | 73 |
| Ni-T | µg/L | 0.43 | * |
| Pb-T | µg/L | 0.891 | * |
| Se-T | µg/L | <0.04 | 1 |
| TI-T | µg/L | 0.004 | 0.8 |
| Zn-T | µg/L | 21.9 | 30 |
| CN-WAD | mg/L | 0.0008 | 0.005 |
| Total Ammonia | mg/L | 0.036 | 0.239 |
| Nitrite | mg/L | <0.005 | 0.06 |
| Nitrate | mg/L | 0.29 | 2.9 |
| pH-F | pH units | 7.49 | 6.5-9 |
| Temp-F | C | -0.1 | |
| Hardness - Total | mg/L | 84.6 | |
| Dissolved Sulphate | mg/L | 38 | |
| TSS | mg/L | <4 | |

| | | | |
|--------------------|----------|--------------------------------|--------------|
| Station Name | | V20A | |
| Description | | Dixon Ck u/s of mine influence | |
| Smpl Date | | 03/11/2010 | |
| Sample Class | | M | |
| eq Smpl # | | V20A_40485_M | CCME-Aquatic |
| Ag-T | µg/L | <0.005 | 0.1 |
| Al-T | µg/L | 64.9 | * |
| As-T | µg/L | 0.65 | 5 |
| Cd-T | µg/L | 0.026 | * |
| Cr-T | µg/L | 0.3 | 1 |
| Cu-T | µg/L | 1.08 | * |
| Fe-T | µg/L | 387 | 300 |
| Hg-T | µg/L | 0.01 | 0.026 |
| Mo-T | µg/L | 0.52 | 73 |
| Ni-T | µg/L | 0.4 | * |
| Pb-T | µg/L | 0.865 | * |
| Se-T | µg/L | 2.43 | 1 |
| TI-T | µg/L | <0.002 | 0.8 |
| Zn-T | µg/L | 7 | 30 |
| CN-WAD | mg/L | 0.0009 | 0.005 |
| Total Ammonia | mg/L | 0.019 | 0.239 |
| Nitrite | mg/L | <0.005 | 0.06 |
| Nitrate | mg/L | 0.08 | 2.9 |
| pH-F | pH units | 7.43 | 6.5-9 |
| Temp-F | C | -0.1 | |
| Hardness - Total | mg/L | 307 | |
| Dissolved Sulphate | mg/L | 14 | |
| TSS | mg/L | 25 | |

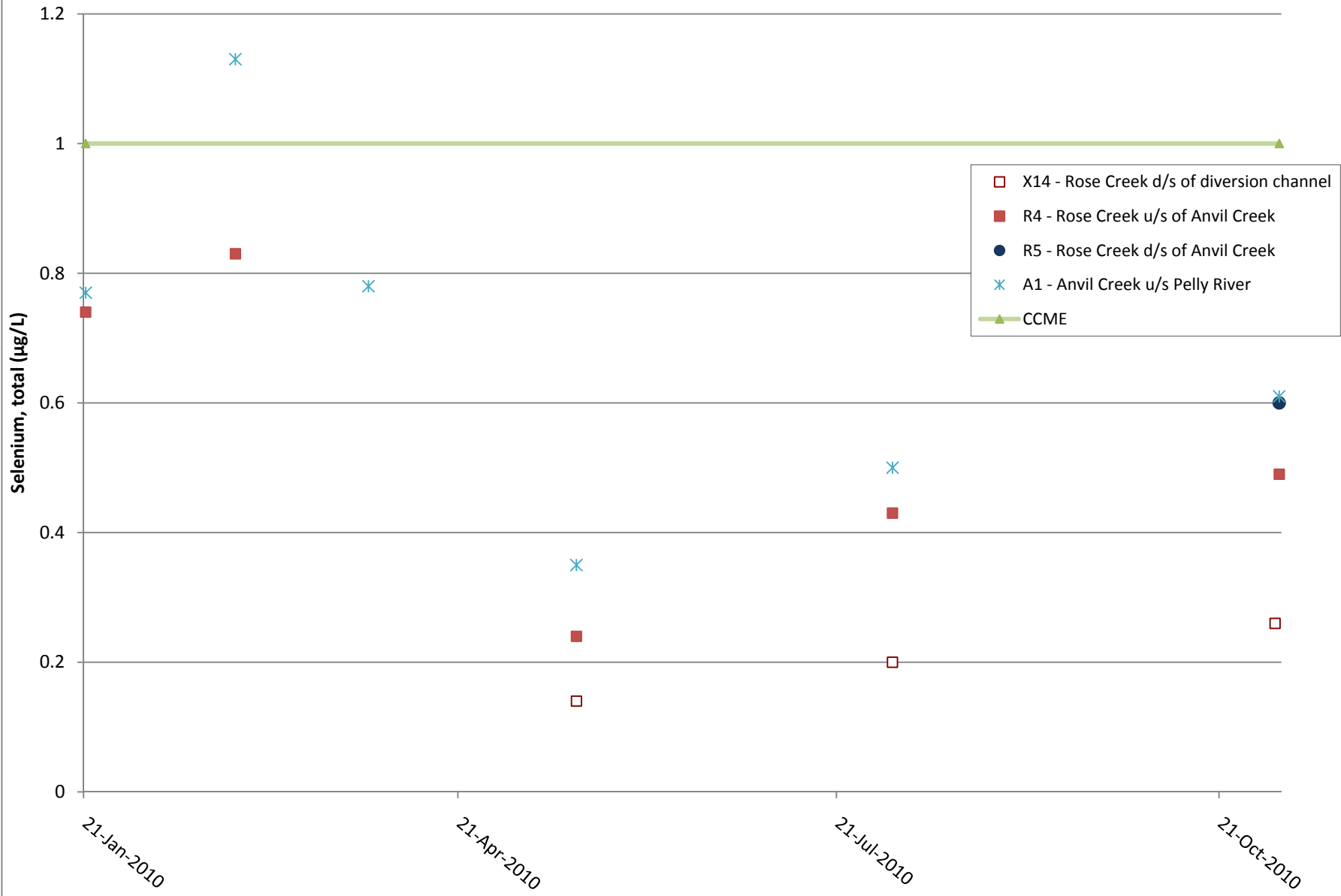
Rose and Anvil Creeks Water Quality, Total Cadmium



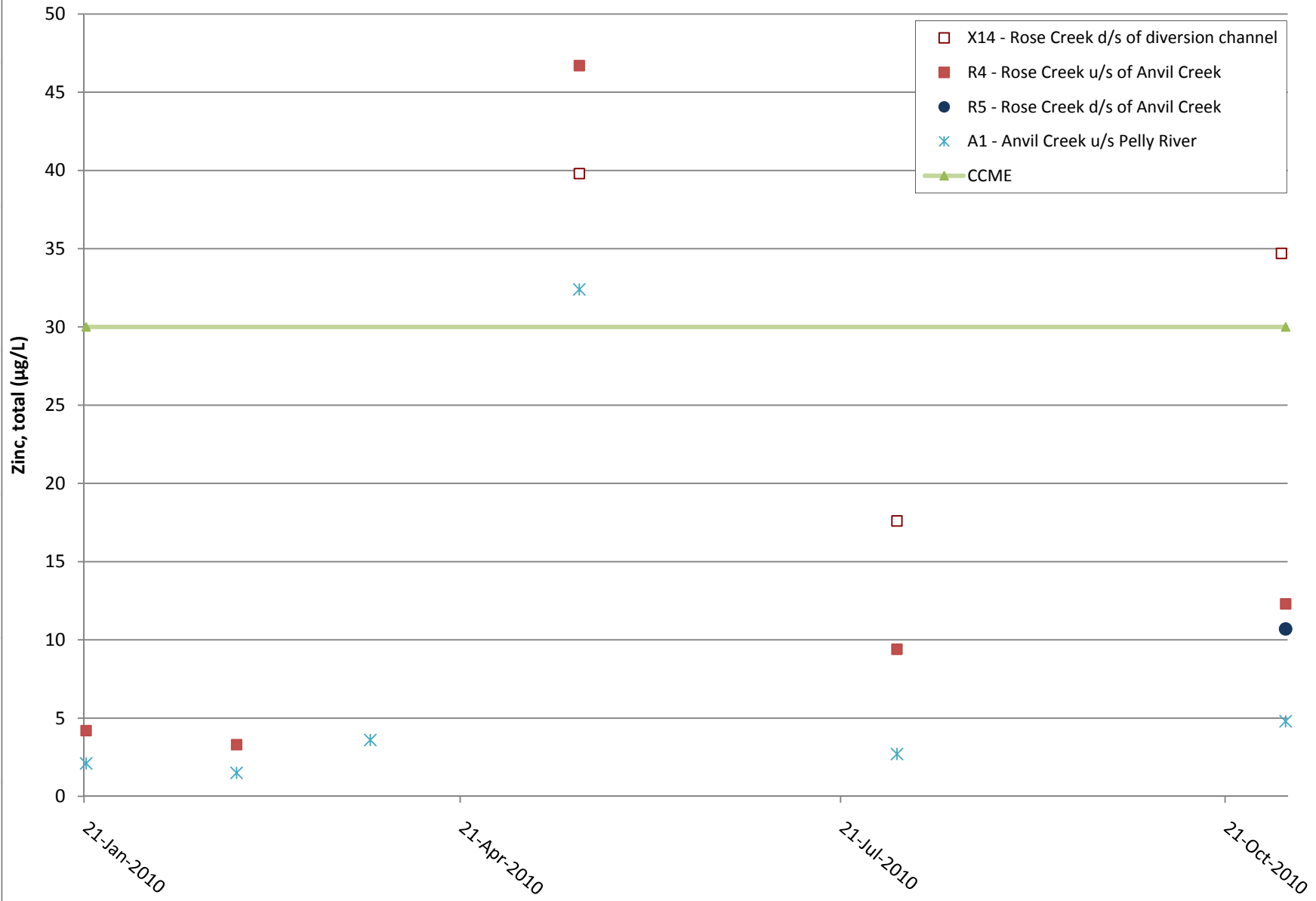
Rose and Anvil Creeks Water Quality, Total Lead



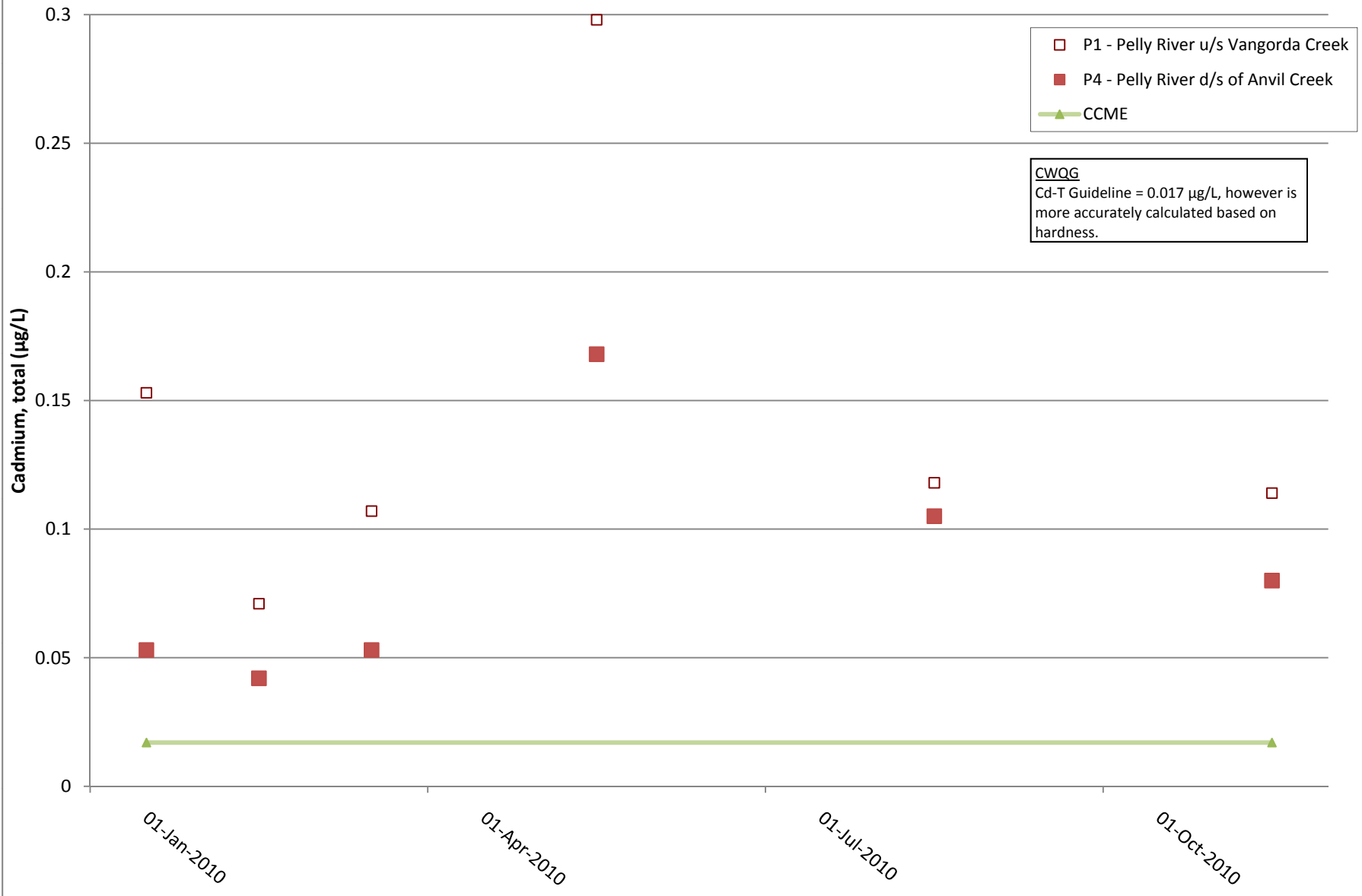
Rose and Anvil Creeks Water Quality, Total Selenium



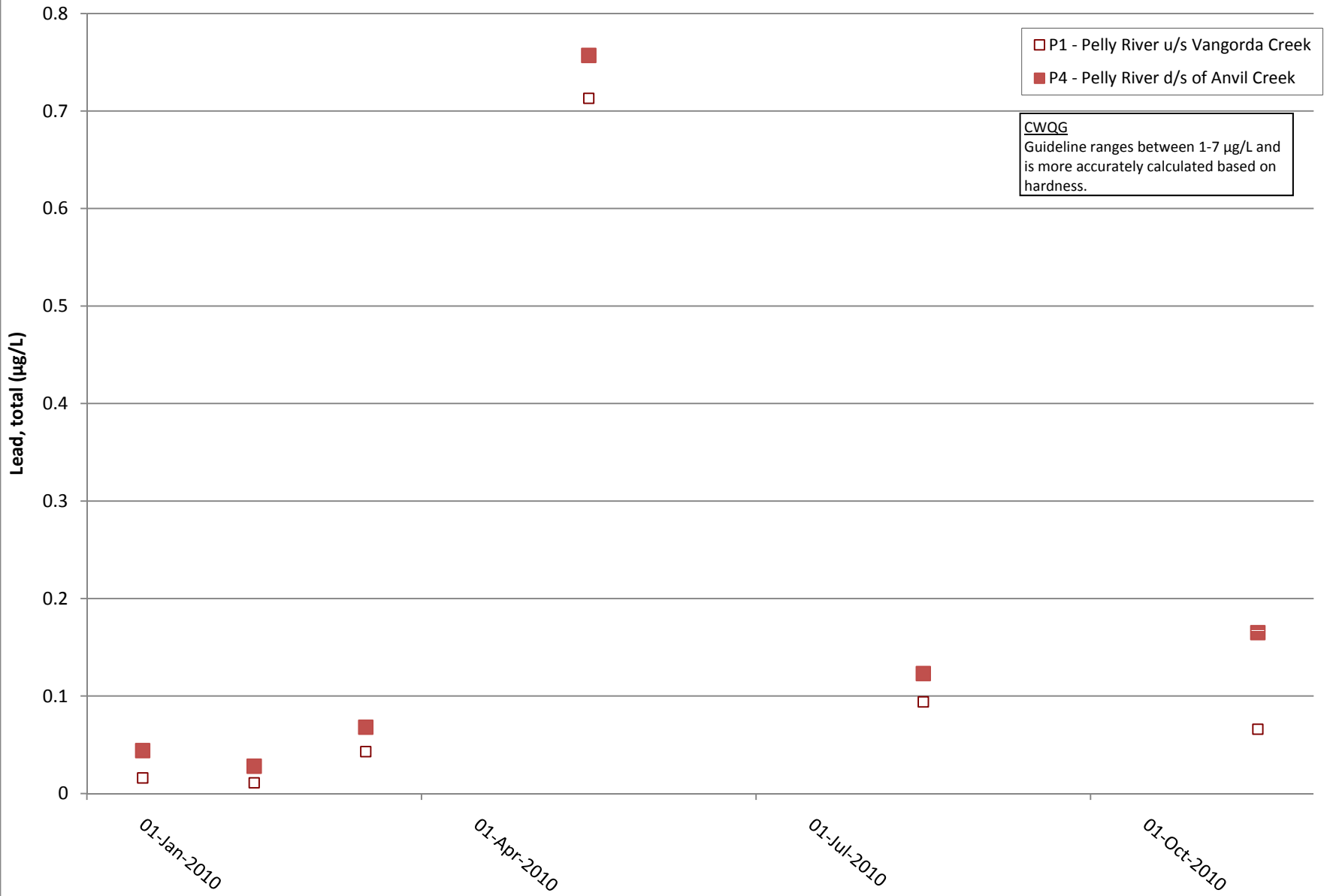
Rose and Anvil Creeks Water Quality, Total Zinc



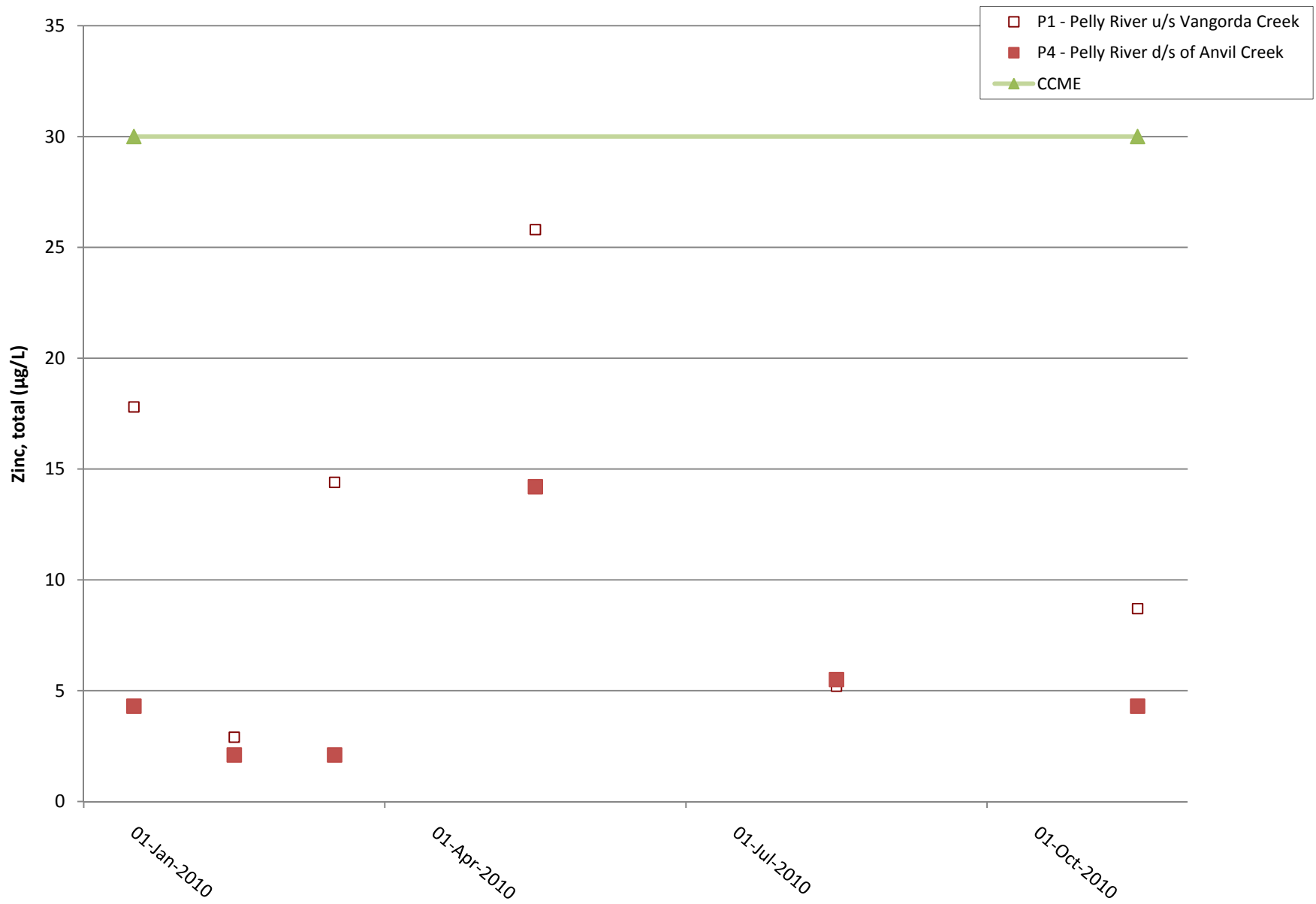
Pelly River Water Quality, Total Cadmium



Pelly River Water Quality, Total Lead



Pelly River Water Quality, Total Zinc



**Pelly River Aquatic Ecosystem
Monitoring Program
2010 Summary**

Laboratory Results Statistical Analysis

| | | Cd-T | Pb-T | Zn-T |
|-------------------------------------|------------------|--------------|-------|------|
| | | µg/L | µg/L | µg/L |
| CCME-Aquatic | | * | * | 30 |
| Station Name | Smpl Date | | | |
| P1 - Pelly River u/s Vangorda Creek | 21/01/2010 | 0.153 | 0.016 | 17.8 |
| P1 | 26/02/2010 | 0.071 | 0.011 | 2.9 |
| P1 | 30/03/2010 | 0.107 | 0.043 | 14.4 |
| P1 | 19/05/2010 | 0.298 | 0.713 | 25.8 |
| P1 | 03/08/2010 | 0.118 | 0.094 | 5.2 |
| P1 | 04/11/2010 | 0.114 | 0.066 | 8.7 |
| Average | | 0.143 | 0.157 | 12.5 |
| Count | | 6 | 6 | 6 |
| Minimum | | 0.071 | 0.011 | 2.9 |
| Maximum | | 0.298 | 0.713 | 25.8 |
| Geometric Mean | | 0.129 | 0.057 | 9.8 |
| Sum | | 0.861 | 0.943 | 74.8 |
| Count <DL | | 0 | 0 | 0 |
| Standard Deviation | | 0.08 | 0.274 | 8.6 |
| 1st Quartile | | 0.109 | 0.023 | 6.1 |
| Median | | 0.116 | 0.054 | 11.6 |
| 3rd Quartile | | 0.144 | 0.087 | 16.9 |
| Count Over Standard | | 6 | 0 | 0 |
| % Over Standard | | 100 | 0 | 0 |

* indicates standard based on hardness

Red bold highlight indicates exceedance

| | | Cd-T | Pb-T | Zn-T |
|-------------------------------------|------------------|--------------|-------|------|
| | | µg/L | µg/L | µg/L |
| CCME-Aquatic | | * | * | 30 |
| Station Name | Smpl Date | | | |
| P4 - Pelly River d/s of Anvil Creek | 21/01/2010 | 0.053 | 0.044 | 4.3 |
| P4 | 26/02/2010 | 0.042 | 0.028 | 2.1 |
| P4 | 30/03/2010 | 0.053 | 0.068 | 2.1 |
| P4 | 19/05/2010 | 0.168 | 0.757 | 14.2 |
| P4 | 03/08/2010 | 0.105 | 0.123 | 5.5 |
| P4 | 04/11/2010 | 0.08 | 0.165 | 4.3 |
| | | | | |
| Average | | 0.084 | 0.198 | 5.4 |
| Count | | 6 | 6 | 6 |
| Minimum | | 0.042 | 0.028 | 2.1 |
| Maximum | | 0.168 | 0.757 | 14.2 |
| Geometric Mean | | 0.074 | 0.104 | 4.3 |
| Sum | | 0.501 | 1.185 | 32.5 |
| Count <DL | | 0 | 0 | 0 |
| Standard Deviation | | 0.047 | 0.279 | 4.5 |
| 1st Quartile | | 0.053 | 0.05 | 2.6 |
| Median | | 0.067 | 0.096 | 4.3 |
| 3rd Quartile | | 0.099 | 0.154 | 5.2 |
| Count Over Standard | | 3 | 0 | 0 |
| % Over Standard | | 50 | 0 | 0 |

* indicates standard based on hardness

Red bold highlight indicates exceedance

| | | Cd-T | Pb-T | Se-T | Zn-T |
|---------------------|------------|--------------|-------------|-------------|-------------|
| Station Name | Smpl Date | µg/L | µg/L | µg/L | µg/L |
| CCME-Aquatic | | * | * | 1 | 30 |
| X14 | 19/05/2010 | 0.063 | 4.81 | 0.14 | 39.8 |
| X14 | 03/08/2010 | 0.024 | 0.168 | 0.2 | 17.6 |
| X14 | 03/11/2010 | 0.042 | 0.179 | 0.26 | 34.7 |
| R4 | 21/01/2010 | 0.007 | 0.073 | 0.74 | 4.2 |
| R4 | 26/02/2010 | 0.01 | 0.117 | 0.83 | 3.3 |
| R4 | 19/05/2010 | 0.097 | 4.89 | 0.24 | 46.7 |
| R4 | 03/08/2010 | 0.015 | 0.112 | 0.43 | 9.4 |
| R4 | 04/11/2010 | 0.023 | 0.164 | 0.49 | 12.3 |
| R5 | 04/11/2010 | 0.021 | 0.131 | 0.6 | 10.7 |
| A1 (Anvil Creek) | 21/01/2010 | 0.008 | 0.086 | 0.77 | 2.1 |
| A1 (Anvil Creek) | 26/02/2010 | 0.011 | 0.034 | 1.13 | 1.5 |
| A1 (Anvil Creek) | 30/03/2010 | 0.02 | 0.198 | 0.78 | 3.6 |
| A1 (Anvil Creek) | 19/05/2010 | 0.173 | 4.02 | 0.35 | 32.4 |
| A1 (Anvil Creek) | 03/08/2010 | 0.033 | 0.167 | 0.5 | 2.7 |
| A1 (Anvil Creek) | 04/11/2010 | 0.023 | 0.472 | 0.61 | 4.8 |
| Average | | 0.038 | 1.041 | 0.54 | 15.1 |
| Count | | 15 | 15 | 15 | 15 |
| Minimum | | 0.007 | 0.034 | 0.14 | 1.5 |
| Maximum | | 0.173 | 4.89 | 1.13 | 46.7 |
| Geometric Mean | | 0.025 | 0.268 | 0.46 | 8.5 |
| Sum | | 0.57 | 15.621 | 8.07 | 225.8 |
| Count <DL | | 0 | 0 | 0 | 0 |
| Standard Deviation | | 0.044 | 1.84 | 0.28 | 15.5 |
| 1st Quartile | | 0.013 | 0.115 | 0.3 | 3.5 |
| Median | | 0.023 | 0.167 | 0.5 | 9.4 |
| 3rd Quartile | | 0.038 | 0.335 | 0.76 | 25 |
| Count Over Standard | | 3 | 3 | 1 | 4 |
| % Over Standard | | 20 | 20 | 6.7 | 26.7 |

* indicates standard based on hardness Red bold highlight indicates exceedance

| | Smpl Date | X14 - Rose Creek d/s of diversion channel | R4 - Rose Creek u/s of Anvil Creek | R5 - Rose Creek d/s of Anvil Creek | A1 - Anvil Creek u/s Pelly River | CCME |
|---------------------|-----------------|--|---|---|--|-------|
| Cd-T | 21/01/2010 | | 0.007 | | 0.008 | 0.017 |
| | 26/02/2010 | | 0.01 | | 0.011 | |
| | 30/03/2010 | | | | 0.02 | |
| | 19/05/2010 | 0.063 | 0.097 | | 0.173 | |
| | 8/3/2010 10:30 | 0.024 | 0.015 | | 0.033 | |
| | 11/3/2010 14:10 | 0.042 | | | | |
| | 11/4/2010 13:50 | | 0.023 | 0.021 | 0.023 | 0.017 |
| | | | | | | |
| Average | | 0.043 | 0.03 | 0.021 | 0.045 | |
| Count | | 3 | 5 | 1 | 6 | |
| Minimum | | 0.024 | 0.007 | 0.021 | 0.008 | |
| Maximum | | 0.063 | 0.097 | 0.021 | 0.173 | |
| Geometric Mean | | 0.04 | 0.019 | 0.021 | 0.025 | |
| Sum | | 0.129 | 0.152 | 0.021 | 0.268 | |
| Count <DL | | 0 | 0 | 0 | 0 | |
| Standard Deviation | | 0.02 | 0.038 | 0 | 0.064 | |
| 1st Quartile | | 0.033 | 0.01 | 0.021 | 0.013 | |
| Median | | 0.042 | 0.015 | 0.021 | 0.021 | |
| 3rd Quartile | | 0.053 | 0.023 | 0.021 | 0.03 | |
| Count Over Standard | | 1 | 1 | 0 | 1 | |
| % Over Standard | | 33.3 | 20 | 0 | 16.7 | |

* indicates standard based on hardness Red bold highlight indicates exceedance

| | Smpl Date | X14 - Rose Creek d/s of diversion channel | R4 - Rose Creek u/s of Anvil Creek | R5 - Rose Creek d/s of Anvil Creek | A1 - Anvil Creek u/s Pelly River |
|---------------------|-----------------|--|---------------------------------------|---------------------------------------|-------------------------------------|
| Pb-T | 21/01/2010 | | 0.073 | | 0.086 |
| | 26/02/2010 | | 0.117 | | 0.034 |
| | 30/03/2010 | | | | 0.198 |
| | 19/05/2010 | 4.81 | 4.89 | | 4.02 |
| | 8/3/2010 10:30 | 0.168 | 0.112 | | 0.167 |
| | 11/3/2010 14:10 | 0.179 | | | |
| | 11/4/2010 13:50 | | 0.164 | 0.131 | 0.472 |
| | | | | | |
| Average | | 1.719 | 1.071 | 0.131 | 0.829 |
| Count | | 3 | 5 | 1 | 6 |
| Minimum | | 0.168 | 0.073 | 0.131 | 0.034 |
| Maximum | | 4.81 | 4.89 | 0.131 | 4.02 |
| Geometric Mean | | 0.525 | 0.238 | 0.131 | 0.238 |
| Sum | | 5.157 | 5.356 | 0.131 | 4.977 |
| Count <DL | | 0 | 0 | 0 | 0 |
| Standard Deviation | | 2.677 | 2.135 | 0 | 1.57 |
| 1st Quartile | | 0.173 | 0.112 | 0.131 | 0.106 |
| Median | | 0.179 | 0.117 | 0.131 | 0.182 |
| 3rd Quartile | | 2.494 | 0.164 | 0.131 | 0.403 |
| Count Over Standard | | 1 | 1 | 0 | 1 |
| % Over Standard | | 33.3 | 20 | 0 | 16.7 |

* indicates standard based on hardness

Red bold highlight indicates exceedance

| | Smpl Date | X14 - Rose Creek d/s of diversion channel | R4 - Rose Creek u/s of Anvil Creek | R5 - Rose Creek d/s of Anvil Creek | A1 - Anvil Creek u/s Pelly River | CCME |
|---------------------|-----------------|--|---------------------------------------|---------------------------------------|-------------------------------------|------|
| Se-T | 21/01/2010 | | 0.74 | | 0.77 | 1 |
| | 26/02/2010 | | 0.83 | | 1.13 | |
| | 30/03/2010 | | | | 0.78 | |
| | 19/05/2010 | 0.14 | 0.24 | | 0.35 | |
| | 8/3/2010 10:30 | 0.2 | 0.43 | | 0.5 | |
| | 11/3/2010 14:10 | 0.26 | | | | |
| | 11/4/2010 13:50 | | 0.49 | 0.6 | 0.61 | 1 |
| | | | | | | |
| Average | | 0.2 | 0.55 | 0.6 | 0.69 | |
| Count | | 3 | 5 | 1 | 6 | |
| Minimum | | 0.14 | 0.24 | 0.6 | 0.35 | |
| Maximum | | 0.26 | 0.83 | 0.6 | 1.13 | |
| Geometric Mean | | 0.19 | 0.5 | 0.6 | 0.65 | |
| Sum | | 0.6 | 2.73 | 0.6 | 4.14 | |
| Count <DL | | 0 | 0 | 0 | 0 | |
| Standard Deviation | | 0.06 | 0.24 | 0 | 0.27 | |
| 1st Quartile | | 0.17 | 0.43 | 0.6 | 0.53 | |
| Median | | 0.2 | 0.49 | 0.6 | 0.69 | |
| 3rd Quartile | | 0.23 | 0.74 | 0.6 | 0.78 | |
| Count Over Standard | | 0 | 0 | 0 | 1 | |
| % Over Standard | | 0 | 0 | 0 | 16.7 | |

* indicates standard based on hardness

Red bold highlight indicates exceedance

| | Smpl Date | X14 - Rose Creek d/s of diversion channel | R4 - Rose Creek u/s of Anvil Creek | R5 - Rose Creek d/s of Anvil Creek | A1 - Anvil Creek u/s Pelly River | CCME |
|---------------------|-----------------|--|---------------------------------------|---------------------------------------|-------------------------------------|------|
| Zn-T | 21/01/2010 | | 4.2 | | 2.1 | 30 |
| | 26/02/2010 | | 3.3 | | 1.5 | |
| | 30/03/2010 | | | | 3.6 | |
| | 19/05/2010 | 39.8 | 46.7 | | 32.4 | |
| | 8/3/2010 10:30 | 17.6 | 9.4 | | 2.7 | |
| | 11/3/2010 14:10 | 34.7 | | | | |
| | 11/4/2010 13:50 | | 12.3 | 10.7 | 4.8 | 30 |
| | | | | | | |
| Average | | 30.7 | 15.2 | 10.7 | 7.9 | |
| Count | | 3 | 5 | 1 | 6 | |
| Minimum | | 17.6 | 3.3 | 10.7 | 1.5 | |
| Maximum | | 39.8 | 46.7 | 10.7 | 32.4 | |
| Geometric Mean | | 29 | 9.4 | 10.7 | 4.1 | |
| Sum | | 92.1 | 75.9 | 10.7 | 47.1 | |
| Count <DL | | 0 | 0 | 0 | 0 | |
| Standard Deviation | | 11.6 | 18 | 0 | 12.1 | |
| 1st Quartile | | 26.2 | 4.2 | 10.7 | 2.2 | |
| Median | | 34.7 | 9.4 | 10.7 | 3.2 | |
| 3rd Quartile | | 37.2 | 12.3 | 10.7 | 4.5 | |
| Count Over Standard | | 2 | 1 | 0 | 1 | |
| % Over Standard | | 66.7 | 20 | 0 | 16.7 | |

* indicates standard based on hardness

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