NORTH AMERICAN TUNGSTEN CORPORATION LTD

North American Tungsten Corporation Ltd.

MACTUNG PROJECT

2006 WATER QUALITY SAMPLING PROGRAM

12000163.005

April 2007

CREATING AND DELIVERING BETTER SOLUTIONS

eba

North American Tungsten Corporation Ltd.

MACTUNG PROJECT

2006 ENVIRONMENTAL BASELINE STUDIES

WATER QUALITY SAMPLING PROGRAM

1200163.005

April 2007

EBA Engineering Consultants Ltd.
p. 867.920.2287 • f. 867.873.3324
PO Box 2244 • 201, 4916 - 49 Street • Yellowknife, Northwest Territories X1A 2P7 • CANADA

EXECUTIVE SUMMARY

North American Tungsten Corporation Ltd. retained EBA Engineering Consultants Ltd. (EBA) in April 2006 to conduct baseline surface water quality sampling in the MacTung Project area (study area) to supplement historic surface water quality information for streams draining the Project area. This information is required for Project planning and future regulatory submissions leading to MacTung Project approvals and implementation. The sampling program comprised part of a more comprehensive environmental baseline study program being conducted which included components such as meteorology, hydrology, fisheries and aquatic studies, vegetation, terrain & soils, archaeology, and wildlife studies.

The streams sampled included the Hess River and Tributaries A and C of the Hess River in Yukon, and Dale Creek, the Tsichu River, and Cirque Creek in the Northwest Territories. The water quality sampling program conducted by EBA consisted of four sampling events undertaken in June, July, August and September, 2006, respectively.

All water samples were submitted to ALS Environmental in Edmonton for analysis of total and dissolved ultra-low metals, total organic carbon, low-level nutrients and low-level routine water chemistry. CCME FAL guidelines exceedances were observed for aluminum, cadmium, chromium, copper, iron, lead, nickel, selenium and zinc at certain stations. These exceedances were considered to be attributable to the natural existing geological conditions of the area. Most parameter concentrations were below laboratory detection limits. Generally, all parameters were comparable to historic water quality results reported by AMAX (1983) in 1973 - 1981 and CSMRI (1976).

The MacTung property is located in an area of high mineralization with large mineral deposits below and at the surface, which influence local surface water quality. There are underground springs seeping in at various locations, which expose surface water to the minerals, influencing its quality. During freshet in June, bank erosion caused by large volumes of run-off, as well as fines sourced from surface run-off from mountain slopes, contribute to sediment loading, and increased turbidity. Elevated metal concentrations are often correlated with higher turbidity occurring during freshet. With the exception of aluminum, cadmium, and nickel, parameter exceedances generally declined as the season progressed, water volumes reduced, and turbidity decreased.

Overall, the baseline study has shown that the water quality of the project area is typical of mountainous areas, with parameter exceedances mostly associated with freshet. The elevated parameter concentrations appear to be the result of natural occurrences with no anthropogenic influences suspected.

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1.0 INTRODUCTION

North American Tungsten Corporation Ltd. (NATCL) is considering development of a world-class tungsten deposit located in the Yukon near Macmillan Pass, on the border between the Northwest Territories and the Yukon (Figure 1). The mine site is located in the Selwyn Mountains at an elevation of 1,725-1,800 m a.s.l. The mine site is connected to the southern Yukon during summer months by the Canol Road, and is 650 km (400 air km) northeast of Whitehorse. The mine site is linked to the Canol Road just east of Macmillan Pass by a 10 km access road.

NATCL retained EBA to conduct baseline surface water quality sampling in the MacTung Project area (study area). This information is required for Project planning and future regulatory submissions leading to MacTung Project approvals and implementation. The sampling program comprised part of a comprehensive environmental baseline study being conducted within the MacTung study area which included components such as meteorology, hydrology, fisheries and aquatic studies, vegetation, terrain & soils, archaeology, and wildlife studies.

The streams sampled included the Hess River and Tributaries A and C of the Hess River in Yukon, and Dale Creek, the Tsichu River, and Cirque Creek in the Northwest Territories. The water quality sampling program conducted by EBA consisted of four sampling events undertaken in June, July, August and September, 2006, respectively.

2.0 ENVIRONMENTAL SETTING

2.1 GENERAL DESCRIPTION

The region is characterized by rugged mountain terrain, which forms part of the continental divide and are known as the Mackenzie Mountains. Considered a northern extension of the Rocky Mountains, the region includes some very high peaks. Climatic conditions vary with elevation and vegetation varies in response, with primarily alpine and subalpine open woodland zones. Barren talus slopes are also present, particularly in the higher elevations. The region was glaciated during the last ice advance and numerous glacial features have been identified. Permafrost is discontinuous (Environment Canada 2000). The headwaters of the Hess River are located on the Yukon side of the border and the headwaters of the Peel River are located in the NWT.

Although the majority of the MacTung Project area is situated in an alpine environment (dominated by grasses, lichen, moss and small shrubs) or on rock-scree slopes, extensive stands of shrub communities occur nearby, including within the proposed areas for both the Yukon and NWT tailings pond location options. Shrub birch and willow appear to be dominant and are dense (EBA 2006). The nearest settlements are Ross River in Yukon and Norman Wells and Tulita in the NWT.

A comprehensive environmental baseline study of the MacTung Project study area was prepared by AMAX Northwest Mining Company Ltd. in 1983 (AMAX 1983). This report compiled environmental data collected from 1977 to 1982. A summary of the water quality data reported for this earlier work is presented below.

2.2 WATER QUALITY

Water Quality data were acquired in the MacTung study area by AMAX between 1977 and 1981. Water quality in Dale Creek, NWT was found to be generally good with low turbidity. Water quality in the Upper Tsichu River, upstream of confluence with Dale Creek was often found to be acidic, with pH values as low as 4.7. Metal concentrations in the Upper Tsichu River were also typically higher than levels found in Dale Creek. The headwaters of the Tsichu River contain black pyrite shale from which acid rock drainage is common. Rusty, red-coloured, acidic water can be produced through oxidation of pyrite, which in turn dissolves iron and sulphate. Through contact with more alkaline water, precipitation of iron in the form of siderite (FeCO3) and calcium sulphate can occur. Siderite is visible as a red stain, while calcium sulphate is a white precipitate. Both conditions are (naturally) present in the upper Tsichu River drainage.

In the lower Tsichu River, pH values were neutral or higher and metal concentrations lower, indicating that Dale Creek had a moderating effect on the poorer water quality of the Upper Tsichu River. The water quality in Cirque Creek (and Cirque Lake) was determined to be excellent in terms of potability and growth and survival of fish. Turbidity was generally found to be very low and metals levels were at or below detection limits.

The Hess River is located on the western slope of Macmillan Pass on the Yukon side of the project study area. A tributary of the Hess River separates the MacTung Project area from the Keele Peak area to the northwest. The water quality in the Hess River tributaries was determined to be generally good with higher conductivity and dissolved solids and low alkalinity. However, the water quality in the Hess and main tributary was determined to be of better quality than in the feeder tributaries.

Dale Creek and the Tsichu River are characterized by high and irregular flow rates. Runoff in these streams is strongly controlled by snowmelt, storm patterns, and the nature of the substrate. Because of the large extent of exposed rock at higher elevations and thin soils over much of the lower valleys, spring runoff is rapid. Although the lower elevations are not underlain by permafrost, soils are generally frozen during snowmelt, thus limiting infiltration. Stream substrates are scoured by suspended and saltating sediments, thereby minimizing colonization be aquatic plants (AMAX 1983).

3.0 2006 FIELD PROGRAM

Figure 1 illustrates the location of the MacTung Project Area. Figure 2 illustrates the water quality sampling station locations with respect to the Local Study Area (the area covered by high resolution satellite imagery; 15x15 km) and the Regional Study Area.

Five of the water quality sampling stations (WQ1, WQ2, WQ3, WQ4, and WQ9) were located on the Yukon side of study area; WQ1 was located at Tributary C of the Hess River, WQ2 was located at Tributary A of the Hess River, WQ3 was located on the Hess River upstream of its confluence with Tributary A. WQ4 was located on the Hess River downstream of its confluence with Tributary A, and WQ9 was located on the South Macmillan River. Stations WQ1 through WQ4 were located on the western side of MacMillan Pass and flow northwest into the Stewart River in Yukon Territory.

Four of the water quality sampling stations (WQ5, WQ6, WQ7 and WQ8) were located on the NWT side of project area. WQ5 was located on Dale Creek, WQ6 was located midway on the Tsichu River, WQ7 was located on the Lower Tsichu River, and WQ8 was located at the outlet of Cirque Lake. These stations fall on the eastern slope of MacMillan Pass and flow eastwards into the Peel River in the Northwest Territories.

Some of the selected stations corresponded to the 2006 Fisheries Sampling Program stations: WQ7 is located near FS3; WQ1 is located near FS6; WQ2 is located near FS7; WQ3 is located near FS8; and WQ4 is located near FS9. Table 1 presents the UTM coordinates for each water quality sampling station sampled during 2006. Photographs of each sampling station are appended.

TABLE 1. UTM CO-ORDINATES OF MACTUNG WATER SAMPLING STATIONS

Station #	Description	Northing	Easting
WQ1	Tributary C of the Hess River	7 017 940	437 079
WQ2	Tributary A of the Hess River	7 020 369	433 977
WQ3	Hess River, upstream of confluence with Tributary A	7 021 804	435 456
WQ4	Hess River, downstream of confluence with Tributary A	7 020 798	431 416
WQ5	Dale Creek	7 015 917	444 966
WQ6	Mid Tsichu River	7 016 906	448 800
WQ7	Lower Tsichu River	7 019 159	453 768
WQ8	Outlet of Cirque Lake	7 018 381	443 681
WQ9	South Macmillan River	7 007 141	441 572

Map Datum: NAD 1983, Zone 9VNorth

Surface water samples were collected at the respective sampling stations on June 15-17, July 8-9, August 5-6, and September 20 in 2006. Mr. Steve Moore and Ms. Karla Langlois conducted the water sampling program during the June, August and September sampling events and Mr. Moore conducted the water-sampling program in July.

Water quality samples were collected in accordance with standard procedures for analysis of standard parameters including total metals, dissolved metals, major ions, nutrients and inorganics. All bottles were rinsed three times with source water (i.e. the same water the bottle was filled with) at each sampling site before drawing the sample. Samples collected for nutrients were preserved with 2 ml of 1:1 sulfuric acid. The dissolved metal samples were filtered in the field using dedicated disposable Nalgene 45-micrometre (μm) filters. Water samples collected for both total and dissolved metals were preserved using 1 millilitre (ml) of ultra-pure 1:1 nitric acid. Water samples collected for total organic carbon were preserved with 1 ml of 1:1 sulfuric acid. All samples were transported in portable coolers with ice packs during transport.

4.0 QUALITY ASSURANCE / QUALITY CONTROL PROGRAM

ALS Environmental (ALS) in Edmonton prepared all water-sampling bottles. Total and dissolved ultra-low level metal bottles were acid-washed with ultra-trace grade 1:1 nitric acid by ALS in the laboratory. Powderless latex gloves were worn during handling of bottles and equipment to minimize contamination. All bottles were rinsed three times with the source water prior to water collection. To minimize trace metals contamination from the filters, filters were rinsed three times with source water prior filling the bottles.

As part of a Quality Assurance/Quality Control (QA/QC) program, travel blanks were used and field blanks and duplicates were collected. Travel blanks and field blanks are used to assess contamination from sample containers or other equipment used in the collection and handling of samples, and to detect other systematic or random errors from sampling through to analysis. Duplicates were collected in order to test the validity of sampling procedures and laboratory methodology.

Travel blanks were prepared by ALS and shipped along with the sample bottles. Bottles were filled with deionized water and preserved in the laboratory prior to shipment. Travel blank bottles remained completely sealed until they were returned to ALS for analysis. One set of travel blanks was used for each sampling event.

Field blanks were prepared in the field in the same environment in which the water samples were collected. Once in the field, field blank sample bottles were filled with deionized water and preserved. One set of field blanks was collected for each sampling event.

A disposable 45-μm Nalgene filter was submitted to the laboratory along with each sampling event. This filter blank is used to ensure that possible metals introduced into the dissolved samples from the filtering process are accounted for.

Duplicates were prepared in the field in the same environment in which the original water samples were collected. One set of duplicates was collected during the June sampling event at water quality station WQ1, and two sets of duplicates were collected during the July, August and September sampling events at water quality stations WQ3 and WQ8.

5.0 ANALYTICAL PROGRAM

Water samples were submitted to ALS in Edmonton, a laboratory accredited by the Canadian Association for Environmental Analytical Laboratories (CAEAL). Laboratory results and Quality Assurance and Quality Control (QA/QC) are included in Appendix B.

Water samples were analysed for total organic carbon, low-level nutrients and low-level routine water chemistry (major ions and physical parameters). Samples were also analyzed for total and dissolved metals. Metals were analysed at ultra-low level. If suspended solids in the sample amounted to a turbidity concentration greater than 1 NTU, metals were analyzed at low level. As a result of an incident in the field, water samples collected in June at stations WQ6 and WQ7 were not filtered and preserved. Consequently, ALS had to perform extractable analysis for metals for these samples. Due to the nature of the analysis, results were not comparable to other total and dissolved analyses and as such are presented but not discussed. A list of specific parameters analysed and their respective detection limits are presented in Table 2.

TABLE 2. PARAMETER DETECTION LIMITS

Analyte	Detection Limits	Units
Chloride (Cl)	1	mg/L
Fluoride (F)	---	mg/L
Calcium (Ca)	0.5	mg/L
Potassium (K)	0.1	mg/L
Magnesium (Mg)	0.1	mg/L
Sodium (Na)	1	mg/L
Ion Balance	---	%
TDS (Calculated)	---	mg/L
Hardness (as CaCO3)	---	mg/L
Iron-Extractable	0.005	mg/L
Manganese-Extractable	0.001	mg/L
Nitrate+Nitrite-N	0.006/0.1*	mg/L
Nitrate-N	0.006/0.1*	mg/L
Nitrite-N	0.002/0.05**	mg/L
Sulfate (SO4)	0.05/0.5***	mg/L
pH	0.1	pH
Conductivity (EC)	0.2	µS/cm
Bicarbonate (HCO3)	5	mg/L
Carbonate (CO3)	5	mg/L
Hydroxide (OH)	5	mg/L
Alkalinity, Total (as CaCO3)	5	mg/L
Ammonia-N	0.005	mg/L
Phosphorus, Total	0.001	mg/L
Total Organic Carbon	1	mg/L
Redox Potential	---	---
Chloride (Cl)	1	mg/L

TABLE 2 – PARAMETER DETECTION LIMITS				
Metals	**Ultra Low Level (Total and Dissolved)**	**Low Level**	**Extract Analysis**	
Silver (Ag)	0.0001	0.0004	0.0002	mg/L
Aluminum (Al)	0.0003	0.02	0.01	mg/L
Arsenic (As)	0.00003	0.0004	0.0004	mg/L
Boron (B)	0.001	0.02	0.002	mg/L
Barium (Ba)	0.00005	0.0002	0.0001	mg/L
Beryllium (Be)	0.0002	0.001	0.0005	mg/L
Bismuth (Bi)	---	0.0001	0.00005	mg/L
Calcium (Ca)	0.02	0.5	0.5	mg/L
Cadmium (Cd)	0.00005	0.0002	0.0001	mg/L
Cobalt (Co)	0.0001	0.0002	0.0001	mg/L
Chromium (Cr)	0.00006	0.0008	0.0004	mg/L
Copper (Cu)	0.0006	0.001	0.0006	mg/L
Iron (Fe)	0.005	0.005	0.005	mg/L
Lithium (Li)	0.0001	---	---	mg/L
Mercury (Hg)	0.00002	---	---	mg/L
Potassium (K)	0.02	0.1	0.1	mg/L
Magnesium (Mg)	0.004	0.1	0.01	mg/L
Manganese (Mn)	0.0001	0.001	0.001	mg/L
Molybdenum (Mo)	0.00006	0.0001	0.0001	mg/L
Sodium (Na)	0.005	1	0.5	mg/L
Nickel (Ni)	0.00006	0.0002	0.0001	mg/L
Lead (Pb)	0.00005	0.0001	0.0001	mg/L
Antimony (Sb)	0.00003	0.0004	0.0004	mg/L
Selenium (Se)	0.0001	0.0004	0.0004	mg/L
Strontium (Sr)	0.0001	0.0002	0.0001	mg/L
Silicon (Si)	0.1	0.1	---	mg/L
Tin (Sn)	---	0.0004	0.0002	mg/L
Titanium (Ti)	---	0.005	0.0003	mg/L
Thallium (Tl)	---	0.0001	0.00005	mg/L
Uranium (U)	0.00005	0.0001	0.0001	mg/L
Vanadium (V)	0.00005	0.0002	0.0001	mg/L
Zinc (Zn)	0.0008	0.004	0.002	mg/L
Silver (Ag)	0.0001	0.0004	0.0002	mg/L
Aluminum (Al)	0.0003	0.02	0.01	mg/L
Arsenic (As)	0.00003	0.0004	0.0004	mg/L
Boron (B)	0.001	0.02	0.002	mg/L
Barium (Ba)	0.00005	0.0002	0.0001	mg/L
Beryllium (Be)	0.0002	0.001	0.0005	mg/L
Bismuth (Bi)	---	0.0001	0.00005	mg/L
Calcium (Ca)	0.02	0.5	0.5	mg/L
Cadmium (Cd)	0.00005	0.0002	0.0001	mg/L
Cobalt (Co)	0.0001	0.0002	0.0001	mg/L
Chromium (Cr)	0.00006	0.0008	0.0004	mg/L

TABLE 2 – PARAMETER DETECTION LIMITS				
Metals	**Ultra Low Level (Total and Dissolved)**	**Low Level**	**Extract Analysis**	
Copper (Cu)	0.0006	0.001	0.0006	mg/L
Iron (Fe)	0.005	0.005	0.005	mg/L
Lithium (Li)	0.0001	---	---	mg/L
Mercury (Hg)	0.00002	---	---	mg/L
Potassium (K)	0.02	0.1	0.1	mg/L
Magnesium (Mg)	0.004	0.1	0.01	mg/L
Manganese (Mn)	0.0001	0.001	0.001	mg/L
Molybdenum (Mo)	0.00006	0.0001	0.0001	mg/L
Sodium (Na)	0.005	1	0.5	mg/L
Nickel (Ni)	0.00006	0.0002	0.0001	mg/L
Lead (Pb)	0.00005	0.0001	0.0001	mg/L

*Detection limit was 0.006 mg/L in June, July and September, 2006, and 0.1 mg/L in August, 2006

**Detection limit was 0.002 mg/L in June, July and September, 2006, and 0.05 mg/L in August, 2006
***Detection limit was 0.05 mg/L in June, July and September, 2006, and 0.5 mg/L in August, 2006

In some circumstances (mainly if low- rather than ultra-low analysis was performed on the sample), detection limits were above the Canadian Council of Ministers of the Environment (CCME) Canadian Water Quality Guidelines for the Protection of Freshwater Aquatic Life (FAL) (2006). In this situation, a concentration reported as below detection may actually exceed applicable guidelines. For example, the CCME guideline for silver (Ag) is 0.0001 mg/L, yet the low-level detection limit for silver is 0.0004 mg/L and 0.0002 mg/L for total and dissolved, respectively. Where this occurred, reported results (Tables through 7) are shaded in grey.

6.0 QA/QC RESULTS AND DISCUSSIONS

6.1 QA/QC BLANKS

Three sets of QA/QC blanks were used for each sampling event; travel, field and filter blanks. The travel and field blanks were analysed for total and dissolved ultra-low level metals, total organic carbon, low-level nutrients and low-level routine water chemistry. The filter blanks were analysed for dissolved ultra-low level metals. A summary of the metal parameters found to be above detection limits are presented in Table 3. Comprehensive laboratory results and laboratory QA/QC reports are included in Appendix A.

TABLE 3. METALS ABOVE DETECTION LIMITS FOR MACTUNG QA/QC BLANKS, 2006

Sampling Event	Ultra-low Analysis	Travel Blanks	Field Blanks	Filter Blanks
June 15-17	Total	**Aluminum**, Antimony*, **Zinc**	Aluminum****, Antimony*, Calcium****, Sodium****	n/a
	Dissolved	Antimony*	Aluminum***, Antimony*, Calcium***, Nickel**, Sodium***, Strontium**, Zinc**	Aluminum, Antimony, Calcium, Nickel, Sodium, Strontium, Zinc
July 8-9	Total	Antimony*	Sodium****, **Tin**	n/a
	Dissolved	Antimony*	Antimony*, Calcium**, Nickel**, Sodium***, **Tin**, Zinc**	Aluminum, Antimony, Calcium, Magnesium, Manganese, Nickel, Potassium, Sodium, Strontium, Zinc
August 5-6	Total	Antimony*, **Sodium**	Aluminum****, Antimony*, Barium****, Calcium****, Sodium****, Strontium****, **Vanadium**	n/a
	Dissolved	Antimony*, **Barium**, **Copper**, **Lead**	Aluminum***, Barium***, Calcium***, Nickel**, Sodium***, Strontium***, Zinc**	---
September 20	Total	**Boron**, **Chromium**	Aluminum****, Barium****, Manganese****, Sodium****, Strontium****, Zinc****	n/a
	Dissolved	**Aluminum**, Antimony*, **Boron**, **Nickel**, **Sodium**, **Zinc**	Aluminum***, Antimony*, Barium***, Calcium**, Magnesium***, Manganese****, Nickel**, Sodium***, Strontium***, Zinc***	Aluminum, Antimony, Barium, Calcium, Chromium, Nickel, Potassium, Sodium, Strontium, Zinc

Notes:
All of the above were above detection limits but not above CCME Guidelines
Bolded items may have been introduced through contamination. --- Not submitted
*May have been introduced from the sampling bottles.
**May have been introduced through the filter membrane (dissolved only).
***May have been introduced through the filter membrane, but since also present in total analysis have been introduced through the deionized water. ****May have been introduced through the deionized water.

Concentrations of total aluminum, antimony, boron, chromium, sodium and zinc were detected in the travel blanks using the ultra-low level metals analysis. Concentrations of dissolved aluminum, antimony, barium, boron, copper, lead, nickel, sodium and zinc were detected in the travel blanks using the ultra-low level metals analysis. The contaminants

found in the travel blanks can be attributed to one or a combination of three sources: laboratory errors, deionized water and/or bottles/containers. The sample bottles routinely contain detectable levels of antimony, which potentially accounts for the antimony detected in the travel blanks. The remainder of the metals found to be above detection in the travel blanks were likely sourced from the deionized water or aberrant artefacts as a result of laboratory procedure.

Concentrations of total aluminum, antimony, barium, calcium, manganese, sodium, strontium, tin, vanadium and zinc were detected in the field blanks using the ultra-low level metals analysis. Concentrations of dissolved aluminum, antimony, barium, calcium, magnesium, manganese, nickel, sodium, strontium, tin and zinc were detected in the field blanks using the ultra-low level metals analysis. Since the main purpose of a field blank is to test for field contamination, all field blank results were compared to travel blank results. In the previous section, it was indicated that the sample bottles used contained trace amounts of antimony. Furthermore, field filters submitted to ALS for analysis of dissolved ultra-low level metals indicated that concentrations of aluminum, antimony, barium, calcium, chromium, magnesium, manganese, nickel, potassium, sodium, strontium, zinc were above detection limits. Therefore, based on these analyses, the trace amounts of contamination found in the field blanks can be attributed to the bottles/containers, the filters that were used, and/or possibly the deionized water. Tin was detected in the total and dissolved July field blanks and vanadium was detected in the August total analysis, well above the detection limits of 0.0001 mg/L and 0.0005 mg/L, respectively. The presence of tin and vanadium may be a result of contamination.

6.2 DUPLICATES

Duplicates were collected during each sampling event and were analysed for total and dissolved ultra-low level metals (low level if abundant suspended solids were present in the sample), total organic carbon, low-level nutrients and low-level routine water chemistry.

ALS performed a statistical analysis on the all the duplicate samples to determine if the duplicates were statistically similar or different from the original samples. The results of the analysis indicated that in general the duplicates were similar to their original samples.

7.0 ANALYTICAL RESULTS AND DISCUSSION

The water quality results at all nine of the sampling locations for 2006 were typical of natural background values for this area of the Yukon and NWT, and is indicative of the natural mineral richness of the region. The 2006 water quality results were compared, whenever possible, to the results reported in the initial environmental evaluation for work conducted during the period 1973 through 1981 by AMAX Northwest Mining Company Limited (AMAX) (1983) and another study conducted by the Colorado School of Mines and Research Institute (CSMRI) (1976).

The seasonal flow in mountain streams follows a typical annual pattern. In June, the streams are generally torrents and swollen with flooding banks as a result of spring freshet. Active erosion occurs on the valley slopes, generating turbid water. In July, the water levels drop and rivers become confined to their active channel widths. Less erosion occurs and stream turbidity consequently declines.

By August and September, stream flows typically continue to drop (in some cases to half of what they were in July), and become more clear in many areas. Elevated metal concentrations are often correlated with higher turbidity occurring during freshet, with gradual declines in values occurring as the season progresses. This seasonal trend was observed with the 2006 water quality results. Due to the elevated amount of suspended solids in the June and July water samples, ALS was unable to conduct the ultra-low level analyses requested by EBA, and thus conducted low level analyses. By August, all but three stations were clear enough to be analyzed at the preferred ultra-low level, and by September, all water samples could be analyzed at ultra-low level.

The overall water quality was found to be slightly alkaline with high levels of conductivity. Nutrient parameters such as ammonia and nitrate were either below laboratory detection limits or very low, while phosphorous at most stations was well above detection in June and July. Parameter concentrations were mostly below existing federal CCME guideline criteria and laboratory detection limits; however a few of the metals at certain stations were consistently above CCME guidelines. Generally, all parameters were comparable to the water quality results reported by AMAX (1983) in 1973 - 1981 and CSMRI (1976).

Chemical analytical results for the 2006 water quality sampling program at MacTung are presented in Tables 4-7. Average values of pH, conductivity, ammonia, nitrate, total phosphorous and major ions are presented in Table 8.

<1	<1	<1	<1	<1	1	<1	---	---	---	---	mg/L
---	---	---	---	---	---	---	---	---	---	---	mg/L
25.6	22.8	9.2	13.8	11	22.1	8.4	---	---	---	---	mg/L
0.6	0.4	0.4	0.5	0.3	1.3	0.6	---	---	---	---	mg/L
2.1	5.4	3.8	4.5	1.5	1.3	1.3	---	---	---	---	mg/L
<1	<1	<1	<1	<1	<1	<1	---	---	---	---	mg/L
102	104	Low EC	110	Low EC	94.3	Low EC	---	---	---	---	%
88	97	43	61	38	72	30	---	---	---	---	mg/L
73	79	39	53	34	61	26	---	---	---	---	mg/L
---	---	---	---	---	---	---	---	---	---	---	mg/L
---	---	---	---	---	---	---	---	---	---	---	mg/L
0.062	0.072	0.03	0.041	0.026	0.036	0.015	---	---	---	---	mg/L
0.062	0.072	0.027	0.041	0.026	0.036	0.015	---	---	---	---	mg/L
<0.002	<0.002	0.002	0.002	<0.002	<0.002	<0.002	---	---	---	---	mg/L
43.1	58.2	21.7	33.4	15.6	20.1	13.7	---	---	---	---	mg/L
7.8	7.5	7.5	7.5	7.5	8	7.4	---	---	---	---	pH
157	173	83.8	115	72.9	134	58.7	---	---	---	---	µS/cm
33	19	16	17	18	53	12	---	---	---	---	mg/L
<5	<5	<5	<5	<5	<5	<5	---	---	---	---	mg/L
<5	<5	<5	<5	<5	<5	<5	---	---	---	---	mg/L
27	16	13	14	15	43	10	---	---	---	---	mg/L
<0.005	<0.005	<0.005	<0.005	<0.005	0.134	0.052	---	---	---	---	mg/L
0.037	0.052	0.026	0.04	0.017	13.5	0.652	---	---	---	---	mg/L
1	1	1	2	2	8	3	---	---	---	---	mg/L
---	---	---	---	---	---	---	---	---	---	---	---
<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	0.0006	<0.0004	---	---	---	---	mg/L
1.02	2.42	1	1.51	0.38	200	22.2	---	---	---	---	mg/L
0.003	0.0026	0.0014	0.0021	0.0034	0.383	0.0535	---	---	---	---	mg/L
<0.02	<0.02	<0.02	<0.02	<0.02	0.02	<0.02	---	---	---	---	mg/L
0.0979	0.112	0.0332	0.0671	0.0488	7.76	0.923	---	---	---	---	mg/L
<0.001	<0.001	<0.001	<0.001	<0.001	0.012	0.001	---	---	---	---	mg/L
<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0084	0.0009	---	---	---	---	mg/L
24.2	25.3	8.5	12.6	10.6	120	12	---	---	---	---	mg/L
0.001	0.0033	<0.0002	0.001	0.0005	0.0271	0.0025	---	---	---	---	mg/L
0.0045	0.0073	0.0018	0.0035	0.0015	0.146	0.0153	---	---	---	---	mg/L
0.0014	0.0019	0.0014	0.0017	0.0011	0.272	0.0283	---	---	---	---	mg/L
0.01	0.023	0.003	0.009	0.005	0.619	0.073	---	---	---	---	mg/L
0.608	2	1.17	1.82	0.513	252	24.4	---	---	---	---	mg/L
---	---	---	---	---	---	---	---	---	---	---	mg/L
---	---	---	---	---	---	---	---	---	---	---	mg/L
0.8	0.8	0.6	0.7	0.5	43.3	5.2	---	---	---	---	mg/L
2.3	5.5	3.8	4.4	1.7	148	17.2	---	---	---	---	mg/L
0.107	0.116	0.047	0.075	0.032	3.64	0.346	---	---	---	---	mg/L
0.0031	0.0024	0.0004	0.0013	0.0014	0.0231	0.004	---	---	---	---	mg/L
<1	<1	<1	<1	<1	2	<1	---	---	---	---	mg/L
0.0227	0.0549	0.005	0.0199	0.0098	0.516	0.0628	---	---	---	---	mg/L
0.0006	0.001	0.0008	0.001	0.0004	0.161	0.0155	---	---	---	---	mg/L
0.0007	0.001	<0.0004	0.0005	0.0006	0.0031	0.0023	---	---	---	---	mg/L
0.0028	0.0024	<0.0004	0.0011	0.0015	0.0087	0.0014	---	---	---	---	mg/L
0.0829	0.0995	0.0322	0.0522	0.0411	0.348	0.0453	---	---	---	---	mg/L
---	---	---	---	---	---	---	---	---	---	---	mg/L
<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	0.0014	0.0006	---	---	---	---	mg/L
0.017	0.029	0.055	0.044	0.011	5.11	0.771	---	---	---	---	mg/L
<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0034	0.0003	---	---	---	---	mg/L
0.002	0.0016	0.0004	0.0007	0.0006	0.0352	0.0034	---	---	---	---	mg/L
0.0088	0.0091	0.0027	0.0053	0.0069	0.767	0.0792	---	---	---	---	mg/L
0.113	0.189	0.011	0.061	0.041	2.78	0.354	---	---	---	---	mg/L
<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0002	---	---	---	---	mg/L
0.0952	0.026	0.0372	0.0386	0.0165	33.6	6.94	---	---	---	---	mg/L
0.00117	0.00008	0.00037	0.00019	0.00071	0.0473	0.0122	---	---	---	---	mg/L
0.002	0.001	<0.001	0.001	<0.001	0.003	<0.002	---	---	---	---	mg/L
0.0265	0.0412	0.0142	0.0217	0.0228	1.94	0.335	---	---	---	---	mg/L
<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0062	0.0005	---	---	---	---	mg/L
---	---	---	---	---	0.00006	0.00006	---	---	---	---	mg/L
21.4	19.8	7.9	11.5	9.33	23.8	7.8	---	---	---	---	mg/L
0.00065	0.00282	<0.00005	0.0008	0.00026	0.0203	0.002	---	---	---	---	mg/L
0.0015	0.0049	0.0008	0.0018	0.0003	0.0992	0.0097	---	---	---	---	mg/L
<0.00006	<0.00006	<0.00006	<0.00006	<0.00006	0.0135	0.0078	---	---	---	---	mg/L
0.0019	0.0025	0.0008	0.0013	0.0015	0.215	0.029	---	---	---	---	mg/L
0.005	0.068	0.023	0.029	0.021	1.4	1.03	---	---	---	---	mg/L
---	---	---	---	---	---	---	---	---	---	---	mg/L
<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	---	---	---	---	---	---	mg/L
0.57	0.42	0.32	0.34	0.36	1.7	1.4	---	---	---	---	mg/L
1.93	5.02	3.6	3.99	1.36	1.51	1.44	---	---	---	---	mg/L
0.038	0.0717	0.0196	0.0324	0.0084	0.017	0.021	---	---	---	---	mg/L
0.00256	0.00116	0.00025	0.00052	0.00085	0.0011	0.0003	---	---	---	---	mg/L
0.626	0.403	0.354	0.369	0.211	<0.5	<0.5	---	---	---	---	mg/L
0.0131	0.0443	0.00353	0.0143	0.00545	0.176	0.0263	---	---	---	---	mg/L
<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.0455	0.0079	---	---	---	---	mg/L
0.00046	0.00045	0.00037	0.00042	0.00048	0.0008	<0.0004	---	---	---	---	mg/L
0.002	0.0023	0.0003	0.0008	0.0006	0.0015	0.0021	---	---	---	---	mg/L
0.0671	0.0814	0.026	0.0436	0.0332	0.294	0.0332	---	---	---	---	mg/L
---	---	---	---	---	---	---	---	---	---	---	mg/L
---	---	---	---	---	<0.0002	<0.0002	---	---	---	---	mg/L
---	---	---	---	---	0.021	0.0615	---	---	---	---	mg/L
---	---	---	---	---	0.00044	0.00007	---	---	---	---	mg/L
0.00072	<0.00005	0.00015	0.00009	0.00021	0.0162	0.002	---	---	---	---	mg/L
0.00068	0.00006	0.00006	<0.00005	<0.00005	0.0918	0.027	---	---	---	---	mg/L
0.0489	0.129	0.0063	0.0384	0.0198	0.981	0.13	---	---	---	---	mg/L

Guidelines for the Protection of Freshwater Aquatic Life (July 2006).

<1	<1	<1	<1	<1	<1	<1	<1	<1	---	mg/L	1
0.12	0.05	0.05	0.06	0.06	0.06	0.1	0.05	0.05	---	mg/L	0.05
28	8.3	8.1	13	18.3	18.9	16.2	8.7	8.6	---	mg/L	0.5
0.5	0.5	0.5	0.5	0.5	0.7	0.6	0.3	0.3	---	mg/L	0.1
6.6	3.2	3.2	4	2.5	2.2	3.1	0.4	0.4	---	mg/L	0.1
<1	<1	<1	<1	<1	<1	<1	<1	<1	---	mg/L	1
94.2	Low EC	Low EC	94.5	101	94.7	90.3	Low EC	Low EC	---	%	
129	42	42	63	65	69	75	31	30	---	mg/L	
97	34	33	49	56	56	53	23	23	---	mg/L	
0.617	0.516	0.526	0.542	0.047	0.151	0.741	0.009	0.01	---	mg/L	0.005
0.092	0.032	0.032	0.043	0.01	0.019	0.096	0.058	0.061	---	mg/L	0.001
0.053	0.023	0.022	0.028	0.036	0.023	0.027	<0.006	<0.006	---	mg/L	0.006
0.053	0.023	0.022	0.028	0.036	0.023	0.027	<0.006	<0.006	---	mg/L	0.006
<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	---	mg/L	0.002
84.2	22.3	22.4	36.7	27.4	28.6	51.5	16.3	16.2	---	mg/L	0.05
7.3	7.3	7.4	7.4	7.6	7.7	6.8	7.2	7.2	---	pH	0.1
206	92	80	114	112	123	130	59.6	58.6	---	µS/cm	0.2
19	14	16	17	33	37	7	10	10	---	mg/L	5
<5	<5	<5	<5	<5	<5	<5	<5	<5	---	mg/L	5
<5	<5	<5	<5	<5	<5	<5	<5	<5	---	mg/L	5
16	12	13	14	27	30	6	9	8	---	mg/L	5
<0.005	<0.005	<0.005	<0.005	<0.005	0.007	0.007	<0.005	<0.005	---	mg/L	0.005
0.014	0.024	0.023	0.024	0.006	0.086	0.035	0.003	0.002	---	mg/L	0.001
0.7	1.2	1.2	1.2	0.9	1.4	1	0.8	0.6	---	mg/L	1
138	125	123	133	132	132	153	140	140	---	---	---
<0.0001	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0001	<0.0001	---	mg/L	0.0001
2.02	1.39	1.33	1.51	0.13	1.37	2.32	0.0398	0.0427	---	mg/L	0.0003
0.00127	0.0014	0.0014	0.0014	0.0025	0.0055	0.002	0.00318	0.00319	---	mg/L	0.00003
0.001	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.001	<0.001	---	mg/L	0.001
0.0366	0.0363	0.0343	0.0441	0.0361	0.0974	0.0606	0.00953	0.00963	---	mg/L	0.00005
0.0002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0002	<0.0002	---	mg/L	0.0002
<0.00003	0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00003	<0.00003	---	mg/L	0.00003
23	8.1	8.1	12.8	15.9	18.7	15.7	7.44	7.51	---	mg/L	0.02
0.00361	<0.0002	<0.0002	0.0008	0.0004	0.0004	0.0035	<0.00005	<0.00005	---	mg/L	0.00005
0.0063	0.0017	0.0016	0.0027	0.0006	0.002	0.0092	0.0006	0.0006	---	mg/L	0.0001
0.00047	0.0016	0.0015	0.0012	<0.0008	0.0017	0.0013	<0.00006	<0.00006	---	mg/L	0.00006
0.0208	0.004	0.004	0.009	0.002	0.005	0.044	0.0008	0.0008	---	mg/L	0.0006
0.78	1.42	1.45	1.36	0.179	1.6	1.55	0.024	0.026	---	mg/L	0.005
0.0059	<0.006	<0.006	<0.006	<0.006	<0.006	0.007	<0.0001	<0.0001	---	mg/L	0.0001
<0.00002	---	---	---	---			<0.00002	<0.00002	---	mg/L	0.00002
0.45	0.8	0.9	0.7	0.5	1	0.6	0.14	0.14	---	mg/L	0.02
5.96	3.6	3.7	4.3	2.2	3	3.4	0.55	0.552	---	mg/L	0.004
0.0861	0.049	0.051	0.059	0.015	0.041	0.106	0.0545	0.0549	---	mg/L	0.0001
0.00143	0.0004	0.0003	0.0007	0.0014	0.0014	0.0007	0.00105	0.00106	---	mg/L	0.00006
0.58	<1	<1	<1	<1	<1	<1	0.222	0.221	---	mg/L	0.005
0.0572	0.0052	0.0053	0.0184	0.0073	0.0085	0.0686	0.00293	0.00293	---	mg/L	0.00006
0.00009	0.0008	0.0009	0.0007	0.0001	0.0011	0.0004	<0.00005	<0.00005	---	mg/L	0.00005
0.00029	<0.0004	<0.0004	0.0005	<0.0004	0.0006	<0.0004	0.00036	0.00035	---	mg/L	0.00003
0.002	<0.0004	<0.0004	0.0006	0.0008	0.0007	0.0007	0.0002	0.0003	---	mg/L	0.0001
0.0876	0.03	0.0299	0.0517	0.0576	0.0598	0.0518	0.0145	0.0146	---	mg/L	0.0001
2.7	3.1	3.1	2.9	1.5	3.4	2.6	1.2	1.2	---	mg/L	0.1
<0.0001	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0001	<0.0001	---	mg/L	0.0004
---	0.09	0.091	0.075	<0.005	0.049	0.019	---	---	---	---	0.005
---	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	---	---	---	---	0.0001
0.00131	0.0005	0.0005	0.0007	0.0008	0.0009	0.001	0.00026	0.00026	---	mg/L	0.00005
0.00077	0.0032	0.0032	0.0029	0.0014	0.0048	0.0041	<0.00005	<0.00005	---	mg/L	0.00005
0.198	0.01	0.011	0.051	0.022	0.027	0.225	0.0028	0.0029	---	mg/L	0.0008
<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	---	mg/L	0.0001
0.0201	0.0467	0.0496	0.046	0.0166	0.0279	0.0144	0.0147	0.0144	---	mg/L	0.0003
0.00015	0.00032	0.00033	0.00023	0.00086	0.0012	0.00016	0.00205	0.00205	---	mg/L	0.00003
0.002	0.001	0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	---	mg/L	0.001
0.0335	0.0107	0.0106	0.0174	0.025	0.0325	0.0352	0.00909	0.00917	---	mg/L	0.00005
<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	---	mg/L	0.0002
<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	---	mg/L	0.00003
22.9	6.9	7.13	11.5	14	15.9	14	7.36	7.43	---	mg/L	0.02
0.00339	<0.00005	<0.00005	0.00074	0.00034	0.00018	0.00311	<0.00005	<0.00005	---	mg/L	0.00005
0.0061	0.0008	0.0008	0.0019	0.0004	0.0008	0.0082	0.0006	0.0006	---	mg/L	0.0001
0.00011	<0.00006	<0.00006	<0.00006	<0.00006	<0.00006	<0.00006	<0.00006	<0.00006	---	mg/L	0.00006
0.0037	0.0009	0.0008	0.0016	0.0008	0.0008	0.0126	<0.0006	0.0006	---	mg/L	0.0006
0.123	0.026	0.029	0.041	0.026	0.02	0.247	<0.005	<0.005	---	mg/L	0.005
0.006	0.0009	0.001	0.0024	0.0002	0.0003	0.0048	<0.0001	<0.0001	---	mg/L	
<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	---	mg/L	0.00002
0.43	0.29	0.3	0.34	0.38	0.45	0.41	0.13	0.13	---	mg/L	0.02
6.01	3.39	3.43	4.25	2.2	2.35	3.16	0.544	0.549	---	mg/L	0.004
0.0844	0.0209	0.0214	0.0333	0.0098	0.0168	0.0871	0.0515	0.0521	---	mg/L	0.0001
0.00134	0.00025	0.00024	0.0005	0.00111	0.00113	0.00038	0.00105	0.00103	---	mg/L	0.00006
0.595	0.358	0.358	0.428	0.278	0.318	0.294	0.234	0.235	---	mg/L	0.005
0.0561	0.00352	0.00361	0.0153	0.00575	0.00458	0.0617	0.00293	0.00295	---	mg/L	0.00006
<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	---	mg/L	0.00005
0.00023	0.00015	0.00023	0.00017	0.00025	0.00031	0.0002	0.00033	0.00032	---	mg/L	0.00003
0.002	0.0002	0.0002	0.0006	0.0008	0.0008	0.0007	0.0002	0.0003	---	mg/L	0.0001
0.0863	0.0216	0.0219	0.04	0.0465	0.0442	0.041	0.0146	0.0146	---	mg/L	0.0001
2.5	1.2	1.2	1.5	1.5	1.7	2	1.2	1.2	---	mg/L	
<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	---	mg/L	
<0.00005	0.00017	0.00018	0.00009	0.00056	0.00047	<0.00005	0.00019	0.00018	---	mg/L	0.00005
<0.00005	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	---	mg/L	0.00005
0.171	0.0053	0.0051	0.039	0.0201	0.0105	0.225	0.0039	0.0038	---	mg/L	0.0008

uidelines for the Protection of Freshwater Aquatic Life (July 2006).

pressed as mg/l(N).
xpressed as mg/l(N).

2006

er Blank	Travel Blank	Station 1	Station 2	Station 3	Station 3 Duplicate	Station 4	Station 5	Station 6	Station 7	Station 8	Station 8 Duplicate	Station 9	UNITS	Ultra L (Total and
---	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	mg/L	
---	---	---	---	---	---	---	---	---	---	---	---	---	mg/L	0.
---	<0.5	56.7	39.4	9.3	9.3	16.4	27.1	26.1	21.1	10.3	10.3	28.5	mg/L	0.
---	<0.5	1.1	0.9	0.5	<0.5	0.7	0.7	0.8	<0.5	<0.5	<0.5	0.8	mg/L	0.
---	<0.1	5.2	10	4.2	4	5.8	4	3.8	5.1	0.8	0.8	14.1	mg/L	0.
---	<1	2	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	mg/L	
---	Low EC	107	105	Low EC	Low EC	106	102	103	111	Low EC	Low EC	80.7	%	--
---	1	199	178	46	46	77	99	93	90	34	35	198	mg/L	--
---	<1	163	140	41	40	65	84	81	74	29	29	129	mg/L	--
---	---	---	---	---	---	---	---	---	---	---	---	---	mg/L	0.0
---	---	---	---	---	---	---	---	---	---	---	---	---	mg/L	0.0
---	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/L	0.0
---	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	mg/L	0.0
---	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	mg/L	0.
---	<0.5	104	118	24.6	24.4	45.4	44.9	39.1	64	18.4	18.5	155	mg/L	0.
---	5.5	8	7.3	7.5	7.5	7.5	7.9	7.9	6.8	7.3	7.3	4.4	pH	0.
---	1.2	314	275	84.6	84.6	134	169	160	159	64.6	64.3	313	µS/cm	0.
---	<5	61	14	16	16	18	45	47	<5	10	11	<5	mg/L	5
---	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	mg/L	5
---	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	mg/L	5
---	<5	50	12	13	13	15	37	39	<5	8	9	<5	mg/L	5
---	<0.005	0.005	0.016	0.006	0.006	0.007	0.007	0.007	0.013	<0.005	<0.005	0.034	mg/L	0.0
---	---	---	---	---	---	---	---	---	---	---	---	---	mg/L	0.0
---	<1	<1	<1	1	1	1	1	1	<1	<1	1	<1	mg/L	
---	---	---	---	---	---	---	---	---	---	---	---	---	---	--
---	<0.0001	<0.0001	<0.0001	<0.0004	<0.0004	<0.0004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	mg/L	0.0
---	<0.0003	0.351	4.13	1	1.09	1.46	0.0544	0.081	2.04	0.0504	0.052	5.33	mg/L	0.0
---	<0.00003	0.00143	0.00076	0.0007	0.0008	0.0007	0.00172	0.00137	0.00068	0.00308	0.0032	0.00047	mg/L	0.0
---	<0.001	0.007	0.003	<0.02	<0.02	<0.02	0.001	<0.001	<0.001	<0.001	<0.001	0.001	mg/L	0.0
---	<0.00005	0.0421	0.048	0.024	0.0246	0.0301	0.0428	0.045	0.041	0.00819	0.00847	0.0248	mg/L	0.0
---	<0.0002	<0.0002	0.0003	<0.001	<0.001	<0.001	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	0.0005	mg/L	0.0
---	---	---	---	<0.0001	<0.0001	<0.0001	---	---	---	---	---	---	mg/L	0.0
---	<0.02	59.4	36.9	7.2	7.4	12.5	25.2	22	16.8	8.1	8.23	20.9	mg/L	0.
---	<0.00005	0.0013	0.00623	<0.0002	<0.0002	0.0012	0.00051	0.00029	0.00432	<0.00005	<0.00005	0.0192	mg/L	0.0
---	<0.0001	0.0022	0.0113	0.0011	0.0012	0.003	0.0006	0.0018	0.0119	0.0005	0.0005	0.0261	mg/L	0.0
---	<0.00006	0.00017	0.0008	0.0011	0.0013	0.0008	0.00235	0.00025	0.0004	<0.00006	<0.00006	0.0014	mg/L	0.0
---	<0.0006	0.0038	0.0359	0.002	0.001	0.008	0.0012	0.0011	0.0459	0.001	0.001	0.0555	mg/L	0.0
---	<0.005	0.008	1.37	0.804	0.863	0.788	0.1	0.074	1	0.011	0.009	3.35	mg/L	0.0
---	---	---	---	---	---	---	---	---	---	---	---	---	mg/L	--
---	<0.00002	<0.00002	<0.00002	---	---	---	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	mg/L	0.0
---	<0.02	0.96	0.62	0.6	0.7	0.6	0.61	0.59	0.43	0.13	0.13	0.58	mg/L	0.
---	<0.004	4.88	9.12	3.2	3.3	4.3	3.79	2.94	3.81	0.536	0.558	9.67	mg/L	0.0
---	<0.0001	0.0512	0.145	0.032	0.034	0.045	0.0146	0.0271	0.137	0.0324	0.0334	0.429	mg/L	0.0
---	<0.00006	0.00474	0.0019	0.0003	0.0003	0.0006	0.00194	0.00144	0.00058	0.00116	0.00121	0.00034	mg/L	0.0
---	0.007	1.74	0.827	<1	<1	<1	0.424	0.359	0.305	0.217	0.224	0.191	mg/L	0.0
---	<0.00006	0.028	0.109	0.0038	0.0039	0.0245	0.00814	0.00732	0.0923	0.00262	0.00273	0.194	mg/L	0.0
---	<0.00005	<0.00005	<0.00005	0.0004	0.0005	0.0003	0.00065	<0.00005	<0.00005	0.00007	<0.00005	0.00012	mg/L	0.0
---	0.00016	0.00046	0.00027	<0.0004	<0.0004	<0.0004	0.00039	0.00036	0.00026	0.00038	0.00033	0.00012	mg/L	0.0
---	<0.0001	0.0035	0.003	0.0007	0.0006	0.001	0.0013	0.001	0.0009	0.0002	0.0003	0.0015	mg/L	0.0
---	<0.0001	0.178	0.165	0.031	0.0305	0.061	0.094	0.0653	0.0501	0.0157	0.0159	0.0891	mg/L	0.0
---	---	---	---	---	---	---	---	---	---	---	---	---	mg/L	--
---	---	---	---	<0.0004	<0.0004	<0.0004	---	---	---	---	---	---	mg/L	--
---	---	---	---	0.079	0.085	0.064	---	---	---	---	---	---	---	--
---	---	---	---	<0.0001	<0.0001	<0.0001	---	---	---	---	---	---	---	--
---	<0.00005	0.00319	0.00219	0.0003	0.0004	0.0006	0.0014	0.00083	0.00104	0.00033	0.00033	0.00225	mg/L	0.0
---	<0.00005	0.00187	0.00206	0.0022	0.0024	0.0019	0.00101	0.00018	0.00166	<0.00005	<0.00005	0.00287	mg/L	0.0
---	<0.0008	0.111	0.376	0.007	0.007	0.063	0.0224	0.0154	0.335	0.0028	0.0028	0.742	mg/L	0.0
---	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	mg/L	0.0
---	<0.0003	0.0378	0.0161	0.0373	0.037	0.0392	0.0202	0.0285	0.0192	0.0297	0.0305	5.16	mg/L	0.0
---	<0.00003	0.00099	0.00014	0.00024	0.00027	0.00021	0.00101	0.00106	0.00019	0.00257	0.00247	0.0001	mg/L	0.0
---	<0.001	0.007	0.003	0.002	0.002	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	mg/L	0.0
---	0.0001	0.0414	0.0479	0.0116	0.0115	0.0205	0.0427	0.0425	0.0397	0.00847	0.00844	0.0256	mg/L	0.0
---	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0005	mg/L	0.0
---	---	---	---	---	---	---	---	---	---	---	---	---	---	--
---	<0.02	55.2	34.9	8.46	8.51	15.5	25.1	22.1	16.8	8.2	8.19	22	mg/L	0.
---	<0.00005	0.00123	0.00606	<0.00005	<0.00005	0.00118	0.00038	0.00024	0.00431	<0.00005	<0.00005	0.0199	mg/L	0.0
---	<0.0001	0.0021	0.0108	0.0007	0.0007	0.0026	0.0005	0.0017	0.0117	0.0005	0.0005	0.0274	mg/L	0.0
---	<0.00006	0.00014	0.00009	0.00038	<0.00006	0.00073	0.00042	0.00024	<0.00006	<0.00006	<0.00006	0.00007	mg/L	0.0
---	0.003	0.0017	0.0057	0.0006	0.0007	0.0018	0.0007	0.0008	0.0205	0.0008	0.0018	0.0572	mg/L	0.0
---	<0.005	<0.005	0.21	0.022	0.022	0.03	0.036	0.012	0.175	<0.005	<0.005	0.758	mg/L	0.0
---	---	---	---	---	---	---	---	---	---	---	---	---	---	--
---	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	mg/L	0.0
---	<0.02	0.87	0.57	0.37	0.37	0.43	0.58	0.57	0.41	0.12	0.13	0.61	mg/L	0.
---	<0.004	4.51	8.47	3.71	3.72	5.21	3.65	2.9	3.84	0.545	0.55	10.1	mg/L	0.0
---	<0.0001	0.046	0.139	0.0234	0.023	0.044	0.0136	0.0253	0.132	0.0304	0.0299	0.438	mg/L	0.0
---	<0.00006	0.00466	0.00146	0.0003	0.00029	0.00056	0.00191	0.00143	0.00033	0.0012	0.00119	<0.00006	mg/L	0.0
---	<0.005	1.6	0.787	0.429	0.426	0.539	0.423	0.369	0.317	0.224	0.226	0.205	mg/L	0.0
---	<0.00006	0.027	0.107	0.00331	0.0032	0.023	0.00796	0.00699	0.0907	0.00284	0.00305	0.202	mg/L	0.0
---	0.00011	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.00007	mg/L	0.0
---	0.00022	0.0004	0.00025	0.00017	0.00015	0.00029	0.00044	0.00033	0.00024	0.00042	0.00041	0.00015	mg/L	0.0
---	<0.0001	0.0035	0.0028	<0.0001	0.0001	0.0008	0.0014	0.001	0.0008	0.0002	0.0002	0.0015	mg/L	0.0
---	<0.0001	0.173	0.159	0.0272	0.0272	0.0551	0.0922	0.0641	0.0505	0.016	0.0157	0.093	mg/L	0.0
---	---	---	---	---	---	---	---	---	---	---	---	---	---	--
---	---	---	---	---	---	---	---	---	---	---	---	---	---	--
---	<0.00005	0.00191	<0.00005	0.0002	0.00019	<0.00005	0.00129	0.00074	0.00008	0.00026	0.00025	0.00209	mg/L	0.0
---	<0.00005	0.00182	0.00094	0.00084	0.00082	0.00075	0.0007	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	mg/L	0.0
---	<0.0008	0.0851	0.319	0.0059	0.0056	0.0647	0.0219	0.0156	0.327	0.0039	0.007	0.792	mg/L	0.0

uidelines for the Protection of Freshwater Aquatic Life (July 2006).

s expressed as mg/l(N).
lts expressed as mg/l(N).
results expressed as mg/l(N).

Major Ions, Nutrients and Inorganics											
<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	mg/L	
---	---	---	---	---	---	---	---	---	---	mg/L	
47	18.8	16.9	28	38.4	33.1	25.1	11.7	10.3	32.9	mg/L	
0.8	0.5	0.4	0.1	0.9	0.9	0.6	0.2	0.1	1	mg/L	
11.9	8.8	8	10.1	5.4	5	5.9	0.8	0.8	17.5	mg/L	
1	<1	<1	2	<1	<1	<1	<1	<1	<1	mg/L	
114	109	98.2	111	108	110	111	Low EC	Low EC	84.3	%	
199	93	90	132	133	114	105	38	36	229	mg/L	
166	83	75	112	118	103	87	33	29	154	mg/L	
---	---	---	---	---	---	---	---	---	---	mg/L	
---	---	---	---	---	---	---	---	---	---	mg/L	
0.042	<0.006	<0.006	0.02	0.023	0.008	0.031	<0.006	<0.006	0.053	mg/L	
0.042	<0.006	<0.006	0.02	0.023	0.008	0.031	<0.006	<0.006	0.053	mg/L	
<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	mg/L	
132	48.8	48.8	76.9	58.6	47.4	69.5	20	20	177	mg/L	
7.3	7.7	7.7	7.7	8	8	7.1	7.3	7.3	4.3	pH	
334	171	171	234	232	203	189	74.8	74.8	400	µS/cm	
13	32	32	30	60	56	8	9	10	<5	mg/L	
<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	mg/L	
<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	mg/L	
10	27	26	24	49	46	6	8	8	<5	mg/L	
<0.005	<0.005	<0.005	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	0.041	mg/L	
---	---	---	---	---	---	---	---	---	---	mg/L	
<1	1	1	1	<1	1	<1	<1	<1	<1	mg/L	
---	---	---	---	---	---	---	---	---	---	---	
Total Ultra-Low Level Metals											
<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	mg/L	
5.01	0.157	0.155	1.58	0.0301	0.102	1.92	0.0376	0.0445	8.08	mg/L	
0.00073	0.00044	0.00043	0.00047	0.00098	0.00106	0.00069	0.00361	0.00366	0.00078	mg/L	
0.004	0.005	0.004	0.005	<0.001	0.001	0.001	<0.001	<0.001	0.002	mg/L	
0.0543	0.0253	0.0253	0.0355	0.0498	0.056	0.0516	0.0113	0.0114	0.0311	mg/L	
0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	0.0006	mg/L	
---	---	---	---	---	---	---	---	---	---	---	
39.8	16.2	16.3	24	32.3	28.2	21.2	9.99	9.9	26.2	mg/L	
0.0075	<0.00005	<0.00005	0.00234	0.00046	0.00029	0.00516	0.00006	0.00007	0.0307	mg/L	
0.0149	0.001	0.001	0.005	0.0004	0.0027	0.0126	0.0006	0.0006	0.0424	mg/L	
0.00122	0.00046	0.00037	0.00065	0.00039	0.0004	0.00097	<0.00006	<0.00006	0.0036	mg/L	
0.0434	0.0011	0.0011	0.0135	0.0008	0.0012	0.0381	0.0009	0.001	0.0793	mg/L	
1.73	0.241	0.242	0.666	0.102	0.099	1.45	0.007	0.018	5.53	mg/L	
---	---	---	---	---	---	---	---	---	---	---	
<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	mg/L	
0.66	0.45	0.44	0.5	0.75	0.75	0.51	0.16	0.16	0.79	mg/L	
10.5	7.96	7.82	8.75	4.75	4.3	5.11	0.778	0.78	14.8	mg/L	
0.144	0.0331	0.0328	0.0662	0.0113	0.0272	0.138	0.0354	0.0369	0.568	mg/L	
0.00187	0.00025	0.00026	0.00077	0.0018	0.00146	0.00062	0.00146	0.00145	0.00045	mg/L	
0.946	0.712	0.708	0.746	0.54	0.479	0.416	0.312	0.312	0.301	mg/L	
0.126	0.0054	0.00534	0.0415	0.01	0.0093	0.101	0.00379	0.00386	0.271	mg/L	
<0.00005	0.00007	0.00007	0.00007	<0.00005	0.00007	0.00015	<0.00005	<0.00005	0.00011	mg/L	
0.00047	0.00021	0.00034	0.00029	0.00036	0.00025	0.00029	0.00053	0.00058	0.00038	mg/L	
0.0035	0.0002	0.0003	0.0013	0.0015	0.0011	0.001	0.0003	0.0003	0.0022	mg/L	
0.147	0.0501	0.0504	0.087	0.097	0.0813	0.0635	0.0203	0.0202	0.104	mg/L	
---	---	---	---	---	---	---	---	---	---	---	
---	---	---	---	---	---	---	---	---	---	---	
---	---	---	---	---	---	---	---	---	---	---	
---	---	---	---	---	---	---	---	---	---	---	
0.00244	0.00045	0.00045	0.00101	0.00195	0.00116	0.00098	0.00041	0.00043	0.00234	mg/L	
0.00187	0.00031	0.00031	0.00073	0.00011	0.00025	0.00268	<0.00005	<0.00005	0.00695	mg/L	
0.396	0.0068	0.0064	0.124	0.0239	0.0154	0.367	0.0044	0.0038	0.929	mg/L	
Dissolved Ultra-Low Level Metals											
<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	mg/L	
0.0175	0.026	0.0257	0.0265	0.0104	0.0366	0.0131	0.0241	0.0242	7.82	mg/L	
0.00015	0.00028	0.00026	0.00019	0.00064	0.00076	0.00018	0.00336	0.00325	0.00013	mg/L	
0.006	0.004	0.005	0.005	0.001	0.001	0.002	0.001	0.001	0.002	mg/L	
0.0513	0.0234	0.0234	0.0348	0.0499	0.0547	0.0511	0.0115	0.0113	0.0309	mg/L	
<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0007	mg/L	
---	---	---	---	---	---	---	---	---	---	---	
40.4	16.2	16.4	24.6	32.6	28.4	21.2	10.4	10.1	26.5	mg/L	
0.00728	<0.00005	<0.00005	0.00223	0.00035	0.00023	0.00506	0.00006	0.00006	0.0308	mg/L	
0.0131	0.0009	0.0009	0.0049	0.0004	0.0027	0.0125	0.0006	0.0006	0.0428	mg/L	
0.00027	0.00034	0.00028	0.00026	0.00044	0.00041	0.00013	<0.00006	<0.00006	0.0012	mg/L	
0.0061	0.0007	0.0007	0.0023	0.0009	0.0007	0.0075	0.0008	0.0007	0.079	mg/L	
0.273	0.015	0.015	0.046	0.045	0.008	0.241	<0.005	<0.005	1.3	mg/L	
---	---	---	---	---	---	---	---	---	---	---	
<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	mg/L	
0.66	0.39	0.39	0.48	0.74	0.72	0.51	0.18	0.17	0.79	mg/L	
11.6	7.98	7.89	8.89	4.78	4.32	5.11	0.785	0.79	14.7	mg/L	
0.138	0.0303	0.0304	0.0655	0.011	0.0268	0.135	0.0343	0.0341	0.566	mg/L	
0.00132	0.00027	0.00027	0.00068	0.0018	0.00149	0.00036	0.00148	0.0015	<0.00006	mg/L	
1.06	0.718	0.718	0.865	0.557	0.495	0.425	0.326	0.325	0.325	mg/L	
0.121	0.00527	0.00527	0.0417	0.0102	0.00926	0.0997	0.00379	0.00384	0.273	mg/L	
0.00032	0.00006	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.0001	0.00029	mg/L	
0.00047	0.00017	0.00021	0.00032	0.00047	0.00028	0.00034	0.00046	0.0007	0.00032	mg/L	
0.0031	0.0003	0.0003	0.0013	0.0015	0.0011	0.0009	0.0003	0.0003	0.0023	mg/L	
0.144	0.0496	0.0503	0.0898	0.0955	0.0816	0.0634	0.0208	0.0207	0.104	mg/L	
---	---	---	---	---	---	---	---	---	---	---	
---	---	---	---	---	---	---	---	---	---	---	
<0.00005	0.0004	0.0004	0.00005	0.00186	0.00108	<0.00005	0.00021	0.00027	0.00227	mg/L	
<0.00005	<0.00005	<0.00005	<0.00005	0.00006	0.00008	<0.00005	<0.00005	<0.00005	<0.00005	mg/L	
0.344	0.0066	0.0068	0.104	0.0248	0.0151	0.347	0.0056		0.921	mg/L	

lines for the Protection of Freshwater Aquatic Life (July 2006).

ssed as mg/l(N).

essed as mg/l(N).

The range presented here for Ammonia is specific to the range of pH of the water at MacTung and the temperature of the water recorded at each sampling event.

TABLE 8. MACTUNG 2006 WATER QUALITY SAMPLING PROGRAM ANALYTICAL RESULTS AVERAGES

pH (pH)

Trip	Station 1	Station 2	Station 3	Station 4	Station 5	Station 6	Station 7	Station 8	Station 9	Trip Average
15-17 June	7.8	7.5	7.5	7.5	7.5	8.0	7.4	---	---	7.6
8-9 July	7.7	7.3	7.3	7.4	7.6	7.7	6.8	7.2	---	7.4
5-6 August	8.0	7.3	7.5	7.5	7.9	7.9	6.8	7.3	4.4	7.2
20 September	8.0	7.3	7.7	7.7	8.0	8.0	7.1	7.3	4.3	7.3
Station Average	7.9	7.4	7.5	7.5	7.8	7.9	7.0	7.3	4.4	7.3

Conductivity (µS/cm)

Trip	Station 1	Station 2	Station 3	Station 4	Station 5	Station 6	Station 7	Station 8	Station 9	Trip Average
15-17 June	156.0	173.0	83.8	115.0	72.9	134.0	58.7	---	---	113.3
8-9 July	174.0	206.0	92.0	114.0	112.0	123.0	130.0	59.6	---	126.3
5-6 August	314.0	275.0	84.6	134.0	169.0	160.0	159.0	64.6	313.0	185.9
20 September	414.0	334.0	171.0	234.0	232.0	203.0	189.0	74.8	400.0	250.2
Station Average	264.5	247.0	107.9	149.3	146.5	155.0	134.2	66.3	356.5	173.6

Ammonia-N(mg/L)

Trip	Station 1	Station 2	Station 3	Station 4	Station 5	Station 6	Station 7	Station 8	Station 9	Trip Average
15-17 June	0.006	**0.005**	**0.005**	**0.005**	**0.005**	0.134	0.052	---	---	0.030
8-9 July	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	0.007	0.007	**0.005**	---	0.006
5-6 August	0.005	0.016	0.006	0.007	0.007	0.007	0.013	**0.005**	0.034	0.011
20 September	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	0.041	0.009
Station Average	0.005	0.008	0.005	0.006	0.006	0.038	0.019	0.005	0.038	0.013

Nitrate-N (mg/L)

Trip	Station 1	Station 2	Station 3	Station 4	Station 5	Station 6	Station 7	Station 8	Station 9	Trip Average
15-17 June	0.060	0.072	0.027	0.041	0.026	0.036	0.015	---	---	0.040
8-9 July	0.050	0.053	0.023	0.028	0.036	0.023	0.027	**0.006**	---	0.031
5-6 August	**0.100**	**0.100**	**0.100**	**0.100**	**0.100**	**0.100**	**0.100**	**0.100**	**0.100**	0.100
20 September	0.026	0.042	0.006	0.020	0.023	0.008	0.031	**0.006**	0.053	0.024
Station Average	0.059	0.067	0.039	0.047	0.046	0.042	0.043	0.037	0.077	0.050

Total Organic Carbon (mg/L)

Trip	Station 1	Station 2	Station 3	Station 4	Station 5	Station 6	Station 7	Station 8	Station 9	Trip Average
15-17 June	1	1	1	2	2	8	3	---	---	2.6
8-9 July	1	1	1	1	1	1	1	1	---	1.0
5-6 August	**1**	**1**	1	1	1	1	**1**	**1**	**1**	1.0
20 September	**1**	**1**	1	1	**1**	1	**1**	**1**	**1**	1.0
Station Average	1.0	0.9	1.1	1.3	1.2	2.9	1.5	0.9	1.0	1.3

Phosphorous (mg/L)

Trip	Station 1	Station 2	Station 3	Station 4	Station 5	Station 6	Station 7	Station 8	Station 9	Trip Average
15-17 June	0.043	0.052	0.026	0.040	0.017	13.500	0.652	---	---	2.047
8-9 July	0.023	0.014	0.024	0.024	0.006	0.086	0.035	0.003	---	0.027
5-6 August	---	---	---	---	---	---	---	---	---	---
20 September	---	---	---	---	---	---	---	---	---	---
Station Average	0.033	0.033	0.025	0.032	0.012	6.793	0.344	0.003	---	0.970

Calcium (mg/L)

Trip	Station 1	Station 2	Station 3	Station 4	Station 5	Station 6	Station 7	Station 8	Station 9	Trip Average
15-17 June	25.1	22.8	9.2	13.8	11.0	22.1	8.4	---	---	16.1
8-9 July	27.6	28.0	8.3	13.0	18.3	18.9	16.2	8.7	---	17.4
5-6 August	56.7	39.4	9.3	16.4	27.1	26.1	21.1	10.3	28.5	26.1
20 September	75.6	47.0	18.8	28.0	38.4	33.1	25.1	11.7	32.9	34.5
Station Average	46.3	34.3	11.4	17.8	23.7	25.1	17.7	10.2	30.7	24.1

Potassium (mg/L)

Trip	Station 1	Station 2	Station 3	Station 4	Station 5	Station 6	Station 7	Station 8	Station 9	Trip Average
15-17 June	0.6	0.4	0.4	0.5	0.3	1.3	0.6	---	---	0.6
8-9 July	0.6	0.5	0.5	0.5	0.5	0.7	0.6	0.3	---	0.5
5-6 August	1.1	0.9	0.5	0.7	0.7	0.8	**0.5**	**0.5**	0.8	0.7
20 September	1.3	0.8	0.5	0.1	0.9	0.9	0.6	0.2	1.0	0.7
Station Average	0.9	0.7	0.5	0.5	0.6	0.9	0.6	0.3	0.9	0.6

Magnesium (mg/L)

Trip	Station 1	Station 2	Station 3	Station 4	Station 5	Station 6	Station 7	Station 8	Station 9	Trip Average
15-17 June	2.1	5.4	3.8	4.5	1.5	1.3	1.3	---	---	2.8
8-9 July	2.1	6.6	3.2	4.0	2.5	2.2	3.1	0.4	---	3.0
5-6 August	5.2	10.0	4.2	5.8	4.0	3.8	5.1	0.8	14.1	5.9
20 September	6.3	11.9	8.8	10.1	5.4	5.0	5.9	0.8	17.5	8.0
Station Average	3.9	8.5	5.0	6.1	3.4	3.1	3.9	0.7	15.8	5.1

Sodium (mg/L)

Trip	Station 1	Station 2	Station 3	Station 4	Station 5	Station 6	Station 7	Station 8	Station 9	Trip Average
15-17 June	**1**	**1**	**1**	**1**	**1**	**1**	**1**	---	---	1.0
8-9 July	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	---	1.0
5-6 August	2	1	**1**	**1**	**1**	**1**	**1**	**1**	**1**	1.1
20 September	2	1	**1**	2	**1**	**1**	**1**	**1**	**1**	1.2
Station Average	1.5	1.0	1.0	1.3	1.0	1.0	1.0	1.0	1.0	1.1

Note: Bolded figures indicate that the detection limit value was used to calculate the average value as the analytical value was below detection.

7.1 PHYSICAL PARAMETERS

Physical parameters analysed include pH, and electrical conductivity.

7.1.1 pH

The pH values of the water samples collected during the 2006 sampling program ranged from 4.3 to 8.0, with a combined average for all water samples collected of 7.3. The overall pH of the water quality samples analysed was slightly alkaline with pH values slightly above 7.0 (neutral) for most sites. The exception to this occurred at Station WQ9 with an average pH of 4.4, which is likely a result of natural acid rock drainage that is a common condition in the upper Tsichu drainage (AMAX 1983). The average pH was 7.9 at Station WQ1, 7.4 at Station WQ2, 7.5 at Station WQ3, 7.5 at Station WQ4, 7.8 at Station WQ5, 7.9 at Station WQ6, 7.0 at Station WQ7, 7.3 at Station WQ8 and 4.4 at Station WQ9. Monthly average pH values for all stations combined were 7.6 for June, 7.4 for July, 7.2 for August and 7.3 for September (Table 8).

All values were considered to be representative of background conditions and normal for mountain rivers in this region. The average pH at stations WQ5 and WQ8 in 2006 were comparable to the 1973 – 1981 reported pH values for similar locations (Dale Creek and Cirque Creek, respectively) (AMAX 1983; CSMRI 1976).

7.1.2 Conductivity

The electrical conductivity (EC) of the water samples collected during the 2006 was generally elevated. Average conductivity for all nine stations combined was 173.61 micro-siemens per centimetre (µS/cm). Average EC ranged from a low of 58.7 µS/cm at Station WQ7 in June to a high of 414 µS/cm at Station WQ1 in September. The average EC at Station WQ1 was 264.5 µS/cm, Station WQ2 was 247.0 µS/cm, 107.8 µS/cm at Station WQ3, 149.2 µS/cm at Station WQ4, 146.5 µS/cm at Station WQ5, 155.0 µS/cm at Station WQ6, 134.2 µS/cm at Station WQ7 66.3 µS/cm at Station WQ8 and 356.5 µS/cm at Station WQ9. Sampling event averages for all stations combined were 113.3 µS/cm for June, 126.3 µS/cm for July, 185.9 µS/cm for August and 250.2 µS/cm September, demonstrating a seasonal trend (Table 8).

There are no CCME FAL guidelines for electrical conductivity. The average electrical conductivity for stations WQ5 and WQ8 in 2006 were comparable to the 1973 – 1981 reported electrical conductivity values for similar locations (Dale Creek and Cirque Creek, respectively) (AMAX 1983; CSMRI 1976).

7.2 NUTRIENTS

Nutrients analyzed include ammonia, nitrate and phosphorous.

7.2.1 Ammonia-N

The average ammonia-N (total ammonia) concentration for all water samples collected during the 2006 sampling program was 0.013 mg/L. Ammonia concentrations ranged from below detection (0.005 mg/L) to 0.134 mg/L. The average ammonia concentration was 0.005 mg/L at Station WQ1, Station WQ2 was 0.008 mg/L, 0.005 mg/L at Station WQ3, 0.006 mg/L at Station WQ4, 0.006 mg/L at Station WQ5, 0.038 mg/L at Station WQ6, 0.019 mg/L at Station WQ7, 0.005 mg/L at Station WQ8 and 0.038 mg/L at Station WQ9. Sampling event averages for all stations combined were 0.030 mg/L in June, 0.006 mg/L in July, 0.011 mg/L in August, and 0.009 mg/L in September (Table 8).

The CCME FAL guideline for ammonia-N (total ammonia) is pH and temperature dependent. The CCME FAL ammonia guidelines presented in Tables 4 through 7 were determined based on site-specific pH and water temperatures for each sampling event. Overall, the average ammonia concentrations observed during the 2006 sampling program were within CCME FAL guideline values. Compared to the 1973 – 1981 ammonia values reported for similar locations (Dale Creek and Cirque Creek, respectively), ammonia levels at stations WQ5 and WQ8 were slightly higher, but still within guidelines (AMAX 1983; CSMRI 1976).

7.2.2 Nitrate

The average nitrate concentration for all water samples collected during the 2006 sampling program was 0.050 mg/L. Nitrate concentrations ranged from below the laboratory detection limit of 0.006 mg/L to below the laboratory detection limit of 0.1 mg/L (analysis conducted by ALS of the August samples had a detection limit considerably lower than the other three analyses). The average nitrate concentration at Station WQ1 was 0.059 mg/L, Station WQ2 was 0.067 mg/L, 0.039 mg/L at Station WQ3, 0.047 mg/L at Station WQ4, 0.046 mg/L at Station WQ5, 0.042 mg/L at Station WQ6, 0.043 mg/L at Station WQ7, 0.037 mg/L at Station WQ8, and 0.077 mg/L at Station WQ9 (Table 8).

The average nitrate concentration for all samples combined was within the CCME FAL guideline of 2.94 mg/L. Compared to the 1973 – 1981 reported nitrate values for similar locations (Dale Creek and Cirque Creek, respectively), nitrate concentrations at stations WQ5 and WQ8 were very low or below contemporary detection limits, but exceeded the detection limits used in 1973 – 1981 (AMAX 1983; CSMRI 1976).

7.2.3 Total Phosphorous

The average phosphorous concentration for all water samples collected during the 2006 sampling program combined was 0.970 mg/L. Phosphorous concentrations ranged from below the laboratory detection limit of 0.003 to 13.5 mg/L. The average phosphorous concentration at Station WQ1 was 0.033 mg/L, Station WQ2 was 0.033 mg/L, 0.025 mg/L at Station WQ3, 0.032 mg/L at Station WQ4, 0.012 mg/L at Station WQ5, 0.793 mg/L at Station WQ6, 0.344 mg/L at Station WQ7 and 0.003 mg/L at Station WQ8. Sampling event averages for all stations combined were 2.047 mg/L in June and 0.027 mg/L in July

(Table 8). Due to a laboratory error the August and September water samples were not analyzed for phosphorous.

There are no CCME FAL guidelines for phosphorous. Phosphorous concentrations at stations WQ5 and WQ8 were comparable to the 1973 – 1981 reported phosphorous values for similar locations (Dale Creek and Cirque Creek, respectively), falling within or below the reported 1973 – 1981 ranges (AMAX 1983; CSMRI 1976).

7.3 MAJOR IONS

Major ions included in the MacTung water-sampling regime were calcium, potassium, magnesium and sodium. There are no CCME FAL guidelines for these parameters.

The calcium concentrations found in the samples collected during the 2006 sampling program exhibited a seasonal trend, whereby concentrations increased over the spring, summer and fall. The average calcium value for all water samples combined was 24.1 mg/L, with a range of 8.3 mg/L to 75.6 mg/L. The average calcium concentration at Station WQ1 was 46.3 mg/L, 34.3 mg/L at Station WQ2, 11.4 mg/L at Station WQ3, 17.8 mg/L at Station WQ4, 23.7 mg/L at Station WQ5, 25.1 mg/L at Station WQ6, 17.7 mg/L at Station WQ7, 10.2 mg/L at Station WQ8 and 30.7 mg/L at Station WQ9. The average calcium concentration for all stations combined for each sampling event was 16.1 mg/L for June, 17.4 mg/L for July, 26.1 mg/L for August, and 34.5 mg/L for September (Table 8).

Potassium concentrations remained consistent throughout the season, with slight increases at several stations. The average potassium concentration for all stations combined was 0.6 mg/L and ranged from below detection (0.5 mg/L) to 1.3 mg/L. The average potassium concentration at Station WQ1 was 0.9 mg/L, 0.7 mg/L at Station WQ2, 0.5 mg/L at Station WQ3, 0.5 mg/L at Station WQ4, 0.6 mg/L at Station WQ5, 0.9 mg/L at Station WQ6, 0.6 mg/L at Station WQ7, 0.3 mg/L at Station WQ8 and 0.9 mg/L at Station WQ9. The average potassium concentration for all stations combined for each sampling event was 0.6 mg/L for June, 0.5 mg/L for July, 0.7 mg/L for August, and 0.7 mg/L for September (Table 8).

Magnesium concentrations exhibited a seasonal trend, whereby concentrations increased over the season. The average magnesium value was 5.1 mg/L, with a range of 1.3 mg/L to 17.9 mg/L. The average magnesium concentration at Station WQ1 was 3.9 mg/L, 8.5 mg/L at Station WQ2, 5.0 mg/L at Station WQ3, 6.1 mg/L at Station WQ4, 3.4 mg/L at Station WQ5, 3.1 mg/L at Station WQ6, 3.9 mg/L at Station WQ7, 0.7 mg/L at Station WQ8, and 15.8 at Station WQ9. The average magnesium concentration for all stations combined for each sampling event was 2.8 mg/L for June, 3.0 mg/L for July, 5.9 mg/L for August and 8.0 mg/L for September (Table 8).

Sodium remained consistent throughout the season and exhibited an average concentration of 1.1 mg/L, and ranged from below detection (1 mg/L) to 2 mg/L. The average sodium concentration at Station WQ1 was 1.5 mg/L, 1.0 mg/L at Station WQ2, 1.0 mg/L at Station WQ3, 1.3 mg/L at Station WQ4, 1.0 mg/L at Station WQ5, 1.0 mg/L at Station

WQ6, 1.0 mg/L at Station WQ7, 1.0 mg/L at Station WQ8, and 1.0 mg/L at Station WQ9. The June sampling event exhibited an average sodium concentration of 1.0 mg/L, the July sampling event, 1.0 mg/L, the August sampling event, 1.1 mg/L and the September sampling event, 1.2 mg/L (Table 8).

There are no historic values reported for calcium, potassium, magnesium or sodium (AMAX 1983; CSMRI 1976).

7.4 TOTAL ORGANIC CARBON

The average total organic carbon (TOC) concentration of the samples collected during the 2006 sampling program was 1.3 mg/L, and ranged from below detection (1 mg/L) to 8.0 mg/L. The average TOC concentration at station WQ1 was 1.0 mg/L, 0.9 mg/L at Station WQ2, 1.1 mg/L at Station WQ3, 1.3 mg/L at Station WQ4, 1.2 mg/L at Station WQ5, 2.9 mg/L at Station WQ6, 1.5 mg/L at Station WQ7, 0.9 mg/L at Station WQ8, and 1.0 mg/L at Station WQ9. Sampling event averages were 2.6 mg/L for June, 1.0 mg/L for July, 1.0 mg/L for August, and 1.0 mg/L for September (Table 8).

There is no CCME FAL guideline for TOC. There are no historic values reported for TOC (AMAX 1983; CSMRI 1976).

7.5 TRACE METALS

Laboratory results for total and dissolved metals ranged from below laboratory detection limits to above the CCME FAL guideline for aluminum, cadmium, chromium, copper, iron, lead, nickel selenium and zinc. Table 9 presents a summary of the metals below laboratory detection limits, above detection limits but within CCME FAL guidelines, and those exceeding CCME FAL guidelines.

TABLE 9: METALS ANALYSES COMPARISON

Metals Below Detection Limits	Metals Above Detection Limit but Below CCME FAL*	Above Detection Limit and Above CCME FAL*
Mercury	Antimony	Aluminum
Silver	Arsenic	Arsenic**
	Barium	Cadmium
	Beryllium	Chromium
	Bismuth	Copper
	Boron	Iron
	Calcium	Lead
	Cobalt	Nickel
	Magnesium	Selenium
	Manganese	Zinc
	Molybdenum	

TABLE 9: METALS ANALYSES COMPARISON		
Metals Below Detection Limits	**Metals Above Detection Limit but Below CCME FAL***	**Above Detection Limit and Above CCME FAL***
	Potassium	
	Sodium	
	Silicon	
	Silver	
	Strontium	
	Tin	
	Uranium	
	Vanadium	

*Canadian Council of Ministers of the Environment – Canadian Water Quality Guidelines for the Protection of Freshwater Aquatic Life (Updated July 2006)

**All arsenic values were within CCME Guidelines with the exception of one exceedance. This single value was still within the range that AMAX reported in 1973 – 1981.

Aluminum concentrations in the samples collected during the 2006 sampling program were elevated and consistently exceeded CCME guidelines for both total and dissolved metal analyses. These exceedances occurred at all stations and for all sampling events. Aluminum was not reported by AMAX (1983), or by CSMRI (1976). The elevated level of aluminum is likely indicative of background levels and is due to elevated levels of suspended aluminum from spring run-off in this mineral-rich area.

Cadmium had consistent exceedances for both total and dissolved metal analyses. These exceedances occurred consistently at all stations and for all sampling events, with the exception of Station WQ3, which did not exhibit any cadmium exceedances throughout the season. To a large extent, the 2006 exceedances were below values reported by AMAX (1983) or by CSMRI (1976) and/or detection limits used in these earlier years.

Chromium exceedances only occurred for total metal analyses. Chromium values exhibited a declining seasonal trend and as such, exceedances became fewer as the season progressed. The 2006 values were comparable to, and in some cases lower than, chromium values reported by AMAX (1983)

Copper exceedances occurred primarily in the total metal analyses, with only a few exceedances at the dissolved level. Copper values exhibited a declining seasonal trend and as such, exceedances became fewer as the season progressed. The 2006 values were comparable to, and in some cases lower than, copper values reported by AMAX (1983).

Iron exceedances occurred primarily in the total metal analyses, with only a few exceedances at the dissolved level. Iron values were very high in June and declined in value and number of exceedances as the season progressed. The 2006 values were comparable to, and in some cases lower than, iron values reported by AMAX (1983) or by CSMRI (1976).

Lead exceeded CCME FAL guidelines for total metals only at stations WQ6 and WQ7 in June and Station WQ6 in July. Most of the 2006 lead values fell below values reported by AMAX (1983) or by CSMRI (1976).

Nickel did not appear to follow a seasonal trend. Exceedances occurred consistently throughout the season for both total and dissolved metals but only at certain stations (WQ1, WQ2, WQ4, WQ5 and WQ9). Most of the 2006 nickel values were comparable to values reported by AMAX (1983) or by CSMRI (1976).

Selenium exceeded CCME guidelines for both total and dissolved metal analyses. Selenium exceedances appeared to exhibit a seasonal trend at stations WQ1, WQ2, WQ4, WQ5 and WQ9. The 2006 values were comparable to, and in some cases lower than, selenium values reported by AMAX for (1983).

Zinc exceedances occurred for both total and dissolved metal analyses at stations WQ1, WQ2, WQ4, WQ5 and WQ9. Zinc values were elevated in June and declined in value (and in number of exceedances) over the season. The 2006 values were comparable to, and in some cases lower than, zinc values reported by AMAX (1983) or by CSMRI (1976).

Generally stations WQ3, WQ5, WQ6 and WQ8 had lower metals concentrations. Station WQ3 on the Hess River is upstream of the confluence of Tributary A (and Tributary C) which drains mineral rich areas. These higher trace metal concentrations are seen at stations WQ1, WQ2 and WQ4.

Station WQ9 also had the same pattern of exceedances, which may be a result of glacio-fluvial material, through which the water flows. Station WQ7, on the west side of Macmillan Pass (NWT) had the same exceedances as the east side of Macmillan Pass (YK) (stations WQ1, WQ2 and WQ4), which may also be the result of the surrounding surficial material. Station WQ6 in the Tsichu River experienced a number of exceedances but only during spring freshet.

8.0 CONCLUSION

The MacTung property is located in an area of high mineralization with large mineral deposits below and at the surface, which was observed to be influencing surface water quality in the area. Underground springs seep into waterways at various locations, exposing surface water to minerals. During freshet in June, bank erosion caused by large volumes of run-off, as well as fines as a result of surface run-off from mountain slopes, contribute to sediment loading, increasing turbidity. Elevated metal concentrations are often correlated with higher turbidity occurring during freshet. With the exception of aluminum, cadmium, and nickel, parameter exceedances generally declined over the course of the season, water volumes declined, and turbidity decreased.

In some cases, it was difficult to compare water quality results of the 2006 sampling program with historic data (AMAX 1983; CSMRI 1976). Laboratory standards and procedures are considerably more rigorous today than in the past. Consequently, some of the CCME FAL exceedances observed in the 2006 sampling program were below detection levels used by AMAX (1983).

Overall, the baseline investigation has shown that the water quality of the project area is typical of a mountainous, mineral-rich area, with parameter exceedances mostly associated with freshet. The elevated parameter concentrations appear to be the result of natural conditions with no anthropogenic influences.

9.0 CLOSURE

EBA is pleased to present North American Tungsten Corporation Ltd. with this 2006 Water Quality report for the MacTung Project. The survey objective was to supplement historic surface water quality information for streams draining the Project area for Project planning and future regulatory submissions leading to MacTung Project approvals and implementation. We are confident that the data and associated information obtained will assist in supporting this objective.

Respectfully submitted,
EBA Engineering Consultants Ltd.

Prepared by:

Krista Amey, M.Sc.
Intermediate Environmental Scientist

Catherine Galbrand, M.Sc., R.P.Bio.
Environmental Scientist

Reviewed by:

Steve Moore, B.E.S., B.A..
Wildlife Biologist /
Senior Environmental Scientist

Richard Hoos, M.Sc., R.P.Bio.
Principal Consultant

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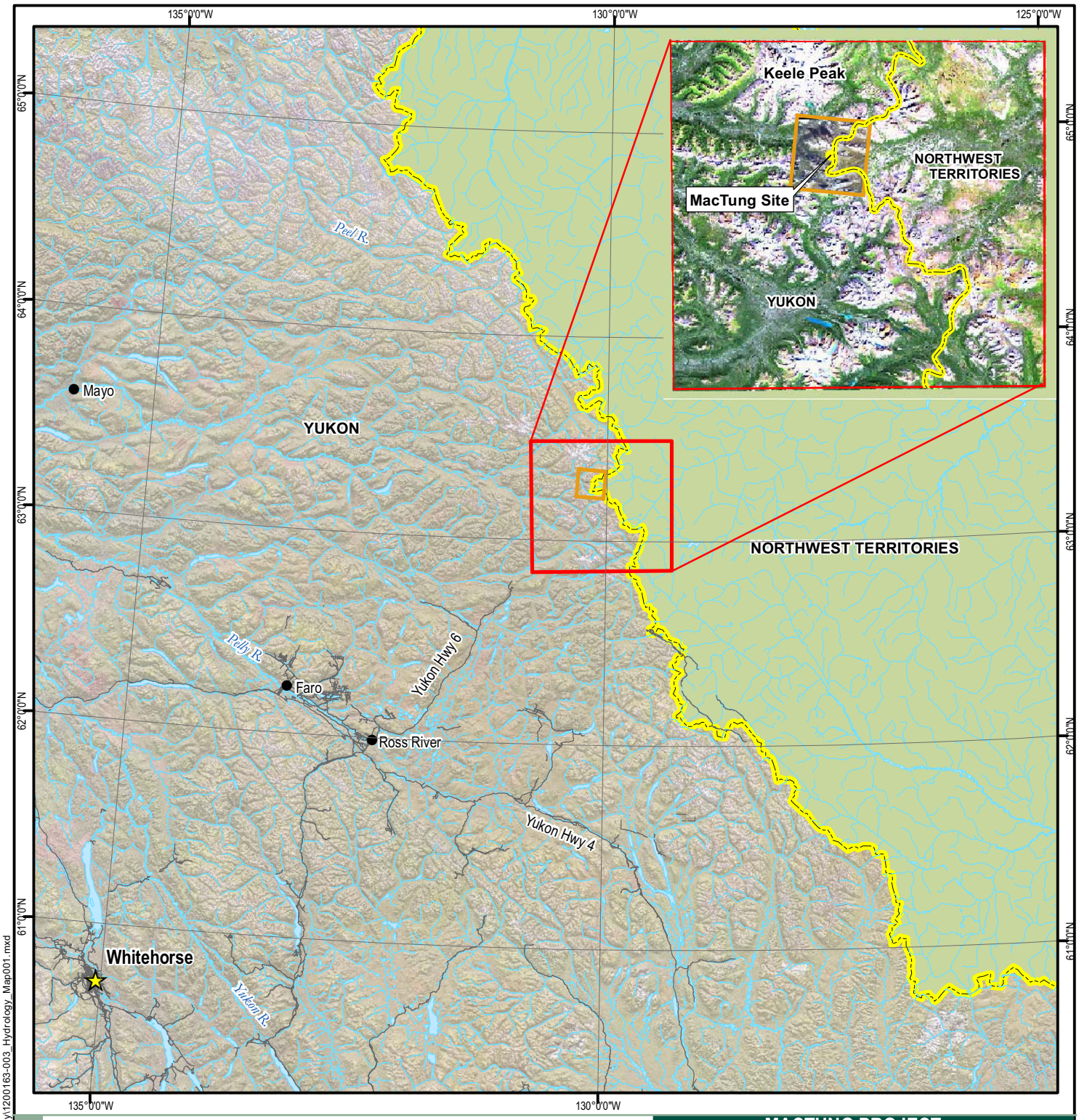
FIGURES



LEGEND

- Provincial / Territorial Boundary
- Local Study Area
- Watercourse
- Waterbody
- Roads

N
W E
S

NOTES Landsat TM imagery Earthsat acquired Sept,17, 1995
Bands 432 enhanced

MACTUNG PROJECT
2006 ENVIRONMENTAL BASELINE STUDIES
WATER QUALITY SAMPLING PROGRAM

Project Area

PROJECTION	DATUM
UTM Zone 9	NAD83

Scale: 1:3,000,000
0 12.5 25 50 75 100
Kilometres

FILE NO.
1200163-003_Hydrology_Map001.mxd

PROJECT NO.	DWN	CKD	REV
1200163.003	BGP	CG	0

OFFICE	DATE
EBA-VANC	April 3, 2007

EBA Engineering Consultants Ltd.

Figure 1

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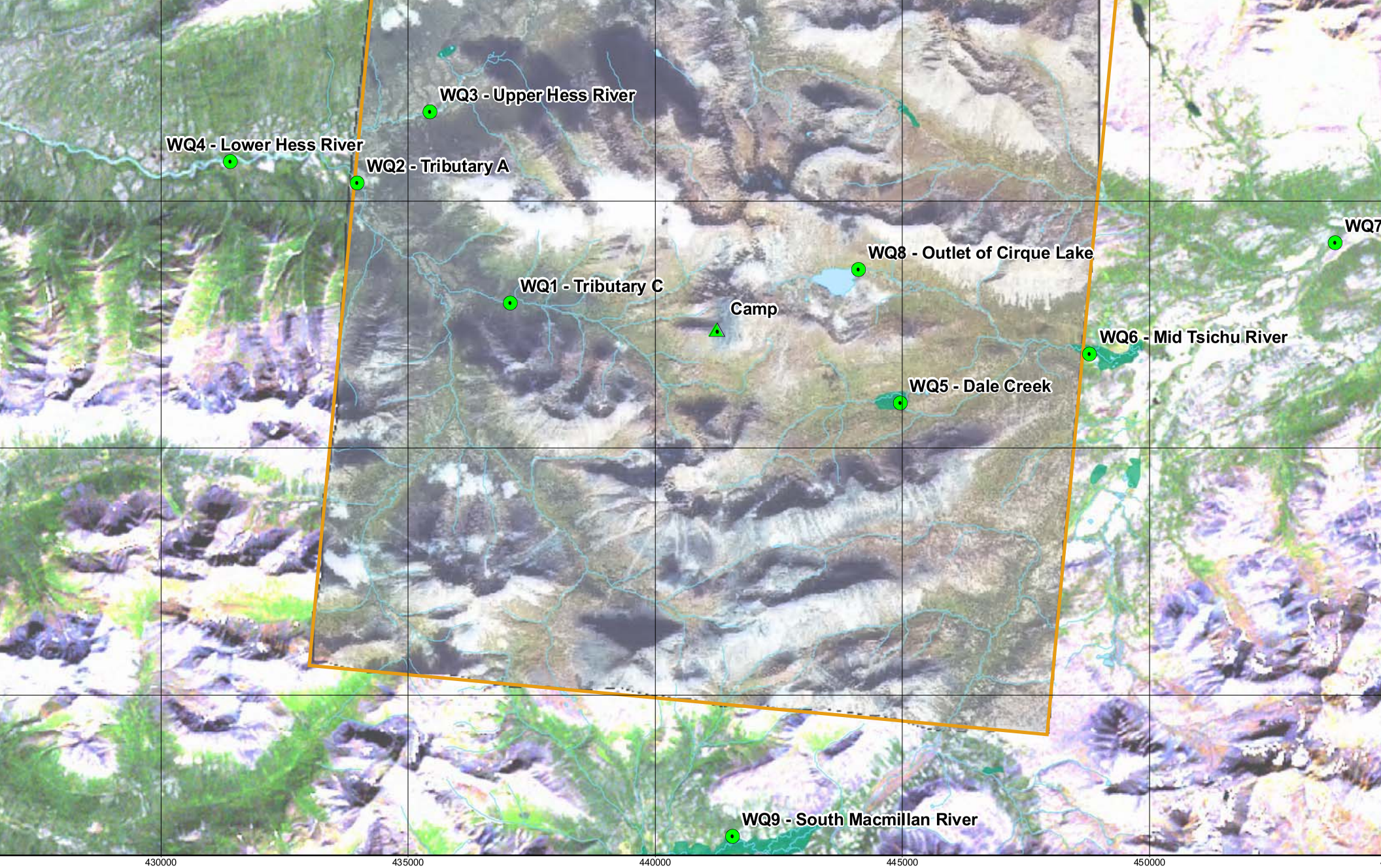
WQ3 - Upper Hess River
WQ4 - Lower Hess River
WQ2 - Tributary A
WQ8 - Outlet of Cirque Lake
WQ1 - Tributary C
Camp
WQ6 - Mid Tsichu River
WQ5 - Dale Creek
WQ9 - South Macmillan River
430000
435000
440000
445000
450000

PHOTOGRAPHS

Photo 1
Station WQ1 - Tributary C of the Hess River

Photo 2
Station WQ2 - Tributary A of the Hess River

Photo 3
Station WQ3 - Hess River Upstream of Confluence with Tributary A

Photo 4
Station WQ4 - Hess River Downstream of Confluence with Tributary A

Photo 5
Station WQ5 - Dale Creek

Photo 6
Station WQ6 - Mid Tsichu River

Photo 7
Station WQ7 - Lower Tsichu River

Photo 8
Station WQ8 - Cirque Lake

Photo 9
Station WQ9 - South Macmillan River

APPENDIX

APPENDIX A LABORATORY RESULTS AND QUALITY ASSURANCE AND QUALITY CONTROL

ALS Laboratory Group
A Division of ETL Chemspec Analytical Limited
Toll Free1-800-668-9878
9936-67 Avenue, Edmonton, AB T6E 0P5
Phone: +1 780 413 5227 Fax: +1 780 437 2311 www.alsglobal.com

ALS LABORATORY GROUP ANALYTICAL CONFIRMATION SHEET

Company:	EBA ENG CONSULTANTS LTD
ATTN:	STEVE MOORE
Fax Number:	867-873-3324
Project Manager:	CATHERINE EVARISTO-CORDERO
Job Reference:	201-1200163.001
Project P.O. #:	
Date Sampled:	15-JUN-06
Date Received:	20-JUN-06
Estimated Completion Date:	04-JUL-06
Sampled By:	SM/KL/JM/NJ
Workorder #:	**L401711**
Chain of Custody #:	128064 246999

Sample #/SampleID/SampledBy/DateDue: L401711-1/STATION 1 MACTUNG/SM/KL/JM/NJ/04-JUL-06

Matrix	Product Description	Product Due*
Water	Ammonia-N	
Water	Routine Water Analysis - Low Level	
	Chloride (Cl)	
	ICP metals for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
	Sulfate (SO4)	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	
	Ultra-Low Metals	
	Major Metals	
	Metal Setup (Ultra-Low ICPMS)	
Water	Phosphorus, Total	
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	
	Ultra-Low Metals - Dissolved	
	Major Metals - Dissolved	
	Metal Setup (Ultra-Low ICPMS)	

Sample #/SampleID/SampledBy/DateDue: L401711-2/STATION 1 DUP MACTUNG/SM/KL/JM/NJ/04-JUL-06

Matrix	Product Description	Product Due*
Water	Ammonia-N	
Water	Routine Water Analysis - Low Level	
	Chloride (Cl)	
	ICP metals for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
	Sulfate (SO4)	
Water	Total Organic Carbon	
	Ultra-Low Metals	

Water	
	Ultra-Low Metals
	Major Metals
	Metal Setup (Ultra-Low ICPMS)
Water	Phosphorus, Total
Misc.	Handling/Disposal Fee
Water	Ultra-Low Metals - Dissolved
	Ultra-Low Metals - Dissolved
	Major Metals - Dissolved
	Metal Setup (Ultra-Low ICPMS)

Sample #/SampleID/SampledBy/DateDue: L401711-3/STATION 2 MACTUNG/SM/KL/JM/NJ/04-JUL-06

Matrix	Product Description	Product Due*
Water	Ammonia-N	
Water	Routine Water Analysis - Low Level	
	Chloride (Cl)	
	ICP metals for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
	Sulfate (SO4)	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	
	Ultra-Low Metals	
	Major Metals	
	Metal Setup (Ultra-Low ICPMS)	
Water	Phosphorus, Total	
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	
	Ultra-Low Metals - Dissolved	
	Major Metals - Dissolved	
	Metal Setup (Ultra-Low ICPMS)	

Sample #/SampleID/SampledBy/DateDue: L401711-4/STATION 3 MACTUNG/SM/KL/JM/NJ/04-JUL-06

Matrix	Product Description	Product Due*
Water	Ammonia-N	
Water	Routine Water Analysis - Low Level	
	Chloride (Cl)	
	ICP metals for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
	Sulfate (SO4)	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	
	Ultra-Low Metals	
	Major Metals	
	Metal Setup (Ultra-Low ICPMS)	
Water	Phosphorus, Total	
Misc.	Handling/Disposal Fee	

Water	Ultra-Low Metals - Dissolved
	Ultra-Low Metals - Dissolved
	Major Metals - Dissolved
	Metal Setup (Ultra-Low ICPMS)

Sample #/SampleID/SampledBy/DateDue: L401711-5/STATION 4 MACTUNG/SM/KL/JM/NJ/04-JUL-06

Matrix	Product Description	Product Due*
Water	Ammonia-N	
Water	Routine Water Analysis - Low Level	
	Chloride (Cl)	
	ICP metals for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
	Sulfate (SO4)	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	
	Ultra-Low Metals	
	Major Metals	
	Metal Setup (Ultra-Low ICPMS)	
Water	Phosphorus, Total	
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	
	Ultra-Low Metals - Dissolved	
	Major Metals - Dissolved	
	Metal Setup (Ultra-Low ICPMS)	

Sample #/SampleID/SampledBy/DateDue: L401711-6/STATION 5 MACTUNG/SM/KL/JM/NJ/04-JUL-06

Matrix	Product Description	Product Due*
Water	Ammonia-N	
Water	Routine Water Analysis - Low Level	
	Chloride (Cl)	
	ICP metals for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
	Sulfate (SO4)	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	
	Ultra-Low Metals	
	Major Metals	
	Metal Setup (Ultra-Low ICPMS)	
Water	Phosphorus, Total	
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	
	Ultra-Low Metals - Dissolved	
	Major Metals - Dissolved	
	Metal Setup (Ultra-Low ICPMS)	

Sample #/SampleID/SampledBy/DateDue: L401711-7/STATION 6 MACTUNG/SM/KL/JM/NJ/04-JUL-06

Matrix	Product Description	Product Due*
Water	Ammonia-N	
Water	Routine Water Analysis - Low Level	
	Chloride (Cl)	
	ICP metals for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
	Sulfate (SO4)	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	
	Ultra-Low Metals	
	Major Metals	
	Metal Setup (Ultra-Low ICPMS)	
Water	Phosphorus, Total	
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	
	Ultra-Low Metals - Dissolved	
	Major Metals - Dissolved	
	Metal Setup (Ultra-Low ICPMS)	

Sample #/SampleID/SampledBy/DateDue: L401711-8/STATION 7 MACTUNG/SM/KL/JM/NJ/04-JUL-06

Matrix	Product Description	Product Due*
Water	Ammonia-N	
Water	Routine Water Analysis - Low Level	
	Chloride (Cl)	
	ICP metals for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
	Sulfate (SO4)	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	
	Ultra-Low Metals	
	Major Metals	
	Metal Setup (Ultra-Low ICPMS)	
Water	Phosphorus, Total	
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	
	Ultra-Low Metals - Dissolved	
	Major Metals - Dissolved	
	Metal Setup (Ultra-Low ICPMS)	

Sample #/SampleID/SampledBy/DateDue: L401711-9/FIELD BLANK/SM/KL/JM/NJ/04-JUL-06

Matrix	Product Description	Product Due*
Water	Ammonia-N	
Water	Routine Water Analysis - Low Level	
	Chloride (Cl)	
	ICP metals for routine water	

	Ion Balance Calculation
	Nitrate+Nitrite-N
	Nitrite-N
	Nitrate-N
	pH, Conductivity and Total Alkalinity
	Sulfate (SO4)
Water	Total Organic Carbon
Water	Ultra-Low Metals
	Ultra-Low Metals
	Major Metals
	Metal Setup (Ultra-Low ICPMS)
Water	Phosphorus, Total
Misc.	Handling/Disposal Fee
Water	Ultra-Low Metals - Dissolved
	Ultra-Low Metals - Dissolved
	Major Metals - Dissolved
	Metal Setup (Ultra-Low ICPMS)

Sample #/SampleID/SampledBy/DateDue: L401711-10/TRIP BLANK MACTUNG/SM/KL/JM/NJ/04-JUL-06

Matrix	Product Description	Product Due*
Water	Ammonia-N	
Water	Routine Water Analysis - Low Level	
	Chloride (Cl)	
	ICP metals for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
	Sulfate (SO4)	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	
	Ultra-Low Metals	
	Major Metals	
	Metal Setup (Ultra-Low ICPMS)	
Water	Phosphorus, Total	
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	
	Ultra-Low Metals - Dissolved	
	Major Metals - Dissolved	
	Metal Setup (Ultra-Low ICPMS)	

Sample #/SampleID/SampledBy/DateDue: L401711-11/FILTER BLANK MACTUNG/SM/JM/NJ/KL/04-JUL-06

Matrix	Product Description	Product Due*
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	
	Ultra-Low Metals - Dissolved	
	Major Metals - Dissolved	
	Metal Setup (Ultra-Low ICPMS)	

* INDICATES ESTIMATED COMPLETION DATE OF REQUESTED PRODUCT IF DIFFERENT THAN THE ESTIMATED COMPLETION DATE.

ALS Laboratory Group strives to deliver on-time results to our clients at all times. However, there are times when, due to capacity issues or other unforeseen circumstances, we are unable to meet our expected TATs. The information above is related to a recent workorder you have submitted to our laboratory. We have also included a summary on the parameters of interest for this workorder. In the event that you have an inquiry, please refer to the Work Order # (L+6 digits) when calling the Project Manager.

PRELIMINARY RESULTS

EBA ENG CONSULTANTS LTD
ATTN: STEVE MOORE
Reported On: 21-JUL-06 06:56 PM

201-4916 49 STREET

YELLOWKNIFE NT X1A 2P7

Lab Work Order #: **L401711** **Date Received:** **20-JUN-06**

Project P.O. #:
Job Reference: 201-1200163.001
Legal Site Desc:
CofC Numbers: 128064, 246999

Other Information:

Comments: Samples L401711-1 thru L401711-8; Total metals analysis was changed from Ultra low level to low level, because they had too many suspended solids. L401711-7 and L401711-8; Dissolved metal analysis was changed from Ultra low level to extractable metals, because the samples were preserved but not filtered. L401711-7; Analysis for P-Total was changed from low-level to regular level analysis.

ROY JONES
General Manager

For any questions about this report please contact your Account Manager:

CATHERINE EVARISTO-CORDERO

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L401711-1 STATION 1 MACTUNG								
Sampled By: SM/KL/JM/NJ on 15-JUN-06								
Matrix: WATER								
Total Metals								
Total Major Metals								
Calcium (Ca)	24.9		0.5	mg/L		28-JUN-06	HAS	R414259
Potassium (K)	0.8		0.1	mg/L		28-JUN-06	HAS	R414259
Magnesium (Mg)	2.4		0.1	mg/L		28-JUN-06	HAS	R414259
Sodium (Na)	<1		1	mg/L		28-JUN-06	HAS	R414259
Iron (Fe)	0.846		0.005	mg/L		28-JUN-06	HAS	R414259
Manganese (Mn)	0.113		0.001	mg/L		28-JUN-06	HAS	R414259
Total Trace Metals (Low Level)								
Silver (Ag)	<0.0004		0.0004	mg/L		28-JUN-06	QLI	R414261
Aluminum (Al)	1.24		0.02	mg/L		28-JUN-06	QLI	R414261
Arsenic (As)	0.0036		0.0004	mg/L		28-JUN-06	QLI	R414261
Boron (B)	<0.02		0.02	mg/L		28-JUN-06	QLI	R414261
Barium (Ba)	0.134		0.0002	mg/L		28-JUN-06	QLI	R414261
Beryllium (Be)	<0.001		0.001	mg/L		28-JUN-06	QLI	R414261
Bismuth (Bi)	<0.0001		0.0001	mg/L		28-JUN-06	QLI	R414261
Cadmium (Cd)	0.0011		0.0002	mg/L		28-JUN-06	QLI	R414261
Cobalt (Co)	0.0051		0.0002	mg/L		28-JUN-06	QLI	R414261
Chromium (Cr)	0.0017		0.0008	mg/L		28-JUN-06	QLI	R414261
Copper (Cu)	0.012		0.001	mg/L		28-JUN-06	QLI	R414261
Molybdenum (Mo)	0.0032		0.0001	mg/L		28-JUN-06	QLI	R414261
Nickel (Ni)	0.0265		0.0002	mg/L		28-JUN-06	QLI	R414261
Lead (Pb)	0.0008		0.0001	mg/L		28-JUN-06	QLI	R414261
Antimony (Sb)	0.0008		0.0004	mg/L		28-JUN-06	QLI	R414261
Selenium (Se)	0.0023		0.0004	mg/L		28-JUN-06	QLI	R414261
Tin (Sn)	<0.0004		0.0004	mg/L		28-JUN-06	QLI	R414261
Strontium (Sr)	0.0869		0.0002	mg/L		28-JUN-06	QLI	R414261
Titanium (Ti)	0.025		0.005	mg/L		28-JUN-06	QLI	R414261
Thallium (Tl)	<0.0001		0.0001	mg/L		28-JUN-06	QLI	R414261
Uranium (U)	0.0022		0.0001	mg/L		28-JUN-06	QLI	R414261
Vanadium (V)	0.0120		0.0002	mg/L		28-JUN-06	QLI	R414261
Zinc (Zn)	0.129		0.004	mg/L		28-JUN-06	QLI	R414261
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.007		0.005	mg/L		21-JUL-06	SYF	R422347
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		18-JUL-06	CLL	R421692
Aluminum (Al)	0.0994		0.0003	mg/L		18-JUL-06	CLL	R421692
Arsenic (As)	0.00123		0.00003	mg/L		18-JUL-06	CLL	R421692
Boron (B)	0.003		0.001	mg/L		18-JUL-06	CLL	R421692
Barium (Ba)	0.0269		0.00005	mg/L		18-JUL-06	CLL	R421692
Beryllium (Be)	<0.0002		0.0002	mg/L		18-JUL-06	CLL	R421692
Calcium (Ca)	22.3		0.02	mg/L		18-JUL-06	CLL	R421692
Cadmium (Cd)	0.00064		0.00005	mg/L		18-JUL-06	CLL	R421692
Cobalt (Co)	0.0016		0.0001	mg/L		18-JUL-06	CLL	R421692
Chromium (Cr)	<0.00006		0.00006	mg/L		18-JUL-06	CLL	R421692
Copper (Cu)	0.0019		0.0006	mg/L		18-JUL-06	CLL	R421692
Mercury (Hg)	<0.00002		0.00002	mg/L		18-JUL-06	CLL	R421692
Potassium (K)	0.60		0.02	mg/L		18-JUL-06	CLL	R421692
Magnesium (Mg)	1.99		0.004	mg/L		18-JUL-06	CLL	R421692
Manganese (Mn)	0.0391		0.0001	mg/L		18-JUL-06	CLL	R421692
Molybdenum (Mo)	0.00266		0.00006	mg/L		18-JUL-06	CLL	R421692
Sodium (Na)	0.661		0.005	mg/L		18-JUL-06	CLL	R421692
Nickel (Ni)	0.0136		0.00006	mg/L		18-JUL-06	CLL	R421692

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L401711-1 STATION 1 MACTUNG								
Sampled By: SM/KL/JM/NJ on 15-JUN-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals - Dissolved								
Lead (Pb)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Antimony (Sb)	0.00070		0.00003	mg/L		18-JUL-06	CLL	R421692
Selenium (Se)	0.0020		0.0001	mg/L		18-JUL-06	CLL	R421692
Strontium (Sr)	0.0686		0.0001	mg/L		18-JUL-06	CLL	R421692
Uranium (U)	0.00079		0.00005	mg/L		18-JUL-06	CLL	R421692
Vanadium (V)	0.00077		0.00005	mg/L		18-JUL-06	CLL	R421692
Zinc (Zn)	0.0486		0.0008	mg/L		18-JUL-06	CLL	R421692
Ammonia-N	0.006		0.005	mg/L		26-JUN-06	KMY	R413258
Phosphorus, Total	0.043		0.001	mg/L		29-JUN-06	SHC	R414679
Total Organic Carbon	1		1	mg/L		22-JUN-06	TL	R412024
Routine Water Analysis - Low Level								
Chloride (Cl)	<1		1	mg/L		22-JUN-06	WYA	R412079
ICP metals for routine water								
Calcium (Ca)	25.1		0.5	mg/L		22-JUN-06	MLH	R412424
Potassium (K)	0.6		0.1	mg/L		22-JUN-06	MLH	R412424
Magnesium (Mg)	2.1		0.1	mg/L		22-JUN-06	MLH	R412424
Sodium (Na)	<1		1	mg/L		22-JUN-06	MLH	R412424
Ion Balance Calculation								
Ion Balance	101			%		23-JUN-06		
TDS (Calculated)	87			mg/L		23-JUN-06		
Hardness (as CaCO3)	71			mg/L		23-JUN-06		
Nitrate+Nitrite-N	0.060		0.006	mg/L		21-JUN-06	KMY	R411915
Nitrate-N	0.060		0.006	mg/L		21-JUN-06	KMY	R411915
Nitrite-N	<0.002		0.002	mg/L		21-JUN-06	KMY	R411915
Sulphate (SO4)	43.0		0.05	mg/L		22-JUN-06	JTV	R412438
pH, Conductivity and Total Alkalinity								
pH	7.8		0.1	pH		22-JUN-06	JPA	R412639
Conductivity (EC)	156		0.2	uS/cm		22-JUN-06	JPA	R412639
Bicarbonate (HCO3)	32		5	mg/L		22-JUN-06	JPA	R412639
Carbonate (CO3)	<5		5	mg/L		22-JUN-06	JPA	R412639
Hydroxide (OH)	<5		5	mg/L		22-JUN-06	JPA	R412639
Alkalinity, Total (as CaCO3)	27		5	mg/L		22-JUN-06	JPA	R412639
L401711-2 STATION 1 DUP MACTUNG								
Sampled By: SM/KL/JM/NJ on 15-JUN-06								
Matrix: WATER								
Total Metals								
Total Major Metals								
Calcium (Ca)	24.2		0.5	mg/L		28-JUN-06	HAS	R414259
Potassium (K)	0.8		0.1	mg/L		28-JUN-06	HAS	R414259
Magnesium (Mg)	2.3		0.1	mg/L		28-JUN-06	HAS	R414259
Sodium (Na)	<1		1	mg/L		28-JUN-06	HAS	R414259
Iron (Fe)	0.608		0.005	mg/L		28-JUN-06	HAS	R414259
Manganese (Mn)	0.107		0.001	mg/L		28-JUN-06	HAS	R414259
Total Trace Metals (Low Level)								
Silver (Ag)	<0.0004		0.0004	mg/L		28-JUN-06	QLI	R414261
Aluminum (Al)	1.02		0.02	mg/L		28-JUN-06	QLI	R414261
Arsenic (As)	0.0030		0.0004	mg/L		28-JUN-06	QLI	R414261
Boron (B)	<0.02		0.02	mg/L		28-JUN-06	QLI	R414261
Barium (Ba)	0.0979		0.0002	mg/L		28-JUN-06	QLI	R414261

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L401711-2 STATION 1 DUP MACTUNG								
Sampled By: SM/KL/JM/NJ on 15-JUN-06								
Matrix: WATER								
Total Metals								
Total Trace Metals (Low Level)								
Beryllium (Be)	<0.001		0.001	mg/L		28-JUN-06	QLI	R414261
Bismuth (Bi)	<0.0001		0.0001	mg/L		28-JUN-06	QLI	R414261
Cadmium (Cd)	0.0010		0.0002	mg/L		28-JUN-06	QLI	R414261
Cobalt (Co)	0.0045		0.0002	mg/L		28-JUN-06	QLI	R414261
Chromium (Cr)	0.0014		0.0008	mg/L		28-JUN-06	QLI	R414261
Copper (Cu)	0.010		0.001	mg/L		28-JUN-06	QLI	R414261
Molybdenum (Mo)	0.0031		0.0001	mg/L		28-JUN-06	QLI	R414261
Nickel (Ni)	0.0227		0.0002	mg/L		28-JUN-06	QLI	R414261
Lead (Pb)	0.0006		0.0001	mg/L		28-JUN-06	QLI	R414261
Antimony (Sb)	0.0007		0.0004	mg/L		28-JUN-06	QLI	R414261
Selenium (Se)	0.0028		0.0004	mg/L		28-JUN-06	QLI	R414261
Tin (Sn)	<0.0004		0.0004	mg/L		28-JUN-06	QLI	R414261
Strontium (Sr)	0.0829		0.0002	mg/L		28-JUN-06	QLI	R414261
Titanium (Ti)	0.017		0.005	mg/L		28-JUN-06	QLI	R414261
Thallium (Tl)	<0.0001		0.0001	mg/L		28-JUN-06	QLI	R414261
Uranium (U)	0.0020		0.0001	mg/L		28-JUN-06	QLI	R414261
Vanadium (V)	0.0088		0.0002	mg/L		28-JUN-06	QLI	R414261
Zinc (Zn)	0.113		0.004	mg/L		28-JUN-06	QLI	R414261
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.005		0.005	mg/L		21-JUL-06	SYF	R422347
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		18-JUL-06	CLL	R421692
Aluminum (Al)	0.0952		0.0003	mg/L		18-JUL-06	CLL	R421692
Arsenic (As)	0.00117		0.00003	mg/L		18-JUL-06	CLL	R421692
Boron (B)	0.002		0.001	mg/L		18-JUL-06	CLL	R421692
Barium (Ba)	0.0265		0.00005	mg/L		18-JUL-06	CLL	R421692
Beryllium (Be)	<0.0002		0.0002	mg/L		18-JUL-06	CLL	R421692
Calcium (Ca)	21.4		0.02	mg/L		18-JUL-06	CLL	R421692
Cadmium (Cd)	0.00065		0.00005	mg/L		18-JUL-06	CLL	R421692
Cobalt (Co)	0.0015		0.0001	mg/L		18-JUL-06	CLL	R421692
Chromium (Cr)	<0.00006		0.00006	mg/L		18-JUL-06	CLL	R421692
Copper (Cu)	0.0019		0.0006	mg/L		18-JUL-06	CLL	R421692
Mercury (Hg)	<0.00002		0.00002	mg/L		18-JUL-06	CLL	R421692
Potassium (K)	0.57		0.02	mg/L		18-JUL-06	CLL	R421692
Magnesium (Mg)	1.93		0.004	mg/L		18-JUL-06	CLL	R421692
Manganese (Mn)	0.0380		0.0001	mg/L		18-JUL-06	CLL	R421692
Molybdenum (Mo)	0.00256		0.00006	mg/L		18-JUL-06	CLL	R421692
Sodium (Na)	0.626		0.005	mg/L		18-JUL-06	CLL	R421692
Nickel (Ni)	0.0131		0.00006	mg/L		18-JUL-06	CLL	R421692
Lead (Pb)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Antimony (Sb)	0.00046		0.00003	mg/L		18-JUL-06	CLL	R421692
Selenium (Se)	0.0020		0.0001	mg/L		18-JUL-06	CLL	R421692
Strontium (Sr)	0.0671		0.0001	mg/L		18-JUL-06	CLL	R421692
Uranium (U)	0.00072		0.00005	mg/L		18-JUL-06	CLL	R421692
Vanadium (V)	0.00068		0.00005	mg/L		18-JUL-06	CLL	R421692
Zinc (Zn)	0.0489		0.0008	mg/L		18-JUL-06	CLL	R421692
Ammonia-N	<0.005		0.005	mg/L		26-JUN-06	KMY	R413258
Phosphorus, Total	0.037		0.001	mg/L		29-JUN-06	SHC	R414679
Total Organic Carbon	1		1	mg/L		22-JUN-06	TL	R412024

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L401711-2 STATION 1 DUP MACTUNG								
Sampled By: SM/KL/JM/NJ on 15-JUN-06								
Matrix: WATER								
Routine Water Analysis - Low Level								
Chloride (Cl)	<1		1	mg/L		22-JUN-06	WYA	R412079
ICP metals for routine water								
Calcium (Ca)	25.6		0.5	mg/L		22-JUN-06	MLH	R412424
Potassium (K)	0.6		0.1	mg/L		22-JUN-06	MLH	R412424
Magnesium (Mg)	2.1		0.1	mg/L		22-JUN-06	MLH	R412424
Sodium (Na)	<1		1	mg/L		22-JUN-06	MLH	R412424
Ion Balance Calculation								
Ion Balance	102			%		23-JUN-06		
TDS (Calculated)	88			mg/L		23-JUN-06		
Hardness (as CaCO3)	73			mg/L		23-JUN-06		
Nitrate+Nitrite-N	0.062		0.006	mg/L		21-JUN-06	KMY	R411915
Nitrate-N	0.062		0.006	mg/L		21-JUN-06	KMY	R411915
Nitrite-N	<0.002		0.002	mg/L		21-JUN-06	KMY	R411915
Sulphate (SO4)	43.1		0.05	mg/L		22-JUN-06	JTV	R412438
pH, Conductivity and Total Alkalinity								
pH	7.8		0.1	pH		22-JUN-06	JPA	R412639
Conductivity (EC)	157		0.2	uS/cm		22-JUN-06	JPA	R412639
Bicarbonate (HCO3)	33		5	mg/L		22-JUN-06	JPA	R412639
Carbonate (CO3)	<5		5	mg/L		22-JUN-06	JPA	R412639
Hydroxide (OH)	<5		5	mg/L		22-JUN-06	JPA	R412639
Alkalinity, Total (as CaCO3)	27		5	mg/L		22-JUN-06	JPA	R412639
L401711-3 STATION 2 MACTUNG								
Sampled By: SM/KL/JM/NJ on 15-JUN-06								
Matrix: WATER								
Total Metals								
Total Major Metals								
Calcium (Ca)	25.3		0.5	mg/L		28-JUN-06	HAS	R414259
Potassium (K)	0.8		0.1	mg/L		28-JUN-06	HAS	R414259
Magnesium (Mg)	5.5		0.1	mg/L		28-JUN-06	HAS	R414259
Sodium (Na)	<1		1	mg/L		28-JUN-06	HAS	R414259
Iron (Fe)	2.00		0.005	mg/L		28-JUN-06	HAS	R414259
Manganese (Mn)	0.116		0.001	mg/L		28-JUN-06	HAS	R414259
Total Trace Metals (Low Level)								
Silver (Ag)	<0.0004		0.0004	mg/L		28-JUN-06	QLI	R414261
Aluminum (Al)	2.42		0.02	mg/L		28-JUN-06	QLI	R414261
Arsenic (As)	0.0026		0.0004	mg/L		28-JUN-06	QLI	R414261
Boron (B)	<0.02		0.02	mg/L		28-JUN-06	QLI	R414261
Barium (Ba)	0.112		0.0002	mg/L		28-JUN-06	QLI	R414261
Beryllium (Be)	<0.001		0.001	mg/L		28-JUN-06	QLI	R414261
Bismuth (Bi)	<0.0001		0.0001	mg/L		28-JUN-06	QLI	R414261
Cadmium (Cd)	0.0033		0.0002	mg/L		28-JUN-06	QLI	R414261
Cobalt (Co)	0.0073		0.0002	mg/L		28-JUN-06	QLI	R414261
Chromium (Cr)	0.0019		0.0008	mg/L		28-JUN-06	QLI	R414261
Copper (Cu)	0.023		0.001	mg/L		28-JUN-06	QLI	R414261
Molybdenum (Mo)	0.0024		0.0001	mg/L		28-JUN-06	QLI	R414261
Nickel (Ni)	0.0549		0.0002	mg/L		28-JUN-06	QLI	R414261
Lead (Pb)	0.0010		0.0001	mg/L		28-JUN-06	QLI	R414261
Antimony (Sb)	0.0010		0.0004	mg/L		28-JUN-06	QLI	R414261
Selenium (Se)	0.0024		0.0004	mg/L		28-JUN-06	QLI	R414261
Tin (Sn)	<0.0004		0.0004	mg/L		28-JUN-06	QLI	R414261
Strontium (Sr)	0.0995		0.0002	mg/L		28-JUN-06	QLI	R414261

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L401711-3 STATION 2 MACTUNG								
Sampled By: SM/KL/JM/NJ on 15-JUN-06								
Matrix: WATER								
Total Metals								
Total Trace Metals (Low Level)								
Titanium (Ti)	0.029		0.005	mg/L		28-JUN-06	QLI	R414261
Thallium (Tl)	<0.0001		0.0001	mg/L		28-JUN-06	QLI	R414261
Uranium (U)	0.0016		0.0001	mg/L		28-JUN-06	QLI	R414261
Vanadium (V)	0.0091		0.0002	mg/L		28-JUN-06	QLI	R414261
Zinc (Zn)	0.189		0.004	mg/L		28-JUN-06	QLI	R414261
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.068		0.005	mg/L		21-JUL-06	SYF	R422347
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		18-JUL-06	CLL	R421692
Aluminum (Al)	0.0260		0.0003	mg/L		18-JUL-06	CLL	R421692
Arsenic (As)	0.00008		0.00003	mg/L		18-JUL-06	CLL	R421692
Boron (B)	0.001		0.001	mg/L		18-JUL-06	CLL	R421692
Barium (Ba)	0.0412		0.00005	mg/L		18-JUL-06	CLL	R421692
Beryllium (Be)	<0.0002		0.0002	mg/L		18-JUL-06	CLL	R421692
Calcium (Ca)	19.8		0.02	mg/L		18-JUL-06	CLL	R421692
Cadmium (Cd)	0.00282		0.00005	mg/L		18-JUL-06	CLL	R421692
Cobalt (Co)	0.0049		0.0001	mg/L		18-JUL-06	CLL	R421692
Chromium (Cr)	<0.00006		0.00006	mg/L		18-JUL-06	CLL	R421692
Copper (Cu)	0.0025		0.0006	mg/L		18-JUL-06	CLL	R421692
Mercury (Hg)	<0.00002		0.00002	mg/L		18-JUL-06	CLL	R421692
Potassium (K)	0.42		0.02	mg/L		18-JUL-06	CLL	R421692
Magnesium (Mg)	5.02		0.004	mg/L		18-JUL-06	CLL	R421692
Manganese (Mn)	0.0717		0.0001	mg/L		18-JUL-06	CLL	R421692
Molybdenum (Mo)	0.00116		0.00006	mg/L		18-JUL-06	CLL	R421692
Sodium (Na)	0.403		0.005	mg/L		18-JUL-06	CLL	R421692
Nickel (Ni)	0.0443		0.00006	mg/L		18-JUL-06	CLL	R421692
Lead (Pb)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Antimony (Sb)	0.00045		0.00003	mg/L		18-JUL-06	CLL	R421692
Selenium (Se)	0.0023		0.0001	mg/L		18-JUL-06	CLL	R421692
Strontium (Sr)	0.0814		0.0001	mg/L		18-JUL-06	CLL	R421692
Uranium (U)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Vanadium (V)	0.00006		0.00005	mg/L		18-JUL-06	CLL	R421692
Zinc (Zn)	0.129		0.0008	mg/L		18-JUL-06	CLL	R421692
Ammonia-N	<0.005		0.005	mg/L		26-JUN-06	KMY	R413258
Phosphorus, Total	0.052		0.001	mg/L		29-JUN-06	SHC	R414679
Total Organic Carbon	1		1	mg/L		22-JUN-06	TL	R412024
Routine Water Analysis - Low Level								
Chloride (Cl)	<1		1	mg/L		22-JUN-06	WYA	R412079
ICP metals for routine water								
Calcium (Ca)	22.8		0.5	mg/L		22-JUN-06	MLH	R412424
Potassium (K)	0.4		0.1	mg/L		22-JUN-06	MLH	R412424
Magnesium (Mg)	5.4		0.1	mg/L		22-JUN-06	MLH	R412424
Sodium (Na)	<1		1	mg/L		22-JUN-06	MLH	R412424
Ion Balance Calculation								
Ion Balance	104			%		23-JUN-06		
TDS (Calculated)	97			mg/L		23-JUN-06		
Hardness (as CaCO3)	79			mg/L		23-JUN-06		
Nitrate+Nitrite-N	0.072		0.006	mg/L		21-JUN-06	KMY	R411915
Nitrate-N	0.072		0.006	mg/L		21-JUN-06	KMY	R411915

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L401711-3 STATION 2 MACTUNG								
Sampled By: SM/KL/JM/NJ on 15-JUN-06								
Matrix: WATER								
Routine Water Analysis - Low Level								
Nitrite-N	<0.002		0.002	mg/L		21-JUN-06	KMY	R411915
Sulphate (SO4)	58.2		0.05	mg/L		22-JUN-06	JTV	R412438
pH, Conductivity and Total Alkalinity								
pH	7.5		0.1	pH		22-JUN-06	JPA	R412639
Conductivity (EC)	173		0.2	uS/cm		22-JUN-06	JPA	R412639
Bicarbonate (HCO3)	19		5	mg/L		22-JUN-06	JPA	R412639
Carbonate (CO3)	<5		5	mg/L		22-JUN-06	JPA	R412639
Hydroxide (OH)	<5		5	mg/L		22-JUN-06	JPA	R412639
Alkalinity, Total (as CaCO3)	16		5	mg/L		22-JUN-06	JPA	R412639
L401711-4 STATION 3 MACTUNG								
Sampled By: SM/KL/JM/NJ on 15-JUN-06								
Matrix: WATER								
Total Metals								
Total Major Metals								
Calcium (Ca)	8.5		0.5	mg/L		28-JUN-06	HAS	R414259
Potassium (K)	0.6		0.1	mg/L		28-JUN-06	HAS	R414259
Magnesium (Mg)	3.8		0.1	mg/L		28-JUN-06	HAS	R414259
Sodium (Na)	<1		1	mg/L		28-JUN-06	HAS	R414259
Iron (Fe)	1.17		0.005	mg/L		28-JUN-06	HAS	R414259
Manganese (Mn)	0.047		0.001	mg/L		28-JUN-06	HAS	R414259
Total Trace Metals (Low Level)								
Silver (Ag)	<0.0004		0.0004	mg/L		28-JUN-06	QLI	R414261
Aluminum (Al)	1.00		0.02	mg/L		28-JUN-06	QLI	R414261
Arsenic (As)	0.0014		0.0004	mg/L		28-JUN-06	QLI	R414261
Boron (B)	<0.02		0.02	mg/L		28-JUN-06	QLI	R414261
Barium (Ba)	0.0332		0.0002	mg/L		28-JUN-06	QLI	R414261
Beryllium (Be)	<0.001		0.001	mg/L		28-JUN-06	QLI	R414261
Bismuth (Bi)	<0.0001		0.0001	mg/L		28-JUN-06	QLI	R414261
Cadmium (Cd)	<0.0002		0.0002	mg/L		28-JUN-06	QLI	R414261
Cobalt (Co)	0.0018		0.0002	mg/L		28-JUN-06	QLI	R414261
Chromium (Cr)	0.0014		0.0008	mg/L		28-JUN-06	QLI	R414261
Copper (Cu)	0.003		0.001	mg/L		28-JUN-06	QLI	R414261
Molybdenum (Mo)	0.0004		0.0001	mg/L		28-JUN-06	QLI	R414261
Nickel (Ni)	0.0050		0.0002	mg/L		28-JUN-06	QLI	R414261
Lead (Pb)	0.0008		0.0001	mg/L		28-JUN-06	QLI	R414261
Antimony (Sb)	<0.0004		0.0004	mg/L		28-JUN-06	QLI	R414261
Selenium (Se)	<0.0004		0.0004	mg/L		28-JUN-06	QLI	R414261
Tin (Sn)	<0.0004		0.0004	mg/L		28-JUN-06	QLI	R414261
Strontium (Sr)	0.0322		0.0002	mg/L		28-JUN-06	QLI	R414261
Titanium (Ti)	0.055		0.005	mg/L		28-JUN-06	QLI	R414261
Thallium (Tl)	<0.0001		0.0001	mg/L		28-JUN-06	QLI	R414261
Uranium (U)	0.0004		0.0001	mg/L		28-JUN-06	QLI	R414261
Vanadium (V)	0.0027		0.0002	mg/L		28-JUN-06	QLI	R414261
Zinc (Zn)	0.011		0.004	mg/L		28-JUN-06	QLI	R414261
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.023		0.005	mg/L		21-JUL-06	SYF	R422347
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		18-JUL-06	CLL	R421692
Aluminum (Al)	0.0372		0.0003	mg/L		18-JUL-06	CLL	R421692
Arsenic (As)	0.00037		0.00003	mg/L		18-JUL-06	CLL	R421692
Boron (B)	<0.001		0.001	mg/L		18-JUL-06	CLL	R421692

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L401711-4 STATION 3 MACTUNG								
Sampled By: SM/KL/JM/NJ on 15-JUN-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals - Dissolved								
Barium (Ba)	0.0142		0.00005	mg/L		18-JUL-06	CLL	R421692
Beryllium (Be)	<0.0002		0.0002	mg/L		18-JUL-06	CLL	R421692
Calcium (Ca)	7.90		0.02	mg/L		18-JUL-06	CLL	R421692
Cadmium (Cd)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Cobalt (Co)	0.0008		0.0001	mg/L		18-JUL-06	CLL	R421692
Chromium (Cr)	<0.00006		0.00006	mg/L		18-JUL-06	CLL	R421692
Copper (Cu)	0.0008		0.0006	mg/L		18-JUL-06	CLL	R421692
Mercury (Hg)	<0.00002		0.00002	mg/L		18-JUL-06	CLL	R421692
Potassium (K)	0.32		0.02	mg/L		18-JUL-06	CLL	R421692
Magnesium (Mg)	3.60		0.004	mg/L		18-JUL-06	CLL	R421692
Manganese (Mn)	0.0196		0.0001	mg/L		18-JUL-06	CLL	R421692
Molybdenum (Mo)	0.00025		0.00006	mg/L		18-JUL-06	CLL	R421692
Sodium (Na)	0.354		0.005	mg/L		18-JUL-06	CLL	R421692
Nickel (Ni)	0.00353		0.00006	mg/L		18-JUL-06	CLL	R421692
Lead (Pb)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Antimony (Sb)	0.00037		0.00003	mg/L		18-JUL-06	CLL	R421692
Selenium (Se)	0.0003		0.0001	mg/L		18-JUL-06	CLL	R421692
Strontium (Sr)	0.0260		0.0001	mg/L		18-JUL-06	CLL	R421692
Uranium (U)	0.00015		0.00005	mg/L		18-JUL-06	CLL	R421692
Vanadium (V)	0.00006		0.00005	mg/L		18-JUL-06	CLL	R421692
Zinc (Zn)	0.0063		0.0008	mg/L		18-JUL-06	CLL	R421692
Ammonia-N	<0.005		0.005	mg/L		26-JUN-06	KMY	R413258
Phosphorus, Total	0.026		0.001	mg/L		29-JUN-06	SHC	R414679
Total Organic Carbon	1		1	mg/L		22-JUN-06	TL	R412024
Routine Water Analysis - Low Level								
Chloride (Cl)	<1		1	mg/L		22-JUN-06	WYA	R412079
ICP metals for routine water								
Calcium (Ca)	9.2		0.5	mg/L		22-JUN-06	MLH	R412424
Potassium (K)	0.4		0.1	mg/L		22-JUN-06	MLH	R412424
Magnesium (Mg)	3.8		0.1	mg/L		22-JUN-06	MLH	R412424
Sodium (Na)	<1		1	mg/L		22-JUN-06	MLH	R412424
Ion Balance Calculation								
Ion Balance	Low EC			%		23-JUN-06		
TDS (Calculated)	43			mg/L		23-JUN-06		
Hardness (as CaCO3)	39			mg/L		23-JUN-06		
Nitrate+Nitrite-N	0.030		0.006	mg/L		21-JUN-06	KMY	R411915
Nitrate-N	0.027		0.006	mg/L		21-JUN-06	KMY	R411915
Nitrite-N	0.002		0.002	mg/L		21-JUN-06	KMY	R411915
Sulphate (SO4)	21.7		0.05	mg/L		22-JUN-06	JTV	R412438
pH, Conductivity and Total Alkalinity								
pH	7.5		0.1	pH		22-JUN-06	JPA	R412639
Conductivity (EC)	83.8		0.2	uS/cm		22-JUN-06	JPA	R412639
Bicarbonate (HCO3)	16		5	mg/L		22-JUN-06	JPA	R412639
Carbonate (CO3)	<5		5	mg/L		22-JUN-06	JPA	R412639
Hydroxide (OH)	<5		5	mg/L		22-JUN-06	JPA	R412639
Alkalinity, Total (as CaCO3)	13		5	mg/L		22-JUN-06	JPA	R412639
L401711-5 STATION 4 MACTUNG								
Sampled By: SM/KL/JM/NJ on 15-JUN-06								
Matrix: WATER								

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L401711-5 STATION 4 MACTUNG								
Sampled By: SM/KL/JM/NJ on 15-JUN-06								
Matrix: WATER								
Total Metals								
Total Major Metals								
Calcium (Ca)	12.6		0.5	mg/L		28-JUN-06	HAS	R414259
Potassium (K)	0.7		0.1	mg/L		28-JUN-06	HAS	R414259
Magnesium (Mg)	4.4		0.1	mg/L		28-JUN-06	HAS	R414259
Sodium (Na)	<1		1	mg/L		28-JUN-06	HAS	R414259
Iron (Fe)	1.82		0.005	mg/L		28-JUN-06	HAS	R414259
Manganese (Mn)	0.075		0.001	mg/L		28-JUN-06	HAS	R414259
Total Trace Metals (Low Level)								
Silver (Ag)	<0.0004		0.0004	mg/L		28-JUN-06	QLI	R414261
Aluminum (Al)	1.51		0.02	mg/L		28-JUN-06	QLI	R414261
Arsenic (As)	0.0021		0.0004	mg/L		28-JUN-06	QLI	R414261
Boron (B)	<0.02		0.02	mg/L		28-JUN-06	QLI	R414261
Barium (Ba)	0.0671		0.0002	mg/L		28-JUN-06	QLI	R414261
Beryllium (Be)	<0.001		0.001	mg/L		28-JUN-06	QLI	R414261
Bismuth (Bi)	<0.0001		0.0001	mg/L		28-JUN-06	QLI	R414261
Cadmium (Cd)	0.0010		0.0002	mg/L		28-JUN-06	QLI	R414261
Cobalt (Co)	0.0035		0.0002	mg/L		28-JUN-06	QLI	R414261
Chromium (Cr)	0.0017		0.0008	mg/L		28-JUN-06	QLI	R414261
Copper (Cu)	0.009		0.001	mg/L		28-JUN-06	QLI	R414261
Molybdenum (Mo)	0.0013		0.0001	mg/L		28-JUN-06	QLI	R414261
Nickel (Ni)	0.0199		0.0002	mg/L		28-JUN-06	QLI	R414261
Lead (Pb)	0.0010		0.0001	mg/L		28-JUN-06	QLI	R414261
Antimony (Sb)	0.0005		0.0004	mg/L		28-JUN-06	QLI	R414261
Selenium (Se)	0.0011		0.0004	mg/L		28-JUN-06	QLI	R414261
Tin (Sn)	<0.0004		0.0004	mg/L		28-JUN-06	QLI	R414261
Strontium (Sr)	0.0522		0.0002	mg/L		28-JUN-06	QLI	R414261
Titanium (Ti)	0.044		0.005	mg/L		28-JUN-06	QLI	R414261
Thallium (Tl)	<0.0001		0.0001	mg/L		28-JUN-06	QLI	R414261
Uranium (U)	0.0007		0.0001	mg/L		28-JUN-06	QLI	R414261
Vanadium (V)	0.0053		0.0002	mg/L		28-JUN-06	QLI	R414261
Zinc (Zn)	0.061		0.004	mg/L		28-JUN-06	QLI	R414261
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.029		0.005	mg/L		21-JUL-06	SYF	R422347
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		18-JUL-06	CLL	R421692
Aluminum (Al)	0.0386		0.0003	mg/L		18-JUL-06	CLL	R421692
Arsenic (As)	0.00019		0.00003	mg/L		18-JUL-06	CLL	R421692
Boron (B)	0.001		0.001	mg/L		18-JUL-06	CLL	R421692
Barium (Ba)	0.0217		0.00005	mg/L		18-JUL-06	CLL	R421692
Beryllium (Be)	<0.0002		0.0002	mg/L		18-JUL-06	CLL	R421692
Calcium (Ca)	11.5		0.02	mg/L		18-JUL-06	CLL	R421692
Cadmium (Cd)	0.00080		0.00005	mg/L		18-JUL-06	CLL	R421692
Cobalt (Co)	0.0018		0.0001	mg/L		18-JUL-06	CLL	R421692
Chromium (Cr)	<0.00006		0.00006	mg/L		18-JUL-06	CLL	R421692
Copper (Cu)	0.0013		0.0006	mg/L		18-JUL-06	CLL	R421692
Mercury (Hg)	<0.00002		0.00002	mg/L		18-JUL-06	CLL	R421692
Potassium (K)	0.34		0.02	mg/L		18-JUL-06	CLL	R421692
Magnesium (Mg)	3.99		0.004	mg/L		18-JUL-06	CLL	R421692
Manganese (Mn)	0.0324		0.0001	mg/L		18-JUL-06	CLL	R421692
Molybdenum (Mo)	0.00052		0.00006	mg/L		18-JUL-06	CLL	R421692
Sodium (Na)	0.369		0.005	mg/L		18-JUL-06	CLL	R421692
Nickel (Ni)	0.0143		0.00006	mg/L		18-JUL-06	CLL	R421692

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L401711-5 STATION 4 MACTUNG								
Sampled By: SM/KL/JM/NJ on 15-JUN-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals - Dissolved								
Lead (Pb)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Antimony (Sb)	0.00042		0.00003	mg/L		18-JUL-06	CLL	R421692
Selenium (Se)	0.0008		0.0001	mg/L		18-JUL-06	CLL	R421692
Strontium (Sr)	0.0436		0.0001	mg/L		18-JUL-06	CLL	R421692
Uranium (U)	0.00009		0.00005	mg/L		18-JUL-06	CLL	R421692
Vanadium (V)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Zinc (Zn)	0.0384		0.0008	mg/L		18-JUL-06	CLL	R421692
Ammonia-N	<0.005		0.005	mg/L		26-JUN-06	KMY	R413258
Phosphorus, Total	0.040		0.001	mg/L		29-JUN-06	SHC	R414679
Total Organic Carbon	2		1	mg/L		22-JUN-06	TL	R412024
Routine Water Analysis - Low Level								
Chloride (Cl)	<1		1	mg/L		22-JUN-06	WYA	R412079
ICP metals for routine water								
Calcium (Ca)	13.8		0.5	mg/L		22-JUN-06	MLH	R412424
Potassium (K)	0.5		0.1	mg/L		22-JUN-06	MLH	R412424
Magnesium (Mg)	4.5		0.1	mg/L		22-JUN-06	MLH	R412424
Sodium (Na)	<1		1	mg/L		22-JUN-06	MLH	R412424
Ion Balance Calculation								
Ion Balance	110			%		23-JUN-06		
TDS (Calculated)	61			mg/L		23-JUN-06		
Hardness (as CaCO3)	53			mg/L		23-JUN-06		
Nitrate+Nitrite-N	0.041		0.006	mg/L		21-JUN-06	KMY	R411915
Nitrate-N	0.041		0.006	mg/L		21-JUN-06	KMY	R411915
Nitrite-N	0.002		0.002	mg/L		21-JUN-06	KMY	R411915
Sulphate (SO4)	33.4		0.05	mg/L		22-JUN-06	JTV	R412438
pH, Conductivity and Total Alkalinity								
pH	7.5		0.1	pH		22-JUN-06	JPA	R412639
Conductivity (EC)	115		0.2	uS/cm		22-JUN-06	JPA	R412639
Bicarbonate (HCO3)	17		5	mg/L		22-JUN-06	JPA	R412639
Carbonate (CO3)	<5		5	mg/L		22-JUN-06	JPA	R412639
Hydroxide (OH)	<5		5	mg/L		22-JUN-06	JPA	R412639
Alkalinity, Total (as CaCO3)	14		5	mg/L		22-JUN-06	JPA	R412639
L401711-6 STATION 5 MACTUNG								
Sampled By: SM/KL/JM/NJ on 17-JUN-06								
Matrix: WATER								
Total Metals								
Total Major Metals								
Calcium (Ca)	10.6		0.5	mg/L		28-JUN-06	HAS	R414259
Potassium (K)	0.5		0.1	mg/L		28-JUN-06	HAS	R414259
Magnesium (Mg)	1.7		0.1	mg/L		28-JUN-06	HAS	R414259
Sodium (Na)	<1		1	mg/L		28-JUN-06	HAS	R414259
Iron (Fe)	0.513		0.005	mg/L		28-JUN-06	HAS	R414259
Manganese (Mn)	0.032		0.001	mg/L		28-JUN-06	HAS	R414259
Total Trace Metals (Low Level)								
Silver (Ag)	<0.0004		0.0004	mg/L		28-JUN-06	QLI	R414261
Aluminum (Al)	0.38		0.02	mg/L		28-JUN-06	QLI	R414261
Arsenic (As)	0.0034		0.0004	mg/L		28-JUN-06	QLI	R414261
Boron (B)	<0.02		0.02	mg/L		28-JUN-06	QLI	R414261
Barium (Ba)	0.0488		0.0002	mg/L		28-JUN-06	QLI	R414261

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L401711-6 STATION 5 MACTUNG								
Sampled By: SM/KL/JM/NJ on 17-JUN-06								
Matrix: WATER								
Total Metals								
Total Trace Metals (Low Level)								
Beryllium (Be)	<0.001		0.001	mg/L		28-JUN-06	QLI	R414261
Bismuth (Bi)	<0.0001		0.0001	mg/L		28-JUN-06	QLI	R414261
Cadmium (Cd)	0.0005		0.0002	mg/L		28-JUN-06	QLI	R414261
Cobalt (Co)	0.0015		0.0002	mg/L		28-JUN-06	QLI	R414261
Chromium (Cr)	0.0011		0.0008	mg/L		28-JUN-06	QLI	R414261
Copper (Cu)	0.005		0.001	mg/L		28-JUN-06	QLI	R414261
Molybdenum (Mo)	0.0014		0.0001	mg/L		28-JUN-06	QLI	R414261
Nickel (Ni)	0.0098		0.0002	mg/L		28-JUN-06	QLI	R414261
Lead (Pb)	0.0004		0.0001	mg/L		28-JUN-06	QLI	R414261
Antimony (Sb)	0.0006		0.0004	mg/L		28-JUN-06	QLI	R414261
Selenium (Se)	0.0015		0.0004	mg/L		28-JUN-06	QLI	R414261
Tin (Sn)	<0.0004		0.0004	mg/L		28-JUN-06	QLI	R414261
Strontium (Sr)	0.0411		0.0002	mg/L		28-JUN-06	QLI	R414261
Titanium (Ti)	0.011		0.005	mg/L		28-JUN-06	QLI	R414261
Thallium (Tl)	<0.0001		0.0001	mg/L		28-JUN-06	QLI	R414261
Uranium (U)	0.0006		0.0001	mg/L		28-JUN-06	QLI	R414261
Vanadium (V)	0.0069		0.0002	mg/L		28-JUN-06	QLI	R414261
Zinc (Zn)	0.041		0.004	mg/L		28-JUN-06	QLI	R414261
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.021		0.005	mg/L		21-JUL-06	SYF	R422347
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		18-JUL-06	CLL	R421692
Aluminum (Al)	0.0165		0.0003	mg/L		18-JUL-06	CLL	R421692
Arsenic (As)	0.00071		0.00003	mg/L		18-JUL-06	CLL	R421692
Boron (B)	<0.001		0.001	mg/L		18-JUL-06	CLL	R421692
Barium (Ba)	0.0228		0.00005	mg/L		18-JUL-06	CLL	R421692
Beryllium (Be)	<0.0002		0.0002	mg/L		18-JUL-06	CLL	R421692
Calcium (Ca)	9.33		0.02	mg/L		18-JUL-06	CLL	R421692
Cadmium (Cd)	0.00026		0.00005	mg/L		18-JUL-06	CLL	R421692
Cobalt (Co)	0.0003		0.0001	mg/L		18-JUL-06	CLL	R421692
Chromium (Cr)	<0.00006		0.00006	mg/L		18-JUL-06	CLL	R421692
Copper (Cu)	0.0015		0.0006	mg/L		18-JUL-06	CLL	R421692
Mercury (Hg)	<0.00002		0.00002	mg/L		18-JUL-06	CLL	R421692
Potassium (K)	0.36		0.02	mg/L		18-JUL-06	CLL	R421692
Magnesium (Mg)	1.36		0.004	mg/L		18-JUL-06	CLL	R421692
Manganese (Mn)	0.0084		0.0001	mg/L		18-JUL-06	CLL	R421692
Molybdenum (Mo)	0.00085		0.00006	mg/L		18-JUL-06	CLL	R421692
Sodium (Na)	0.211		0.005	mg/L		18-JUL-06	CLL	R421692
Nickel (Ni)	0.00545		0.00006	mg/L		18-JUL-06	CLL	R421692
Lead (Pb)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Antimony (Sb)	0.00048		0.00003	mg/L		18-JUL-06	CLL	R421692
Selenium (Se)	0.0006		0.0001	mg/L		18-JUL-06	CLL	R421692
Strontium (Sr)	0.0332		0.0001	mg/L		18-JUL-06	CLL	R421692
Uranium (U)	0.00021		0.00005	mg/L		18-JUL-06	CLL	R421692
Vanadium (V)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Zinc (Zn)	0.0198		0.0008	mg/L		18-JUL-06	CLL	R421692
Ammonia-N	<0.005		0.005	mg/L		26-JUN-06	KMY	R413258
Phosphorus, Total	0.017		0.001	mg/L		29-JUN-06	SHC	R414679
Total Organic Carbon	2		1	mg/L		22-JUN-06	TL	R412024

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L401711-6 STATION 5 MACTUNG								
Sampled By: SM/KL/JM/NJ on 17-JUN-06								
Matrix: WATER								
Routine Water Analysis - Low Level								
Chloride (Cl)	<1		1	mg/L		22-JUN-06	WYA	R412079
ICP metals for routine water								
Calcium (Ca)	11.0		0.5	mg/L		22-JUN-06	MLH	R412424
Potassium (K)	0.3		0.1	mg/L		22-JUN-06	MLH	R412424
Magnesium (Mg)	1.5		0.1	mg/L		22-JUN-06	MLH	R412424
Sodium (Na)	<1		1	mg/L		22-JUN-06	MLH	R412424
Ion Balance Calculation								
Ion Balance	Low EC			%		23-JUN-06		
TDS (Calculated)	38			mg/L		23-JUN-06		
Hardness (as CaCO3)	34			mg/L		23-JUN-06		
Nitrate+Nitrite-N	0.026		0.006	mg/L		21-JUN-06	KMY	R411915
Nitrate-N	0.026		0.006	mg/L		21-JUN-06	KMY	R411915
Nitrite-N	<0.002		0.002	mg/L		21-JUN-06	KMY	R411915
Sulphate (SO4)	15.6		0.05	mg/L		22-JUN-06	JTV	R412438
pH, Conductivity and Total Alkalinity								
pH	7.5		0.1	pH		22-JUN-06	JPA	R412639
Conductivity (EC)	72.9		0.2	uS/cm		22-JUN-06	JPA	R412639
Bicarbonate (HCO3)	18		5	mg/L		22-JUN-06	JPA	R412639
Carbonate (CO3)	<5		5	mg/L		22-JUN-06	JPA	R412639
Hydroxide (OH)	<5		5	mg/L		22-JUN-06	JPA	R412639
Alkalinity, Total (as CaCO3)	15		5	mg/L		22-JUN-06	JPA	R412639
L401711-7 STATION 6 MACTUNG								
Sampled By: SM/KL/JM/NJ on 17-JUN-06								
Matrix: WATER								
Extractable Metals								
Extractable Major Metals								
Calcium (Ca)	23.8		0.5	mg/L		29-JUN-06	HAS	R414997
Potassium (K)	1.7		0.1	mg/L		29-JUN-06	HAS	R414997
Magnesium (Mg)	1.51		0.01	mg/L		29-JUN-06	HAS	R414997
Sodium (Na)	<0.5		0.5	mg/L		29-JUN-06	HAS	R414997
Iron (Fe)	1.40		0.005	mg/L		29-JUN-06	HAS	R414997
Manganese (Mn)	0.017		0.001	mg/L		29-JUN-06	HAS	R414997
Extractable Trace Metals (Low Level)								
Silver (Ag)	<0.0002		0.0002	mg/L		28-JUN-06	QLI	R414581
Aluminum (Al)	33.6		0.01	mg/L		28-JUN-06	QLI	R414581
Arsenic (As)	0.0473		0.0004	mg/L		28-JUN-06	QLI	R414581
Boron (B)	0.003		0.002	mg/L		28-JUN-06	QLI	R414581
Barium (Ba)	1.94		0.0001	mg/L		28-JUN-06	QLI	R414581
Beryllium (Be)	0.0062		0.0005	mg/L		28-JUN-06	QLI	R414581
Bismuth (Bi)	0.00006		0.00005	mg/L		28-JUN-06	QLI	R414581
Cadmium (Cd)	0.0203		0.0001	mg/L		28-JUN-06	QLI	R414581
Cobalt (Co)	0.0992		0.0001	mg/L		28-JUN-06	QLI	R414581
Chromium (Cr)	0.0135		0.0004	mg/L		28-JUN-06	QLI	R414581
Copper (Cu)	0.215		0.0006	mg/L		28-JUN-06	QLI	R414581
Molybdenum (Mo)	0.0011		0.0001	mg/L		28-JUN-06	QLI	R414581
Nickel (Ni)	0.176		0.0001	mg/L		28-JUN-06	QLI	R414581
Lead (Pb)	0.0455		0.0001	mg/L		28-JUN-06	QLI	R414581
Antimony (Sb)	0.0008		0.0004	mg/L		28-JUN-06	QLI	R414581
Selenium (Se)	0.0015		0.0004	mg/L		28-JUN-06	QLI	R414581
Tin (Sn)	<0.0002		0.0002	mg/L		28-JUN-06	QLI	R414581
Strontium (Sr)	0.294		0.0001	mg/L		28-JUN-06	QLI	R414581

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L401711-7 STATION 6 MACTUNG								
Sampled By: SM/KL/JM/NJ on 17-JUN-06								
Matrix: WATER								
Extractable Metals								
Extractable Trace Metals (Low Level)								
Titanium (Ti)	0.0210		0.0003	mg/L		28-JUN-06	QLI	R414581
Thallium (Tl)	0.00044		0.00005	mg/L		28-JUN-06	QLI	R414581
Uranium (U)	0.0162		0.0001	mg/L		28-JUN-06	QLI	R414581
Vanadium (V)	0.0918		0.0001	mg/L		28-JUN-06	QLI	R414581
Zinc (Zn)	0.981		0.002	mg/L		28-JUN-06	QLI	R414581
Total Metals								
Total Major Metals								
Calcium (Ca)	120		0.5	mg/L		29-JUN-06	HAS	R415153
Potassium (K)	43.3		0.1	mg/L		29-JUN-06	HAS	R415153
Magnesium (Mg)	148		0.1	mg/L		29-JUN-06	HAS	R415153
Sodium (Na)	2		1	mg/L		29-JUN-06	HAS	R415153
Iron (Fe)	252		0.005	mg/L		29-JUN-06	HAS	R415153
Manganese (Mn)	3.64		0.001	mg/L		29-JUN-06	HAS	R415153
Total Trace Metals (Low Level)								
Silver (Ag)	0.0006		0.0004	mg/L		29-JUN-06	QLI	R415272
Aluminum (Al)	200		0.02	mg/L		29-JUN-06	QLI	R415272
Arsenic (As)	0.383		0.0004	mg/L		29-JUN-06	QLI	R415272
Boron (B)	0.02		0.02	mg/L		29-JUN-06	QLI	R415272
Barium (Ba)	7.76		0.0002	mg/L		29-JUN-06	QLI	R415272
Beryllium (Be)	0.012		0.001	mg/L		29-JUN-06	QLI	R415272
Bismuth (Bi)	0.0084		0.0001	mg/L		29-JUN-06	QLI	R415272
Cadmium (Cd)	0.0271		0.0002	mg/L		29-JUN-06	QLI	R415272
Cobalt (Co)	0.146		0.0002	mg/L		29-JUN-06	QLI	R415272
Chromium (Cr)	0.272		0.0008	mg/L		29-JUN-06	QLI	R415272
Copper (Cu)	0.619		0.001	mg/L		29-JUN-06	QLI	R415272
Molybdenum (Mo)	0.0231		0.0001	mg/L		29-JUN-06	QLI	R415272
Nickel (Ni)	0.516		0.0002	mg/L		29-JUN-06	QLI	R415272
Lead (Pb)	0.161		0.0001	mg/L		29-JUN-06	QLI	R415272
Antimony (Sb)	0.0031		0.0004	mg/L		29-JUN-06	QLI	R415272
Selenium (Se)	0.0087		0.0004	mg/L		29-JUN-06	QLI	R415272
Tin (Sn)	0.0014		0.0004	mg/L		29-JUN-06	QLI	R415272
Strontium (Sr)	0.348		0.0002	mg/L		29-JUN-06	QLI	R415272
Titanium (Ti)	5.11		0.005	mg/L		29-JUN-06	QLI	R415272
Thallium (Tl)	0.0034		0.0001	mg/L		29-JUN-06	QLI	R415272
Uranium (U)	0.0352		0.0001	mg/L		29-JUN-06	QLI	R415272
Vanadium (V)	0.767		0.0002	mg/L		29-JUN-06	QLI	R415272
Zinc (Zn)	2.78		0.004	mg/L		29-JUN-06	QLI	R415272
Ammonia-N	0.134		0.005	mg/L		26-JUN-06	KMY	R413258
Phosphorus, Total	13.5		0.02	mg/L		30-JUN-06	WYA	R415209
Total Organic Carbon	8		1	mg/L		22-JUN-06	TL	R412024
Routine Water Analysis - Low Level								
Chloride (Cl)	1		1	mg/L		22-JUN-06	WYA	R412079
ICP metals for routine water								
Calcium (Ca)	22.1		0.5	mg/L		22-JUN-06	MLH	R412424
Potassium (K)	1.3		0.1	mg/L		22-JUN-06	MLH	R412424
Magnesium (Mg)	1.3		0.1	mg/L		22-JUN-06	MLH	R412424
Sodium (Na)	<1		1	mg/L		22-JUN-06	MLH	R412424
Ion Balance Calculation								
Ion Balance	94.3			%		23-JUN-06		
TDS (Calculated)	72			mg/L		23-JUN-06		

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L401711-7 STATION 6 MACTUNG								
Sampled By: SM/KL/JM/NJ on 17-JUN-06								
Matrix: WATER								
Routine Water Analysis - Low Level								
Ion Balance Calculation								
Hardness (as CaCO3)	61			mg/L		23-JUN-06		
Nitrate+Nitrite-N	0.036		0.006	mg/L		21-JUN-06	KMY	R411915
Nitrate-N	0.036		0.006	mg/L		21-JUN-06	KMY	R411915
Nitrite-N	<0.002		0.002	mg/L		21-JUN-06	KMY	R411915
Sulphate (SO4)	20.1		0.05	mg/L		22-JUN-06	JTV	R412438
pH, Conductivity and Total Alkalinity								
pH	8.0		0.1	pH		22-JUN-06	JPA	R412639
Conductivity (EC)	134		0.2	uS/cm		22-JUN-06	JPA	R412639
Bicarbonate (HCO3)	53		5	mg/L		22-JUN-06	JPA	R412639
Carbonate (CO3)	<5		5	mg/L		22-JUN-06	JPA	R412639
Hydroxide (OH)	<5		5	mg/L		22-JUN-06	JPA	R412639
Alkalinity, Total (as CaCO3)	43		5	mg/L		22-JUN-06	JPA	R412639
L401711-8 STATION 7 MACTUNG								
Sampled By: SM/KL/JM/NJ on 17-JUN-06								
Matrix: WATER								
Extractable Metals								
Extractable Major Metals								
Calcium (Ca)	7.8		0.5	mg/L		29-JUN-06	HAS	R414997
Potassium (K)	1.4		0.1	mg/L		29-JUN-06	HAS	R414997
Magnesium (Mg)	1.44		0.01	mg/L		29-JUN-06	HAS	R414997
Sodium (Na)	<0.5		0.5	mg/L		29-JUN-06	HAS	R414997
Iron (Fe)	1.03		0.005	mg/L		29-JUN-06	HAS	R414997
Manganese (Mn)	0.021		0.001	mg/L		29-JUN-06	HAS	R414997
Extractable Trace Metals (Low Level)								
Silver (Ag)	<0.0002		0.0002	mg/L		28-JUN-06	QLI	R413341
Aluminum (Al)	6.94		0.01	mg/L		28-JUN-06	QLI	R413341
Arsenic (As)	0.0122		0.0004	mg/L		28-JUN-06	QLI	R413341
Boron (B)	<0.002		0.002	mg/L		28-JUN-06	QLI	R413341
Barium (Ba)	0.335		0.0001	mg/L		28-JUN-06	QLI	R413341
Beryllium (Be)	0.0005		0.0005	mg/L		28-JUN-06	QLI	R413341
Bismuth (Bi)	0.00006		0.00005	mg/L		28-JUN-06	QLI	R413341
Cadmium (Cd)	0.0020		0.0001	mg/L		28-JUN-06	QLI	R413341
Cobalt (Co)	0.0097		0.0001	mg/L		28-JUN-06	QLI	R413341
Chromium (Cr)	0.0078		0.0004	mg/L		28-JUN-06	QLI	R413341
Copper (Cu)	0.0290		0.0006	mg/L		28-JUN-06	QLI	R413341
Molybdenum (Mo)	0.0003		0.0001	mg/L		28-JUN-06	QLI	R413341
Nickel (Ni)	0.0263		0.0001	mg/L		28-JUN-06	QLI	R413341
Lead (Pb)	0.0079		0.0001	mg/L		28-JUN-06	QLI	R413341
Antimony (Sb)	<0.0004		0.0004	mg/L		28-JUN-06	QLI	R413341
Selenium (Se)	0.0021		0.0004	mg/L		28-JUN-06	QLI	R413341
Tin (Sn)	<0.0002		0.0002	mg/L		28-JUN-06	QLI	R413341
Strontium (Sr)	0.0332		0.0001	mg/L		28-JUN-06	QLI	R413341
Titanium (Ti)	0.0615		0.0003	mg/L		28-JUN-06	QLI	R413341
Thallium (Tl)	0.00007		0.00005	mg/L		28-JUN-06	QLI	R413341
Uranium (U)	0.0020		0.0001	mg/L		28-JUN-06	QLI	R413341
Vanadium (V)	0.0270		0.0001	mg/L		28-JUN-06	QLI	R413341
Zinc (Zn)	0.130		0.002	mg/L		28-JUN-06	QLI	R413341
Total Metals								
Total Major Metals								
Calcium (Ca)	12.0		0.5	mg/L		28-JUN-06	HAS	R414259

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L401711-8 STATION 7 MACTUNG								
Sampled By: SM/KL/JM/NJ on 17-JUN-06								
Matrix: WATER								
Total Metals								
Total Major Metals								
Potassium (K)	5.2		0.1	mg/L		28-JUN-06	HAS	R414259
Magnesium (Mg)	17.2		0.1	mg/L		28-JUN-06	HAS	R414259
Sodium (Na)	<1		1	mg/L		28-JUN-06	HAS	R414259
Iron (Fe)	24.4		0.005	mg/L		28-JUN-06	HAS	R414259
Manganese (Mn)	0.346		0.001	mg/L		28-JUN-06	HAS	R414259
Total Trace Metals (Low Level)								
Silver (Ag)	<0.0004		0.0004	mg/L		28-JUN-06	QLI	R414261
Aluminum (Al)	22.2		0.02	mg/L		28-JUN-06	QLI	R414261
Arsenic (As)	0.0535		0.0004	mg/L		28-JUN-06	QLI	R414261
Boron (B)	<0.02		0.02	mg/L		28-JUN-06	QLI	R414261
Barium (Ba)	0.923		0.0002	mg/L		28-JUN-06	QLI	R414261
Beryllium (Be)	0.001		0.001	mg/L		28-JUN-06	QLI	R414261
Bismuth (Bi)	0.0009		0.0001	mg/L		28-JUN-06	QLI	R414261
Cadmium (Cd)	0.0025		0.0002	mg/L		28-JUN-06	QLI	R414261
Cobalt (Co)	0.0153		0.0002	mg/L		28-JUN-06	QLI	R414261
Chromium (Cr)	0.0283		0.0008	mg/L		28-JUN-06	QLI	R414261
Copper (Cu)	0.073		0.001	mg/L		28-JUN-06	QLI	R414261
Molybdenum (Mo)	0.0040		0.0001	mg/L		28-JUN-06	QLI	R414261
Nickel (Ni)	0.0628		0.0002	mg/L		28-JUN-06	QLI	R414261
Lead (Pb)	0.0155		0.0001	mg/L		28-JUN-06	QLI	R414261
Antimony (Sb)	0.0023		0.0004	mg/L		28-JUN-06	QLI	R414261
Selenium (Se)	0.0014		0.0004	mg/L		28-JUN-06	QLI	R414261
Tin (Sn)	0.0006		0.0004	mg/L		28-JUN-06	QLI	R414261
Strontium (Sr)	0.0453		0.0002	mg/L		28-JUN-06	QLI	R414261
Titanium (Ti)	0.771		0.005	mg/L		28-JUN-06	QLI	R414261
Thallium (Tl)	0.0003		0.0001	mg/L		28-JUN-06	QLI	R414261
Uranium (U)	0.0034		0.0001	mg/L		28-JUN-06	QLI	R414261
Vanadium (V)	0.0792		0.0002	mg/L		28-JUN-06	QLI	R414261
Zinc (Zn)	0.354		0.004	mg/L		28-JUN-06	QLI	R414261
Ammonia-N	0.052		0.005	mg/L		26-JUN-06	KMY	R413258
Phosphorus, Total	0.652		0.001	mg/L		29-JUN-06	SHC	R414679
Total Organic Carbon	3		1	mg/L		22-JUN-06	TL	R412024
Routine Water Analysis - Low Level								
Chloride (Cl)	<1		1	mg/L		22-JUN-06	WYA	R412079
ICP metals for routine water								
Calcium (Ca)	8.4		0.5	mg/L		22-JUN-06	MLH	R412424
Potassium (K)	0.6		0.1	mg/L		22-JUN-06	MLH	R412424
Magnesium (Mg)	1.3		0.1	mg/L		22-JUN-06	MLH	R412424
Sodium (Na)	<1		1	mg/L		22-JUN-06	MLH	R412424
Ion Balance Calculation								
Ion Balance	Low EC			%		23-JUN-06		
TDS (Calculated)	30			mg/L		23-JUN-06		
Hardness (as CaCO3)	26			mg/L		23-JUN-06		
Nitrate+Nitrite-N	0.015		0.006	mg/L		21-JUN-06	KMY	R411915
Nitrate-N	0.015		0.006	mg/L		21-JUN-06	KMY	R411915
Nitrite-N	<0.002		0.002	mg/L		21-JUN-06	KMY	R411915
Sulphate (SO4)	13.7		0.05	mg/L		22-JUN-06	JTV	R412438
pH, Conductivity and Total Alkalinity								
pH	7.4		0.1	pH		22-JUN-06	JPA	R412639

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L401711-8 STATION 7 MACTUNG								
Sampled By: SM/KL/JM/NJ on 17-JUN-06								
Matrix: WATER								
Routine Water Analysis - Low Level								
pH, Conductivity and Total Alkalinity								
Conductivity (EC)	58.7		0.2	uS/cm		22-JUN-06	JPA	R412639
Bicarbonate (HCO3)	12		5	mg/L		22-JUN-06	JPA	R412639
Carbonate (CO3)	<5		5	mg/L		22-JUN-06	JPA	R412639
Hydroxide (OH)	<5		5	mg/L		22-JUN-06	JPA	R412639
Alkalinity, Total (as CaCO3)	10		5	mg/L		22-JUN-06	JPA	R412639
L401711-9 FIELD BLANK								
Sampled By: SM/KL/JM/NJ on 17-JUN-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	<0.005		0.005	mg/L		21-JUL-06	SYF	R422347
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		18-JUL-06	CLL	R421692
Aluminum (Al)	0.0008		0.0003	mg/L		18-JUL-06	CLL	R421692
Arsenic (As)	<0.00003		0.00003	mg/L		18-JUL-06	CLL	R421692
Boron (B)	<0.001		0.001	mg/L		18-JUL-06	CLL	R421692
Barium (Ba)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Beryllium (Be)	<0.0002		0.0002	mg/L		18-JUL-06	CLL	R421692
Calcium (Ca)	0.06		0.02	mg/L		18-JUL-06	CLL	R421692
Cadmium (Cd)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Cobalt (Co)	<0.0001		0.0001	mg/L		18-JUL-06	CLL	R421692
Chromium (Cr)	<0.00006		0.00006	mg/L		18-JUL-06	CLL	R421692
Copper (Cu)	<0.0006		0.0006	mg/L		18-JUL-06	CLL	R421692
Mercury (Hg)	<0.00002		0.00002	mg/L		18-JUL-06	CLL	R421692
Potassium (K)	<0.02		0.02	mg/L		18-JUL-06	CLL	R421692
Magnesium (Mg)	<0.004		0.004	mg/L		18-JUL-06	CLL	R421692
Manganese (Mn)	<0.0001		0.0001	mg/L		18-JUL-06	CLL	R421692
Molybdenum (Mo)	<0.00006		0.00006	mg/L		18-JUL-06	CLL	R421692
Sodium (Na)	0.166		0.005	mg/L		18-JUL-06	CLL	R421692
Nickel (Ni)	0.00010		0.00006	mg/L		18-JUL-06	CLL	R421692
Lead (Pb)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Antimony (Sb)	0.00029		0.00003	mg/L		18-JUL-06	CLL	R421692
Selenium (Se)	<0.0001		0.0001	mg/L		18-JUL-06	CLL	R421692
Strontium (Sr)	0.0001		0.0001	mg/L		18-JUL-06	CLL	R421692
Uranium (U)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Vanadium (V)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Zinc (Zn)	0.0015		0.0008	mg/L		18-JUL-06	CLL	R421692
Ultra-Low Metals								
Iron (Fe)	<0.005		0.005	mg/L		21-JUL-06	SYF	R422347
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		18-JUL-06	CLL	R421692
Aluminum (Al)	0.0011		0.0003	mg/L		18-JUL-06	CLL	R421692
Arsenic (As)	<0.00003		0.00003	mg/L		18-JUL-06	CLL	R421692
Boron (B)	<0.001		0.001	mg/L		18-JUL-06	CLL	R421692
Barium (Ba)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Beryllium (Be)	<0.0002		0.0002	mg/L		18-JUL-06	CLL	R421692
Calcium (Ca)	0.03		0.02	mg/L		18-JUL-06	CLL	R421692
Cadmium (Cd)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Cobalt (Co)	<0.0001		0.0001	mg/L		18-JUL-06	CLL	R421692
Chromium (Cr)	<0.00006		0.00006	mg/L		18-JUL-06	CLL	R421692
Copper (Cu)	<0.0006		0.0006	mg/L		18-JUL-06	CLL	R421692

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L401711-9 FIELD BLANK								
Sampled By: SM/KL/JM/NJ on 17-JUN-06								
Matrix: WATER								
Ultra-Low Metals								
Ultra-Low Metals								
Mercury (Hg)	<0.00002		0.00002	mg/L		18-JUL-06	CLL	R421692
Potassium (K)	<0.02		0.02	mg/L		18-JUL-06	CLL	R421692
Magnesium (Mg)	<0.004		0.004	mg/L		18-JUL-06	CLL	R421692
Manganese (Mn)	<0.0001		0.0001	mg/L		18-JUL-06	CLL	R421692
Molybdenum (Mo)	<0.00006		0.00006	mg/L		18-JUL-06	CLL	R421692
Sodium (Na)	0.152		0.005	mg/L		18-JUL-06	CLL	R421692
Nickel (Ni)	<0.00006		0.00006	mg/L		18-JUL-06	CLL	R421692
Lead (Pb)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Antimony (Sb)	0.00047		0.00003	mg/L		18-JUL-06	CLL	R421692
Selenium (Se)	<0.0001		0.0001	mg/L		18-JUL-06	CLL	R421692
Strontium (Sr)	<0.0001		0.0001	mg/L		18-JUL-06	CLL	R421692
Uranium (U)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Vanadium (V)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Zinc (Zn)	<0.0008		0.0008	mg/L		18-JUL-06	CLL	R421692
Ammonia-N	<0.005		0.005	mg/L		26-JUN-06	KMY	R413258
Phosphorus, Total	<0.001		0.001	mg/L		29-JUN-06	SHC	R414679
Total Organic Carbon	<1		1	mg/L		22-JUN-06	TL	R412024
Routine Water Analysis - Low Level								
Chloride (Cl)	<1		1	mg/L		22-JUN-06	WYA	R412079
ICP metals for routine water								
Calcium (Ca)	<0.5		0.5	mg/L		22-JUN-06	MLH	R412424
Potassium (K)	<0.1		0.1	mg/L		22-JUN-06	MLH	R412424
Magnesium (Mg)	<0.1		0.1	mg/L		22-JUN-06	MLH	R412424
Sodium (Na)	<1		1	mg/L		22-JUN-06	MLH	R412424
Ion Balance Calculation								
Ion Balance	Low TDS			%		23-JUN-06		
TDS (Calculated)	<1			mg/L		23-JUN-06		
Hardness (as CaCO3)	<1			mg/L		23-JUN-06		
Nitrate+Nitrite-N	<0.006		0.006	mg/L		21-JUN-06	KMY	R411915
Nitrate-N	<0.006		0.006	mg/L		21-JUN-06	KMY	R411915
Nitrite-N	<0.002		0.002	mg/L		21-JUN-06	KMY	R411915
Sulphate (SO4)	<0.05		0.05	mg/L		22-JUN-06	JTV	R412438
pH, Conductivity and Total Alkalinity								
pH	6.1		0.1	pH		22-JUN-06	JPA	R412639
Conductivity (EC)	1.1		0.2	uS/cm		22-JUN-06	JPA	R412639
Bicarbonate (HCO3)	<5		5	mg/L		22-JUN-06	JPA	R412639
Carbonate (CO3)	<5		5	mg/L		22-JUN-06	JPA	R412639
Hydroxide (OH)	<5		5	mg/L		22-JUN-06	JPA	R412639
Alkalinity, Total (as CaCO3)	<5		5	mg/L		22-JUN-06	JPA	R412639
L401711-10 TRIP BLANK MACTUNG								
Sampled By: SM/KL/JM/NJ on 17-JUN-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	<0.005		0.005	mg/L		21-JUL-06	SYF	R422347
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		18-JUL-06	CLL	R421692
Aluminum (Al)	<0.0003		0.0003	mg/L		18-JUL-06	CLL	R421692
Arsenic (As)	<0.00003		0.00003	mg/L		18-JUL-06	CLL	R421692
Boron (B)	<0.001		0.001	mg/L		18-JUL-06	CLL	R421692

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L401711-10 TRIP BLANK MACTUNG								
Sampled By: SM/KL/JM/NJ on 17-JUN-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals - Dissolved								
Barium (Ba)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Beryllium (Be)	<0.0002		0.0002	mg/L		18-JUL-06	CLL	R421692
Calcium (Ca)	<0.02		0.02	mg/L		18-JUL-06	CLL	R421692
Cadmium (Cd)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Cobalt (Co)	<0.0001		0.0001	mg/L		18-JUL-06	CLL	R421692
Chromium (Cr)	<0.00006		0.00006	mg/L		18-JUL-06	CLL	R421692
Copper (Cu)	<0.0006		0.0006	mg/L		18-JUL-06	CLL	R421692
Mercury (Hg)	<0.00002		0.00002	mg/L		18-JUL-06	CLL	R421692
Potassium (K)	<0.02		0.02	mg/L		18-JUL-06	CLL	R421692
Magnesium (Mg)	<0.004		0.004	mg/L		18-JUL-06	CLL	R421692
Manganese (Mn)	<0.0001		0.0001	mg/L		18-JUL-06	CLL	R421692
Molybdenum (Mo)	<0.00006		0.00006	mg/L		18-JUL-06	CLL	R421692
Sodium (Na)	<0.005		0.005	mg/L		18-JUL-06	CLL	R421692
Nickel (Ni)	<0.00006		0.00006	mg/L		18-JUL-06	CLL	R421692
Lead (Pb)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Antimony (Sb)	0.00037		0.00003	mg/L		18-JUL-06	CLL	R421692
Selenium (Se)	<0.0001		0.0001	mg/L		18-JUL-06	CLL	R421692
Strontium (Sr)	<0.0001		0.0001	mg/L		18-JUL-06	CLL	R421692
Uranium (U)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Vanadium (V)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Zinc (Zn)	<0.0008		0.0008	mg/L		18-JUL-06	CLL	R421692
Ultra-Low Metals								
Iron (Fe)	<0.005		0.005	mg/L		21-JUL-06	SYF	R422347
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		18-JUL-06	CLL	R421692
Aluminum (Al)	0.0020		0.0003	mg/L		18-JUL-06	CLL	R421692
Arsenic (As)	<0.00003		0.00003	mg/L		18-JUL-06	CLL	R421692
Boron (B)	<0.001		0.001	mg/L		18-JUL-06	CLL	R421692
Barium (Ba)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Beryllium (Be)	<0.0002		0.0002	mg/L		18-JUL-06	CLL	R421692
Calcium (Ca)	<0.02		0.02	mg/L		18-JUL-06	CLL	R421692
Cadmium (Cd)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Cobalt (Co)	<0.0001		0.0001	mg/L		18-JUL-06	CLL	R421692
Chromium (Cr)	<0.00006		0.00006	mg/L		18-JUL-06	CLL	R421692
Copper (Cu)	<0.0006		0.0006	mg/L		18-JUL-06	CLL	R421692
Mercury (Hg)	<0.00002		0.00002	mg/L		18-JUL-06	CLL	R421692
Potassium (K)	<0.02		0.02	mg/L		18-JUL-06	CLL	R421692
Magnesium (Mg)	<0.004		0.004	mg/L		18-JUL-06	CLL	R421692
Manganese (Mn)	<0.0001		0.0001	mg/L		18-JUL-06	CLL	R421692
Molybdenum (Mo)	<0.00006		0.00006	mg/L		18-JUL-06	CLL	R421692
Sodium (Na)	<0.005		0.005	mg/L		18-JUL-06	CLL	R421692
Nickel (Ni)	<0.00006		0.00006	mg/L		18-JUL-06	CLL	R421692
Lead (Pb)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Antimony (Sb)	0.00028		0.00003	mg/L		18-JUL-06	CLL	R421692
Selenium (Se)	<0.0001		0.0001	mg/L		18-JUL-06	CLL	R421692
Strontium (Sr)	0.0001		0.0001	mg/L		18-JUL-06	CLL	R421692
Uranium (U)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Vanadium (V)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Zinc (Zn)	0.0013		0.0008	mg/L		18-JUL-06	CLL	R421692

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L401711-10 TRIP BLANK MACTUNG								
Sampled By: SM/KL/JM/NJ on 17-JUN-06								
Matrix: WATER								
Ammonia-N	<0.005		0.005	mg/L		26-JUN-06	KMY	R413258
Phosphorus, Total	<0.001		0.001	mg/L		29-JUN-06	SHC	R414679
Total Organic Carbon	<1		1	mg/L		22-JUN-06	TL	R412024
Routine Water Analysis - Low Level								
Chloride (Cl)	<1		1	mg/L		22-JUN-06	WYA	R412079
ICP metals for routine water								
Calcium (Ca)	<0.5		0.5	mg/L		26-JUN-06	JWU	R413132
Potassium (K)	<0.1		0.1	mg/L		26-JUN-06	JWU	R413132
Magnesium (Mg)	<0.1		0.1	mg/L		26-JUN-06	JWU	R413132
Sodium (Na)	<1		1	mg/L		26-JUN-06	JWU	R413132
Ion Balance Calculation								
Ion Balance	Low TDS			%		26-JUN-06		
TDS (Calculated)	<1			mg/L		26-JUN-06		
Hardness (as CaCO3)	<1			mg/L		26-JUN-06		
Nitrate+Nitrite-N	<0.006		0.006	mg/L		21-JUN-06	KMY	R411915
Nitrate-N	<0.006		0.006	mg/L		21-JUN-06	KMY	R411915
Nitrite-N	<0.002		0.002	mg/L		21-JUN-06	KMY	R411915
Sulphate (SO4)	<0.05		0.05	mg/L		22-JUN-06	JTV	R412438
pH, Conductivity and Total Alkalinity								
pH	5.5		0.1	pH		22-JUN-06	JPA	R412639
Conductivity (EC)	1.1		0.2	uS/cm		22-JUN-06	JPA	R412639
Bicarbonate (HCO3)	<5		5	mg/L		22-JUN-06	JPA	R412639
Carbonate (CO3)	<5		5	mg/L		22-JUN-06	JPA	R412639
Hydroxide (OH)	<5		5	mg/L		22-JUN-06	JPA	R412639
Alkalinity, Total (as CaCO3)	<5		5	mg/L		22-JUN-06	JPA	R412639
L401711-11 FILTER BLANK MACTUNG								
Sampled By: SM/JM/NJ/KL on 10-JUN-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	<0.005		0.005	mg/L		21-JUL-06	SYF	R422347
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		18-JUL-06	CLL	R421692
Aluminum (Al)	0.0005		0.0003	mg/L		18-JUL-06	CLL	R421692
Arsenic (As)	<0.00003		0.00003	mg/L		18-JUL-06	CLL	R421692
Boron (B)	<0.001		0.001	mg/L		18-JUL-06	CLL	R421692
Barium (Ba)	0.00007		0.00005	mg/L		18-JUL-06	CLL	R421692
Beryllium (Be)	<0.0002		0.0002	mg/L		18-JUL-06	CLL	R421692
Calcium (Ca)	0.16		0.02	mg/L		18-JUL-06	CLL	R421692
Cadmium (Cd)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Cobalt (Co)	<0.0001		0.0001	mg/L		18-JUL-06	CLL	R421692
Chromium (Cr)	0.00007		0.00006	mg/L		18-JUL-06	CLL	R421692
Copper (Cu)	<0.0006		0.0006	mg/L		18-JUL-06	CLL	R421692
Mercury (Hg)	<0.00002		0.00002	mg/L		18-JUL-06	CLL	R421692
Potassium (K)	<0.02		0.02	mg/L		18-JUL-06	CLL	R421692
Magnesium (Mg)	0.004		0.004	mg/L		18-JUL-06	CLL	R421692
Manganese (Mn)	0.0002		0.0001	mg/L		18-JUL-06	CLL	R421692
Molybdenum (Mo)	<0.00006		0.00006	mg/L		18-JUL-06	CLL	R421692
Sodium (Na)	0.118		0.005	mg/L		18-JUL-06	CLL	R421692
Nickel (Ni)	0.00038		0.00006	mg/L		18-JUL-06	CLL	R421692
Lead (Pb)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Antimony (Sb)	0.00040		0.00003	mg/L		18-JUL-06	CLL	R421692

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L401711-11 FILTER BLANK MACTUNG								
Sampled By: SM/JM/NJ/KL on 10-JUN-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals - Dissolved								
Selenium (Se)	<0.0001		0.0001	mg/L		18-JUL-06	CLL	R421692
Strontium (Sr)	0.0003		0.0001	mg/L		18-JUL-06	CLL	R421692
Uranium (U)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Vanadium (V)	<0.00005		0.00005	mg/L		18-JUL-06	CLL	R421692
Zinc (Zn)	0.0072		0.0008	mg/L		18-JUL-06	CLL	R421692

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Preparation Method Reference(Based On)	Analytical Method Reference(Based On)
C-TOT-ORG-ED	Water	Total Organic Carbon		APHA 5310 B-Instrumental
CL-ED	Water	Chloride (Cl)		APHA 4500 Cl E-Colorimetry
ETL-ROUTINE-LOW-ED	Water	ICP metals for routine water		APHA 3120 B-ICP/OES
IONBALANCE-ED	Water	Ion Balance Calculation		APHA 1030E
MET1-EXT-LOW-ED	Water	Extractable Trace Metals (Low Level)		EPA 6020
MET1-TOT-LOW-ED	Water	Total Trace Metals (Low Level)	EPA3015	EPA 6020
MET1-ULTRA-DIS-ED	Water	Ultra-Low Metals - Dissolved		EPA 6020
MET1-ULTRA-ED	Water	Ultra-Low Metals		EPA 6020
MET2-EXT-ED	Water	Extractable Major Metals		EPA 200.7
MET2-TOT-LOW-ED	Water	Total Major Metals	EPA3015	EPA 200.7
MET2-ULTRA-DIS-ED	Water	Major Metals - Dissolved		EPA 200.7
MET2-ULTRA-ED	Water	Major Metals		EPA 200.7
N2N3-LOW-ED	Water	Nitrate+Nitrite-N		APHA 4500 NO3E-Colorimetry
NH4-LOW-ED	Water	Ammonia-N		APHA 4500 NH3F-Colorimetry
NO2-LOW-ED	Water	Nitrite-N		APHA 4500 NO2B-Colorimetry
NO3-LOW-ED	Water	Nitrate-N		APHA 4500 NO3H-Colorimetry
P-TOTAL-ED	Water	Phosphorus, Total		APHA 4500 P B,E-Auto-Colorimetry
P-TOTAL-LOW-ED	Water	Phosphorus, Total		APHA 4500 P B,E-Auto-Colorimetry
PH/EC/ALK-ED	Water	pH, Conductivity and Total Alkalinity		APHA 4500-H, 2510, 2320
SO4-LOW-ED	Water	Sulfate (SO4)		APHA 4110 B-Ion Chromatography

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

Chain of Custody numbers:

128064 246999

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
ED	ALS LABORATORY GROUP - EDMONTON, ALBERTA, CANADA		

Reference Information

GLOSSARY OF REPORT TERMS
Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.
The reported surrogate recovery value provides a measure of method efficiency. The Laboratory control limits are determined under column heading D.L.
mg/kg (units) - unit of concentration based on mass, parts per million.
mg/L (units) - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
UNLESS OTHERWISE STATED, SAMPLES ARE NOT CORRECTED FOR CLIENT FIELD BLANKS.
Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

ETL EnviroTest
A DIVISION OF ETL CHEMSPEC ANALYTICAL LIMITED

CHAIN OF CUSTODY / ANALYTICAL REQUEST FORM
CANADA TOLL FREE 1-800-668-9878

COC # 128064

www.envirotest.com

DATE: June 19/06

ETL LAB WORK ORDER # L 401711

REPORT TO:

COMPANY: EBA Engineering Consultants Ltd

CONTACT: Steve Moore

ADDRESS: 201, 4916 - 49 St
Yellowknife, NT X1A 2P1

PHONE: (867) 920-2287 FAX: (867) 873-3324

INVOICE TO: SAME (Y) N

COMPANY:

CONTACT:

ADDRESS:

PHONE: FAX:

REPORT DISTRIBUTION: ALL FINAL RESULTS WILL BE MAILED

EMAIL ☑ FAX ☐

EMAIL 1: SMoore@eba.ca

EMAIL 2: klangelois@eba.ca

SELECT: pdf ☐ digital ☐ both ☑

INDICATE BOTTLES: FILTERED/PRESERVED (F/P) ▶

JOB # 201-1200163.001

PO / AFE:

LSD:

QUOTE #

SERVICE REQUESTED

☑ REGULAR SERVICE (DEFAULT)

☐ PRIORITY SERVICE (50% SURCHARGE)

☐ EMERGENCY SERVICE (100% SURCHARGE)

ANALYSIS REQUEST

SAMPLE ID	SAMPLING LOCATION	SAMPLED BY / DATE / TIME	SAMPLING METHOD	SAMPLE TYPE	Nutrients	Routine	TDC	Total Metals	Dissolved Metals	HAZARDOUS? (Y/N)	NUMBER OF CONTAINERS	HIGHLY CONTAMINATED? (Y/N)	LAB SAMPLE #
Station 1	Mactung	SM/KL/JM/NJ/June15	Grab	Water	✓	✓	✓	✓	✓				
Station 1 Dup	"	" "	"	"	✓	✓	✓	✓	✓				
Station 2	"	" "	"	"	✓	✓	✓	✓	✓				
Station 3	"	" "	"	"	✓	✓	✓	✓	✓				
Station 4	"	" "	"	"	✓	✓	✓	✓	✓				
Station 5	"	SM/KL/JM/NJ/June17	"	"	✓	✓	✓	✓	✓				
Station 6	"	" "	"	"	✓	✓	✓	✓	✓				
Station 7	"	" "	"	"	✓	✓	✓	✓	✓				
Field Blank	"	" "	"	"	✓	✓	✓	✓	✓				
Trip Blank	"	" "	"	"	✓	✓	✓	✓	✓				

NOTES & CONDITIONS:
1. Quote number must be provided to ensure proper pricing.
2. Turnaround times will vary dependent on complexity of analysis & Lab workload at time of submission. Please contact the Lab to confirm turnaround time.
3. All hazardous samples submitted must be labeled to comply with WHMIS and TDG regulations. This must include the nature of the hazard, as well as a contact name & phone number that the Lab can contact for further information.

NOTE: Failure to properly complete all portions of this form may delay analysis.

GUIDELINES / REGULATIONS

CCME

SPECIAL INSTRUCTIONS / NATURE OF HAZARDOUS MATERIAL

Please filter the Dissolved Metal samples from Stations 6 & 7. These were not filtered in the field and no preservatives were added.

SAMPLE CONDITION

☐ FROZEN ☑ COLD ☑ AMBIENT

MEAN TEMPERATURE 7.6°C

RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:
			20-June-06
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:
			1054

SAMPLE CONDITION ACCEPTABLE UPON RECEIPT? (Y/N)

REFER TO BACK FOR SAMPLING INFORMATION & REGIONAL LOCATIONS

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REVISED FEBRUARY 2004

03003

Enviro-Test LABORATORIES

CHAIN OF CUSTODY / ANALYTICAL REQUEST FORM
CANADA TOLL FREE 1-800-668-9878

WWW.ENVIROTEST.COM

COC # 246999

DATE: June 19 /06

LAB WORK ORDER #

REPORT TO:
COMPANY: EBA Engineering
CONTACT: Steve Moore
ADDRESS: 201 4916 49st

PHONE: (867) 920-2287 FAX: (867) 873-3324
CELLPHONE:

INVOICE TO: SAME (Y) / N
COMPANY:
CONTACT:
ADDRESS:

PHONE: FAX:

REPORT DISTRIBUTION ALL FINAL RESULTS WILL BE MAILED
EMAIL ✓ FAX
EMAIL 1: smoore@eba.ca
EMAIL 2: klanglois@eba.ca
DIGITAL EMAIL:
SELECT: pdf digital both ✓

INDICATE BOTTLES: FILTERED/PRESERVED (F/P) ▶

JOB # 201-1200163.001
PO/AFE:
LSD:
QUOTE #

SERVICE REQUESTED
- ✓ REGULAR SERVICE (DEFAULT)
- PRIORITY SERVICE (50% SURCHARGE)
- EMERGENCY SERVICE (100% SURCHARGE)

ANALYSIS REQUEST

SAMPLE ID	SAMPLING LOCATION	SAMPLED BY / DATE / TIME	SAMPLING METHOD	SAMPLE TYPE	HAZARDOUS ?	NUMBER OF CONTAINERS	HIGHLY CONTAMINATED ?	LAB SAMPLE #
Filter Blank	Macturq	SM/JM/NJ/kl June 10						

GUIDELINES / REGULATIONS
CCME

SPECIAL INSTRUCTIONS / NATURE OF HAZARDOUS MATERIAL

SAMPLE CONDITION
- FROZEN
- COLD
- AMBIENT

MEAN TEMPERATURE

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RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	SAMPLE CONDITION ACCEPTABLE UPON RECEIPT ? (Y/N)
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	

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CHAIN OF CUSTODY / ANALYTICAL REQUEST FORM
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COC # 128064

www.envirotest.com

DATE: June 19/06

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REPORT TO:

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CONTACT: Steve Moore

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Yellowknife, NT X1A 2P1

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JOB # 201-1200163.001

PO / AFE:

LSD:

QUOTE #

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☐ PRIORITY SERVICE (50% SURCHARGE)

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SAMPLE ID	SAMPLING LOCATION	SAMPLED BY / DATE / TIME	SAMPLING METHOD	SAMPLE TYPE	Nutrients	Routine	TDC	Total Metals	Dissolved Metals	HAZARDOUS? (Y/N)	NUMBER OF CONTAINERS	HIGHLY CONTAMINATED? (Y/N)	LAB SAMPLE #
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Station 1 Dup	"	" "	"	"	✓	✓	✓	✓	✓				
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Station 3	"	" "	"	"	✓	✓	✓	✓	✓				
Station 4	"	" "	"	"	✓	✓	✓	✓	✓				
Station 5	"	SM/KL/JM/NJ/June17	"	"	✓	✓	✓	✓	✓				
Station 6	"	" "	"	"	✓	✓	✓	✓	✓				
Station 7	"	" "	"	"	✓	✓	✓	✓	✓				
Field Blank	"	" "	"	"	✓	✓	✓	✓	✓				
Trip Blank	"	" "	"	"	✓	✓	✓	✓	✓				

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GUIDELINES / REGULATIONS

CCME

SPECIAL INSTRUCTIONS / NATURE OF HAZARDOUS MATERIAL

Please filter the Dissolved Metal samples from Stations 6 & 7. These were not filtered in the field and no preservatives were added.

SAMPLE CONDITION

☐ FROZEN ☑ COLD ☑ AMBIENT

MEAN TEMPERATURE 7.6°C

RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:
			20-June-06
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:
			1054

SAMPLE CONDITION ACCEPTABLE UPON RECEIPT? (Y/N)

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JOB # 201-1200163.001
PO/AFE:
LSD:
QUOTE #

SERVICE REQUESTED
- ✓ REGULAR SERVICE (DEFAULT)
- PRIORITY SERVICE (50% SURCHARGE)
- EMERGENCY SERVICE (100% SURCHARGE)

ANALYSIS REQUEST

SAMPLE ID	SAMPLING LOCATION	SAMPLED BY / DATE / TIME	SAMPLING METHOD	SAMPLE TYPE	HAZARDOUS ?	NUMBER OF CONTAINERS	HIGHLY CONTAMINATED ?	LAB SAMPLE #
Filter Blank	Macturq	SM/JM/NJ/kl June 10						

GUIDELINES / REGULATIONS
CCME

SPECIAL INSTRUCTIONS / NATURE OF HAZARDOUS MATERIAL

SAMPLE CONDITION
- FROZEN
- COLD
- AMBIENT

MEAN TEMPERATURE

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RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	SAMPLE CONDITION ACCEPTABLE UPON RECEIPT ? (Y/N)
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	

ALS Laboratory Group
A Division of ETL Chemspec Analytical Limited
Toll Free1-800-668-9878
9936-67 Avenue, Edmonton, AB T6E 0P5
Phone: +1 780 413 5227 Fax: +1 780 437 2311 www.alsglobal.com

ALS LABORATORY GROUP ANALYTICAL CONFIRMATION SHEET

Company:	EBA ENG CONSULTANTS LTD
ATTN:	STEVE MOORE
Fax Number:	867-873-3324
Project Manager:	KAREN HUEBNER
Job Reference:	1200163.005
Project P.O. #:	
Date Sampled:	08-JUL-06
Date Received:	11-JUL-06
Estimated Completion Date:	24-JUL-06
Sampled By:	SM
Workorder #:	**L409286**
Chain of Custody #:	153693 58042

Sample #/SampleID/SampledBy/DateDue: L409286-1/STATION 1 MACTUNG/SM/24-JUL-06

Matrix	Product Description	Product Due*
Water	Silicon (Si)-Dissolved	
Water	Silicon (Si)-Total	
Water	Ammonia-N	
Water	Bismuth (Bi)	
Water	Lithium (Li)	
Water	Tin (Sn)	
Water	Ultra-Low Metals	
	Ultra-Low Metals	
	Major Metals	
	Metal Setup (Ultra-Low ICPMS)	
Water	Metal Setup (ICPOES)	
Water	Phosphorus, Total	
Water	Bismuth (Bi)-Dissolved	
Water	Lithium (Li)-Dissolved	
Misc.	Handling/Disposal Fee	
Water	Tin (Sn)-Dissolved	
Water	Total Organic Carbon	
Water	Ultra-Low Metals - Dissolved	
	Ultra-Low Metals - Dissolved	
	Major Metals - Dissolved	
	Metal Setup (Ultra-Low ICPMS)	
Water	Redox Potential	
Water	Routine Water: Major Ions,F,Fe,Mn - Low	
	Chloride (Cl)	
	ICP metals for routine water	
	Fluoride (F)	
	Iron (Fe)-Extractable	
	Ion Balance Calculation	
	Manganese (Mn)-Extractable	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
	Sulfate (SO4)	

Sample #/SampleID/SampledBy/DateDue: L409286-2/STATION 2 MACTUNG/SM/24-JUL-06

Matrix	Product Description	Product Due*
Water	Silicon (Si)-Dissolved	
Water	Silicon (Si)-Total	
Water	Ammonia-N	
Water	Bismuth (Bi)	
Water	Lithium (Li)	
Water	Tin (Sn)	
Water	Ultra-Low Metals	
	Ultra-Low Metals	
	Major Metals	
	Metal Setup (Ultra-Low ICPMS)	
Water	Metal Setup (ICPOES)	
Water	Phosphorus, Total	
Water	Bismuth (Bi)-Dissolved	
Water	Lithium (Li)-Dissolved	
Misc.	Handling/Disposal Fee	
Water	Tin (Sn)-Dissolved	
Water	Total Organic Carbon	
Water	Ultra-Low Metals - Dissolved	
	Ultra-Low Metals - Dissolved	
	Major Metals - Dissolved	
	Metal Setup (Ultra-Low ICPMS)	
Water	Redox Potential	
Water	Routine Water: Major Ions,F,Fe,Mn - Low	
	Chloride (Cl)	
	ICP metals for routine water	
	Fluoride (F)	
	Iron (Fe)-Extractable	
	Ion Balance Calculation	
	Manganese (Mn)-Extractable	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
	Sulfate (SO4)	

Sample #/SampleID/SampledBy/DateDue: L409286-3/STATION 3 MACTUNG/SM/24-JUL-06

Matrix	Product Description	Product Due*
Water	Silicon (Si)-Dissolved	
Water	Silicon (Si)-Total	
Water	Ammonia-N	
Water	Bismuth (Bi)	
Water	Lithium (Li)	
Water	Tin (Sn)	
Water	Ultra-Low Metals	
	Ultra-Low Metals	
	Major Metals	
	Metal Setup (Ultra-Low ICPMS)	
Water	Metal Setup (ICPOES)	
Water	Phosphorus, Total	
Water	Bismuth (Bi)-Dissolved	
Water	Lithium (Li)-Dissolved	
Misc.	Handling/Disposal Fee	

Water	Tin (Sn)-Dissolved
Water	Total Organic Carbon
Water	Ultra-Low Metals - Dissolved
	Ultra-Low Metals - Dissolved
	Major Metals - Dissolved
	Metal Setup (Ultra-Low ICPMS)
Water	Redox Potential
Water	Routine Water: Major Ions,F,Fe,Mn - Low
	Chloride (Cl)
	ICP metals for routine water
	Fluoride (F)
	Iron (Fe)-Extractable
	Ion Balance Calculation
	Manganese (Mn)-Extractable
	Nitrate+Nitrite-N
	Nitrite-N
	Nitrate-N
	pH, Conductivity and Total Alkalinity
	Sulfate (SO4)

Sample #/SampleID/SampledBy/DateDue: L409286-4/STATION 3 DUPLICATE MACTUNG/SM/24-JUL-06

Matrix	Product Description	Product Due*
Water	Silicon (Si)-Dissolved	
Water	Silicon (Si)-Total	
Water	Ammonia-N	
Water	Bismuth (Bi)	
Water	Lithium (Li)	
Water	Tin (Sn)	
Water	Ultra-Low Metals	
	Ultra-Low Metals	
	Major Metals	
	Metal Setup (Ultra-Low ICPMS)	
Water	Metal Setup (ICPOES)	
Water	Phosphorus, Total	
Water	Bismuth (Bi)-Dissolved	
Water	Lithium (Li)-Dissolved	
Misc.	Handling/Disposal Fee	
Water	Tin (Sn)-Dissolved	
Water	Total Organic Carbon	
Water	Ultra-Low Metals - Dissolved	
	Ultra-Low Metals - Dissolved	
	Major Metals - Dissolved	
	Metal Setup (Ultra-Low ICPMS)	
Water	Redox Potential	
Water	Routine Water: Major Ions,F,Fe,Mn - Low	
	Chloride (Cl)	
	ICP metals for routine water	
	Fluoride (F)	
	Iron (Fe)-Extractable	
	Ion Balance Calculation	
	Manganese (Mn)-Extractable	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	

	pH, Conductivity and Total Alkalinity
	Sulfate (SO4)

Sample #/SampleID/SampledBy/DateDue: L409286-5/STATION 4 MACTUNG/SM/24-JUL-06

Matrix	Product Description	Product Due*
Water	Silicon (Si)-Dissolved	
Water	Silicon (Si)-Total	
Water	Ammonia-N	
Water	Bismuth (Bi)	
Water	Lithium (Li)	
Water	Tin (Sn)	
Water	Ultra-Low Metals	
	Ultra-Low Metals	
	Major Metals	
	Metal Setup (Ultra-Low ICPMS)	
Water	Metal Setup (ICPOES)	
Water	Phosphorus, Total	
Water	Bismuth (Bi)-Dissolved	
Water	Lithium (Li)-Dissolved	
Misc.	Handling/Disposal Fee	
Water	Tin (Sn)-Dissolved	
Water	Total Organic Carbon	
Water	Ultra-Low Metals - Dissolved	
	Ultra-Low Metals - Dissolved	
	Major Metals - Dissolved	
	Metal Setup (Ultra-Low ICPMS)	
Water	Redox Potential	
Water	Routine Water: Major Ions,F,Fe,Mn - Low	
	Chloride (Cl)	
	ICP metals for routine water	
	Fluoride (F)	
	Iron (Fe)-Extractable	
	Ion Balance Calculation	
	Manganese (Mn)-Extractable	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
	Sulfate (SO4)	

Sample #/SampleID/SampledBy/DateDue: L409286-6/STATION 5 MACTUNG/SM/24-JUL-06

Matrix	Product Description	Product Due*
Water	Silicon (Si)-Dissolved	
Water	Silicon (Si)-Total	
Water	Ammonia-N	
Water	Bismuth (Bi)	
Water	Lithium (Li)	
Water	Tin (Sn)	
Water	Ultra-Low Metals	
	Ultra-Low Metals	
	Major Metals	

	Metal Setup (Ultra-Low ICPMS)
Water	Metal Setup (ICPOES)
Water	Phosphorus, Total
Water	Bismuth (Bi)-Dissolved
Water	Lithium (Li)-Dissolved
Misc.	Handling/Disposal Fee
Water	Tin (Sn)-Dissolved
Water	Total Organic Carbon
Water	Ultra-Low Metals - Dissolved
	Ultra-Low Metals - Dissolved
	Major Metals - Dissolved
	Metal Setup (Ultra-Low ICPMS)
Water	Redox Potential
Water	Routine Water: Major Ions,F,Fe,Mn - Low
	Chloride (Cl)
	ICP metals for routine water
	Fluoride (F)
	Iron (Fe)-Extractable
	Ion Balance Calculation
	Manganese (Mn)-Extractable
	Nitrate+Nitrite-N
	Nitrite-N
	Nitrate-N
	pH, Conductivity and Total Alkalinity
	Sulfate (SO4)

Sample #/SampleID/SampledBy/DateDue: L409286-7/STATION 6 MACTUNG/SM/24-JUL-06

Matrix	Product Description	Product Due*
Water	Silicon (Si)-Dissolved	
Water	Silicon (Si)-Total	
Water	Ammonia-N	
Water	Bismuth (Bi)	
Water	Lithium (Li)	
Water	Tin (Sn)	
Water	Ultra-Low Metals	
	Ultra-Low Metals	
	Major Metals	
	Metal Setup (Ultra-Low ICPMS)	
Water	Metal Setup (ICPOES)	
Water	Phosphorus, Total	
Water	Bismuth (Bi)-Dissolved	
Water	Lithium (Li)-Dissolved	
Misc.	Handling/Disposal Fee	
Water	Tin (Sn)-Dissolved	
Water	Total Organic Carbon	
Water	Ultra-Low Metals - Dissolved	
	Ultra-Low Metals - Dissolved	
	Major Metals - Dissolved	
	Metal Setup (Ultra-Low ICPMS)	
Water	Redox Potential	
Water	Routine Water: Major Ions,F,Fe,Mn - Low	
	Chloride (Cl)	
	ICP metals for routine water	

Fluoride (F)
Iron (Fe)-Extractable
Ion Balance Calculation
Manganese (Mn)-Extractable
Nitrate+Nitrite-N
Nitrite-N
Nitrate-N
pH, Conductivity and Total Alkalinity
Sulfate (SO4)

Sample #/SampleID/SampledBy/DateDue: L409286-8/STATION 7 MACTUNG/SM/24-JUL-06

Matrix	Product Description	Product Due*
Water	Silicon (Si)-Dissolved	
Water	Silicon (Si)-Total	
Water	Ammonia-N	
Water	Bismuth (Bi)	
Water	Lithium (Li)	
Water	Tin (Sn)	
Water	Ultra-Low Metals	
	Ultra-Low Metals	
	Major Metals	
	Metal Setup (Ultra-Low ICPMS)	
Water	Metal Setup (ICPOES)	
Water	Phosphorus, Total	
Water	Bismuth (Bi)-Dissolved	
Water	Lithium (Li)-Dissolved	
Misc.	Handling/Disposal Fee	
Water	Tin (Sn)-Dissolved	
Water	Total Organic Carbon	
Water	Ultra-Low Metals - Dissolved	
	Ultra-Low Metals - Dissolved	
	Major Metals - Dissolved	
	Metal Setup (Ultra-Low ICPMS)	
Water	Redox Potential	
Water	Routine Water: Major Ions,F,Fe,Mn - Low	
	Chloride (Cl)	
	ICP metals for routine water	
	Fluoride (F)	
	Iron (Fe)-Extractable	
	Ion Balance Calculation	
	Manganese (Mn)-Extractable	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
	Sulfate (SO4)	

Sample #/SampleID/SampledBy/DateDue: L409286-9/STATION 8 MACTUNG/SM/24-JUL-06

Matrix	Product Description	Product Due*
Water	Silicon (Si)-Dissolved	
Water	Silicon (Si)-Total	
Water	Ammonia-N	
Water	Bismuth (Bi)	

Water	Lithium (Li)
Water	Tin (Sn)
Water	Ultra-Low Metals
	Ultra-Low Metals
	Major Metals
	Metal Setup (Ultra-Low ICPMS)
Water	Metal Setup (ICPOES)
Water	Phosphorus, Total
Water	Bismuth (Bi)-Dissolved
Water	Lithium (Li)-Dissolved
Misc.	Handling/Disposal Fee
Water	Tin (Sn)-Dissolved
Water	Total Organic Carbon
Water	Ultra-Low Metals - Dissolved
	Ultra-Low Metals - Dissolved
	Major Metals - Dissolved
	Metal Setup (Ultra-Low ICPMS)
Water	Redox Potential
Water	Routine Water: Major Ions,F,Fe,Mn - Low
	Chloride (Cl)
	ICP metals for routine water
	Fluoride (F)
	Iron (Fe)-Extractable
	Ion Balance Calculation
	Manganese (Mn)-Extractable
	Nitrate+Nitrite-N
	Nitrite-N
	Nitrate-N
	pH, Conductivity and Total Alkalinity
	Sulfate (SO4)

Sample #/SampleID/SampledBy/DateDue: L409286-10/STATION 8 DUPLICATE MACTUNG/SM/24-JUL-06

Matrix	Product Description	Product Due*
Water	Silicon (Si)-Dissolved	
Water	Silicon (Si)-Total	
Water	Ammonia-N	
Water	Bismuth (Bi)	
Water	Lithium (Li)	
Water	Tin (Sn)	
Water	Ultra-Low Metals	
	Ultra-Low Metals	
	Major Metals	
	Metal Setup (Ultra-Low ICPMS)	
Water	Metal Setup (ICPOES)	
Water	Phosphorus, Total	
Water	Bismuth (Bi)-Dissolved	
Water	Lithium (Li)-Dissolved	
Misc.	Handling/Disposal Fee	
Water	Tin (Sn)-Dissolved	
Water	Total Organic Carbon	
Water	Ultra-Low Metals - Dissolved	
	Ultra-Low Metals - Dissolved	
	Major Metals - Dissolved	
	Metal Setup (Ultra-Low ICPMS)	

Water	Redox Potential
Water	Routine Water: Major Ions,F,Fe,Mn - Low
	Chloride (Cl)
	ICP metals for routine water
	Fluoride (F)
	Iron (Fe)-Extractable
	Ion Balance Calculation
	Manganese (Mn)-Extractable
	Nitrate+Nitrite-N
	Nitrite-N
	Nitrate-N
	pH, Conductivity and Total Alkalinity
	Sulfate (SO4)

Sample #/SampleID/SampledBy/DateDue: L409286-11/FIELD BLANK MACTUNG/SM/24-JUL-06

Matrix	Product Description	Product Due*
Water	Silicon (Si)-Dissolved	
Water	Silicon (Si)-Total	
Water	Ammonia-N	
Water	Bismuth (Bi)	
Water	Lithium (Li)	
Water	Tin (Sn)	
Water	Ultra-Low Metals	
	Ultra-Low Metals	
	Major Metals	
	Metal Setup (Ultra-Low ICPMS)	
Water	Metal Setup (ICPOES)	
Water	Phosphorus, Total	
Water	Bismuth (Bi)-Dissolved	
Water	Lithium (Li)-Dissolved	
Misc.	Handling/Disposal Fee	
Water	Tin (Sn)-Dissolved	
Water	Total Organic Carbon	
Water	Ultra-Low Metals - Dissolved	
	Ultra-Low Metals - Dissolved	
	Major Metals - Dissolved	
	Metal Setup (Ultra-Low ICPMS)	
Water	Redox Potential	
Water	Routine Water: Major Ions,F,Fe,Mn - Low	
	Chloride (Cl)	
	ICP metals for routine water	
	Fluoride (F)	
	Iron (Fe)-Extractable	
	Ion Balance Calculation	
	Manganese (Mn)-Extractable	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
	Sulfate (SO4)	

Sample #/SampleID/SampledBy/DateDue: L409286-12/TRIP BLANK MACTUNG/SM/24-JUL-06

Matrix	Product Description	Product Due*
Water	Silicon (Si)-Dissolved	
Water	Silicon (Si)-Total	
Water	Ammonia-N	
Water	Bismuth (Bi)	
Water	Lithium (Li)	
Water	Tin (Sn)	
Water	Ultra-Low Metals	
	Ultra-Low Metals	
	Major Metals	
	Metal Setup (Ultra-Low ICPMS)	
Water	Metal Setup (ICPOES)	
Water	Phosphorus, Total	
Water	Bismuth (Bi)-Dissolved	
Water	Lithium (Li)-Dissolved	
Misc.	Handling/Disposal Fee	
Water	Tin (Sn)-Dissolved	
Water	Total Organic Carbon	
Water	Ultra-Low Metals - Dissolved	
	Ultra-Low Metals - Dissolved	
	Major Metals - Dissolved	
	Metal Setup (Ultra-Low ICPMS)	
Water	Redox Potential	
Water	Routine Water: Major Ions,F,Fe,Mn - Low	
	Chloride (Cl)	
	ICP metals for routine water	
	Fluoride (F)	
	Iron (Fe)-Extractable	
	Ion Balance Calculation	
	Manganese (Mn)-Extractable	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
	Sulfate (SO4)	

Sample #/SampleID/SampledBy/DateDue: L409286-13/FILTER BLANK MACTUNG/SM/24-JUL-06

Matrix	Product Description	Product Due*
Water	Silicon (Si)-Dissolved	
Water	Silicon (Si)-Total	
Water	Bismuth (Bi)	
Water	Lithium (Li)	
Water	Tin (Sn)	
Water	Ultra-Low Metals	
	Ultra-Low Metals	
	Major Metals	
	Metal Setup (Ultra-Low ICPMS)	
Water	Metal Setup (ICPOES)	
Water	Bismuth (Bi)-Dissolved	
Water	Lithium (Li)-Dissolved	
Misc.	Handling/Disposal Fee	
Water	Tin (Sn)-Dissolved	
Water	Ultra-Low Metals - Dissolved	

Ultra-Low Metals - Dissolved
Major Metals - Dissolved
Metal Setup (Ultra-Low ICPMS)

* INDICATES ESTIMATED COMPLETION DATE OF REQUESTED PRODUCT IF DIFFERENT THAN THE ESTIMATED COMPLETION DATE.

ALS Laboratory Group strives to deliver on-time results to our clients at all times. However, there are times when, due to capacity issues or other unforeseen circumstances, we are unable to meet our expected TATs. The information above is related to a recent workorder you have submitted to our laboratory. We have also included a summary on the parameters of interest for this workorder. In the event that you have an inquiry, please refer to the Work Order # (L+6 digits) when calling the Project Manager.

PRELIMINARY RESULTS

EBA ENG CONSULTANTS LTD
ATTN: STEVE MOORE
Reported On: 04-AUG-06 03:17 PM

201-4916 49 STREET

YELLOWKNIFE NT X1A 2P7

Lab Work Order #: **L409286** **Date Received:** **11-JUL-06**

Project P.O. #:
Job Reference: 1200163.005
Legal Site Desc:
CofC Numbers: 153693, 58042

Other Information:

Comments: L409286-1, L409286-3, L409286-4, L409286-5, L409286-6, L409286-7, L409286-8; Analysis of total metals was changed from ultra low level to low level because sample contained too many suspended solids.

ROY JONES
General Manager

For any questions about this report please contact your Account Manager:

CATHERINE EVARISTO-CORDERO

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L409286-1 STATION 1 MACTUNG								
Sampled By: SM on 08-JUL-06 @ 17:00								
Matrix:								
Total Metals								
Total Major Metals								
Calcium (Ca)	26.5		0.5	mg/L		26-JUL-06	DDN	R423910
Potassium (K)	0.7		0.1	mg/L		26-JUL-06	DDN	R423910
Magnesium (Mg)	2.3		0.1	mg/L		26-JUL-06	DDN	R423910
Sodium (Na)	1		1	mg/L		26-JUL-06	DDN	R423910
Iron (Fe)	0.217		0.005	mg/L		26-JUL-06	DDN	R423910
Manganese (Mn)	0.057		0.001	mg/L		26-JUL-06	DDN	R423910
Total Trace Metals (Low Level)								
Silver (Ag)	<0.0004		0.0004	mg/L		24-JUL-06	QLI	R423033
Aluminum (Al)	0.53		0.02	mg/L		24-JUL-06	QLI	R423033
Arsenic (As)	0.0031		0.0004	mg/L		24-JUL-06	QLI	R423033
Boron (B)	<0.02		0.02	mg/L		24-JUL-06	QLI	R423033
Barium (Ba)	0.0465		0.0002	mg/L		24-JUL-06	QLI	R423033
Beryllium (Be)	<0.001		0.001	mg/L		24-JUL-06	QLI	R423033
Bismuth (Bi)	<0.0001		0.0001	mg/L		24-JUL-06	QLI	R423033
Cadmium (Cd)	0.0006		0.0002	mg/L		24-JUL-06	QLI	R423033
Cobalt (Co)	0.0024		0.0002	mg/L		24-JUL-06	QLI	R423033
Chromium (Cr)	<0.0008		0.0008	mg/L		24-JUL-06	QLI	R423033
Copper (Cu)	0.006		0.001	mg/L		24-JUL-06	QLI	R423033
Molybdenum (Mo)	0.0032		0.0001	mg/L		24-JUL-06	QLI	R423033
Nickel (Ni)	0.0176		0.0002	mg/L		24-JUL-06	QLI	R423033
Lead (Pb)	0.0002		0.0001	mg/L		24-JUL-06	QLI	R423033
Antimony (Sb)	0.0005		0.0004	mg/L		24-JUL-06	QLI	R423033
Selenium (Se)	0.0012		0.0004	mg/L		24-JUL-06	QLI	R423033
Tin (Sn)	<0.0004		0.0004	mg/L		24-JUL-06	QLI	R423033
Strontium (Sr)	0.0845		0.0002	mg/L		24-JUL-06	QLI	R423033
Titanium (Ti)	0.008		0.005	mg/L		24-JUL-06	QLI	R423033
Thallium (Tl)	<0.0001		0.0001	mg/L		24-JUL-06	QLI	R423033
Uranium (U)	0.0017		0.0001	mg/L		24-JUL-06	QLI	R423033
Vanadium (V)	0.0022		0.0002	mg/L		24-JUL-06	QLI	R423033
Zinc (Zn)	0.069		0.004	mg/L		24-JUL-06	QLI	R423033
Ultra-Low Metals - Dissolved								
Iron (Fe)	<0.005		0.005	mg/L		31-JUL-06	DDN	R425558
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Aluminum (Al)	0.105		0.0003	mg/L		21-JUL-06	CLL	R423030
Arsenic (As)	0.00180		0.00003	mg/L		21-JUL-06	CLL	R423030
Boron (B)	0.003		0.001	mg/L		21-JUL-06	CLL	R423030
Barium (Ba)	0.0210		0.00005	mg/L		21-JUL-06	CLL	R423030
Beryllium (Be)	<0.0002		0.0002	mg/L		21-JUL-06	CLL	R423030
Calcium (Ca)	24.2		0.02	mg/L		21-JUL-06	CLL	R423030
Cadmium (Cd)	0.00052		0.00005	mg/L		21-JUL-06	CLL	R423030
Cobalt (Co)	0.0016		0.0001	mg/L		21-JUL-06	CLL	R423030
Chromium (Cr)	0.00036		0.00006	mg/L		21-JUL-06	CLL	R423030
Copper (Cu)	0.0024		0.0006	mg/L		21-JUL-06	CLL	R423030
Mercury (Hg)	<0.00002		0.00002	mg/L		21-JUL-06	CLL	R423030
Potassium (K)	0.55		0.02	mg/L		21-JUL-06	CLL	R423030
Magnesium (Mg)	2.41		0.004	mg/L		21-JUL-06	CLL	R423030
Manganese (Mn)	0.0394		0.0001	mg/L		21-JUL-06	CLL	R423030
Molybdenum (Mo)	0.00275		0.00006	mg/L		21-JUL-06	CLL	R423030
Sodium (Na)	0.848		0.005	mg/L		21-JUL-06	CLL	R423030
Nickel (Ni)	0.0145		0.00006	mg/L		21-JUL-06	CLL	R423030

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L409286-1 STATION 1 MACTUNG								
Sampled By: SM on 08-JUL-06 @ 17:00								
Matrix:								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals - Dissolved								
Lead (Pb)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Antimony (Sb)	0.00038		0.00003	mg/L		21-JUL-06	CLL	R423030
Selenium (Se)	0.0017		0.0001	mg/L		21-JUL-06	CLL	R423030
Strontium (Sr)	0.0687		0.0001	mg/L		21-JUL-06	CLL	R423030
Uranium (U)	0.00074		0.00005	mg/L		21-JUL-06	CLL	R423030
Vanadium (V)	0.00037		0.00005	mg/L		21-JUL-06	CLL	R423030
Zinc (Zn)	0.0550		0.0008	mg/L		21-JUL-06	CLL	R423030
Ammonia-N	<0.005		0.005	mg/L		18-JUL-06	LDC	R420878
Bismuth (Bi)	<0.00003		0.00003	mg/L		21-JUL-06	CLL	R423030
Lithium (Li)	0.0016		0.0001	mg/L		21-JUL-06	CLL	R423030
Lithium (Li)-Total	<0.006		0.006	mg/L		24-JUL-06	QLI	R423033
Phosphorus, Total	0.023		0.001	mg/L		21-JUL-06	SHC	R422231
Redox Potential	128		0	mV		12-JUL-06	BOC	R419264
Silicon (Si)-Dissolved	2.1		0.1	mg/L		31-JUL-06	DDN	R425558
Silicon (Si)-Total	2.2		0.1	mg/L		26-JUL-06	DDN	R423910
Tin (Sn)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Total Organic Carbon	0.8		0.5	mg/L		13-JUL-06	ZOW	R418884
Routine Water: Major Ions,F,Fe,Mn - Low								
Chloride (Cl)	<1		1	mg/L		12-JUL-06	WYA	R418798
Fluoride (F)	0.12		0.05	mg/L		12-JUL-06	PTT	R419017
ICP metals for routine water								
Calcium (Ca)	27.6		0.5	mg/L		12-JUL-06	MLH	R418687
Potassium (K)	0.6		0.1	mg/L		12-JUL-06	MLH	R418687
Magnesium (Mg)	2.1		0.1	mg/L		12-JUL-06	MLH	R418687
Sodium (Na)	<1		1	mg/L		12-JUL-06	MLH	R418687
Ion Balance Calculation								
Ion Balance	90.2			%		14-JUL-06		
TDS (Calculated)	103			mg/L		14-JUL-06		
Hardness (as CaCO3)	78			mg/L		14-JUL-06		
Iron (Fe)-Extractable	0.014		0.005	mg/L		12-JUL-06	HAS	R418849
Manganese (Mn)-Extractable	0.042		0.001	mg/L		12-JUL-06	HAS	R418849
Nitrate+Nitrite-N	0.050		0.006	mg/L		11-JUL-06	KMY	R418785
Nitrate-N	0.050		0.006	mg/L		11-JUL-06	KMY	R418785
Nitrite-N	<0.002		0.002	mg/L		11-JUL-06	KMY	R418785
Sulphate (SO4)	54.5		0.05	mg/L		12-JUL-06	JWU	R418352
pH, Conductivity and Total Alkalinity								
pH	7.7		0.1	pH		12-JUL-06	PTT	R419017
Conductivity (EC)	174		0.2	uS/cm		12-JUL-06	PTT	R419017
Bicarbonate (HCO3)	36		5	mg/L		12-JUL-06	PTT	R419017
Carbonate (CO3)	<5		5	mg/L		12-JUL-06	PTT	R419017
Hydroxide (OH)	<5		5	mg/L		12-JUL-06	PTT	R419017
Alkalinity, Total (as CaCO3)	30		5	mg/L		12-JUL-06	PTT	R419017
L409286-2 STATION 2 MACTUNG								
Sampled By: SM on 09-JUL-06 @ 17:00								
Matrix:								
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.123		0.005	mg/L		31-JUL-06	DDN	R425558
Ultra-Low Metals - Dissolved								

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L409286-2 STATION 2 MACTUNG								
Sampled By: SM on 09-JUL-06 @ 17:00								
Matrix:								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Aluminum (Al)	0.0201		0.0003	mg/L		21-JUL-06	CLL	R423030
Arsenic (As)	0.00015		0.00003	mg/L		21-JUL-06	CLL	R423030
Boron (B)	0.002		0.001	mg/L		21-JUL-06	CLL	R423030
Barium (Ba)	0.0335		0.00005	mg/L		21-JUL-06	CLL	R423030
Beryllium (Be)	<0.0002		0.0002	mg/L		21-JUL-06	CLL	R423030
Calcium (Ca)	22.9		0.02	mg/L		21-JUL-06	CLL	R423030
Cadmium (Cd)	0.00339		0.00005	mg/L		21-JUL-06	CLL	R423030
Cobalt (Co)	0.0061		0.0001	mg/L		21-JUL-06	CLL	R423030
Chromium (Cr)	0.00011		0.00006	mg/L		21-JUL-06	CLL	R423030
Copper (Cu)	0.0037		0.0006	mg/L		21-JUL-06	CLL	R423030
Mercury (Hg)	<0.00002		0.00002	mg/L		21-JUL-06	CLL	R423030
Potassium (K)	0.43		0.02	mg/L		21-JUL-06	CLL	R423030
Magnesium (Mg)	6.01		0.004	mg/L		21-JUL-06	CLL	R423030
Manganese (Mn)	0.0844		0.0001	mg/L		21-JUL-06	CLL	R423030
Molybdenum (Mo)	0.00134		0.00006	mg/L		21-JUL-06	CLL	R423030
Sodium (Na)	0.595		0.005	mg/L		21-JUL-06	CLL	R423030
Nickel (Ni)	0.0561		0.00006	mg/L		21-JUL-06	CLL	R423030
Lead (Pb)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Antimony (Sb)	0.00023		0.00003	mg/L		21-JUL-06	CLL	R423030
Selenium (Se)	0.0020		0.0001	mg/L		21-JUL-06	CLL	R423030
Strontium (Sr)	0.0863		0.0001	mg/L		21-JUL-06	CLL	R423030
Uranium (U)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Vanadium (V)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Zinc (Zn)	0.171		0.0008	mg/L		21-JUL-06	CLL	R423030
Ultra-Low Metals								
Iron (Fe)	0.780		0.005	mg/L		31-JUL-06	DDN	R425558
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Aluminum (Al)	2.02		0.0003	mg/L		21-JUL-06	CLL	R423030
Arsenic (As)	0.00127		0.00003	mg/L		21-JUL-06	CLL	R423030
Boron (B)	0.001		0.001	mg/L		21-JUL-06	CLL	R423030
Barium (Ba)	0.0366		0.00005	mg/L		21-JUL-06	CLL	R423030
Beryllium (Be)	0.0002		0.0002	mg/L		21-JUL-06	CLL	R423030
Calcium (Ca)	23.0		0.02	mg/L		21-JUL-06	CLL	R423030
Cadmium (Cd)	0.00361		0.00005	mg/L		21-JUL-06	CLL	R423030
Cobalt (Co)	0.0063		0.0001	mg/L		21-JUL-06	CLL	R423030
Chromium (Cr)	0.00047		0.00006	mg/L		21-JUL-06	CLL	R423030
Copper (Cu)	0.0208		0.0006	mg/L		21-JUL-06	CLL	R423030
Mercury (Hg)	<0.00002		0.00002	mg/L		21-JUL-06	CLL	R423030
Potassium (K)	0.45		0.02	mg/L		21-JUL-06	CLL	R423030
Magnesium (Mg)	5.96		0.004	mg/L		21-JUL-06	CLL	R423030
Manganese (Mn)	0.0861		0.0001	mg/L		21-JUL-06	CLL	R423030
Molybdenum (Mo)	0.00143		0.00006	mg/L		21-JUL-06	CLL	R423030
Sodium (Na)	0.580		0.005	mg/L		21-JUL-06	CLL	R423030
Nickel (Ni)	0.0572		0.00006	mg/L		21-JUL-06	CLL	R423030
Lead (Pb)	0.00009		0.00005	mg/L		21-JUL-06	CLL	R423030
Antimony (Sb)	0.00029		0.00003	mg/L		21-JUL-06	CLL	R423030
Selenium (Se)	0.0020		0.0001	mg/L		21-JUL-06	CLL	R423030
Strontium (Sr)	0.0876		0.0001	mg/L		21-JUL-06	CLL	R423030
Uranium (U)	0.00131		0.00005	mg/L		21-JUL-06	CLL	R423030

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L409286-2 STATION 2 MACTUNG								
Sampled By: SM on 09-JUL-06 @ 17:00								
Matrix:								
Ultra-Low Metals								
Ultra-Low Metals								
Vanadium (V)	0.00077		0.00005	mg/L		21-JUL-06	CLL	R423030
Zinc (Zn)	0.198		0.0008	mg/L		21-JUL-06	CLL	R423030
Ammonia-N	<0.005		0.005	mg/L		18-JUL-06	LDC	R420878
Bismuth (Bi)	<0.00003		0.00003	mg/L		21-JUL-06	CLL	R423030
Bismuth (Bi)	<0.00003		0.00003	mg/L		21-JUL-06	CLL	R423030
Lithium (Li)	0.0059		0.0001	mg/L		21-JUL-06	CLL	R423030
Lithium (Li)	0.0060		0.0001	mg/L		21-JUL-06	CLL	R423030
Phosphorus, Total	0.014		0.001	mg/L		21-JUL-06	SHC	R422231
Redox Potential	138		0	mV		12-JUL-06	BOC	R419264
Silicon (Si)-Dissolved	2.5		0.1	mg/L		31-JUL-06	DDN	R425558
Silicon (Si)-Total	2.7		0.1	mg/L		31-JUL-06	DDN	R425558
Tin (Sn)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Tin (Sn)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Total Organic Carbon	0.7		0.5	mg/L		13-JUL-06	ZOW	R418884
Routine Water: Major Ions,F,Fe,Mn - Low								
Chloride (Cl)	<1		1	mg/L		12-JUL-06	WYA	R418798
Fluoride (F)	0.12		0.05	mg/L		12-JUL-06	PTT	R419017
ICP metals for routine water								
Calcium (Ca)	28.0		0.5	mg/L		14-JUL-06	MLH	R419519
Potassium (K)	0.5		0.1	mg/L		14-JUL-06	MLH	R419519
Magnesium (Mg)	6.6		0.1	mg/L		14-JUL-06	MLH	R419519
Sodium (Na)	<1		1	mg/L		14-JUL-06	MLH	R419519
Ion Balance Calculation								
Ion Balance	94.2			%		16-JUL-06		
TDS (Calculated)	129			mg/L		16-JUL-06		
Hardness (as CaCO3)	97			mg/L		16-JUL-06		
Iron (Fe)-Extractable	0.617		0.005	mg/L		12-JUL-06	HAS	R418849
Manganese (Mn)-Extractable	0.092		0.001	mg/L		12-JUL-06	HAS	R418849
Nitrate+Nitrite-N	0.053		0.006	mg/L		11-JUL-06	KMY	R418785
Nitrate-N	0.053		0.006	mg/L		11-JUL-06	KMY	R418785
Nitrite-N	<0.002		0.002	mg/L		11-JUL-06	KMY	R418785
Sulphate (SO4)	84.2		0.05	mg/L		12-JUL-06	JWU	R418352
pH, Conductivity and Total Alkalinity								
pH	7.3		0.1	pH		12-JUL-06	PTT	R419017
Conductivity (EC)	206		0.2	uS/cm		12-JUL-06	PTT	R419017
Bicarbonate (HCO3)	19		5	mg/L		12-JUL-06	PTT	R419017
Carbonate (CO3)	<5		5	mg/L		12-JUL-06	PTT	R419017
Hydroxide (OH)	<5		5	mg/L		12-JUL-06	PTT	R419017
Alkalinity, Total (as CaCO3)	16		5	mg/L		12-JUL-06	PTT	R419017
L409286-3 STATION 3 MACTUNG								
Sampled By: SM on 09-JUL-06 @ 15:00								
Matrix:								
Total Metals								
Total Major Metals								
Calcium (Ca)	8.1		0.5	mg/L		26-JUL-06	DDN	R423910
Potassium (K)	0.8		0.1	mg/L		26-JUL-06	DDN	R423910
Magnesium (Mg)	3.6		0.1	mg/L		26-JUL-06	DDN	R423910
Sodium (Na)	<1		1	mg/L		26-JUL-06	DDN	R423910

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L409286-3 STATION 3 MACTUNG								
Sampled By: SM on 09-JUL-06 @ 15:00								
Matrix:								
Total Metals								
Total Major Metals								
Iron (Fe)	1.42		0.005	mg/L		26-JUL-06	DDN	R423910
Manganese (Mn)	0.049		0.001	mg/L		26-JUL-06	DDN	R423910
Total Trace Metals (Low Level)								
Silver (Ag)	<0.0004		0.0004	mg/L		24-JUL-06	QLI	R423033
Aluminum (Al)	1.39		0.02	mg/L		24-JUL-06	QLI	R423033
Arsenic (As)	0.0014		0.0004	mg/L		24-JUL-06	QLI	R423033
Boron (B)	<0.02		0.02	mg/L		24-JUL-06	QLI	R423033
Barium (Ba)	0.0363		0.0002	mg/L		24-JUL-06	QLI	R423033
Beryllium (Be)	<0.001		0.001	mg/L		24-JUL-06	QLI	R423033
Bismuth (Bi)	0.0001		0.0001	mg/L		24-JUL-06	QLI	R423033
Cadmium (Cd)	<0.0002		0.0002	mg/L		24-JUL-06	QLI	R423033
Cobalt (Co)	0.0017		0.0002	mg/L		24-JUL-06	QLI	R423033
Chromium (Cr)	0.0016		0.0008	mg/L		24-JUL-06	QLI	R423033
Copper (Cu)	0.004		0.001	mg/L		24-JUL-06	QLI	R423033
Molybdenum (Mo)	0.0004		0.0001	mg/L		24-JUL-06	QLI	R423033
Nickel (Ni)	0.0052		0.0002	mg/L		24-JUL-06	QLI	R423033
Lead (Pb)	0.0008		0.0001	mg/L		24-JUL-06	QLI	R423033
Antimony (Sb)	<0.0004		0.0004	mg/L		24-JUL-06	QLI	R423033
Selenium (Se)	<0.0004		0.0004	mg/L		24-JUL-06	QLI	R423033
Tin (Sn)	<0.0004		0.0004	mg/L		24-JUL-06	QLI	R423033
Strontium (Sr)	0.0300		0.0002	mg/L		24-JUL-06	QLI	R423033
Titanium (Ti)	0.090		0.005	mg/L		24-JUL-06	QLI	R423033
Thallium (Tl)	<0.0001		0.0001	mg/L		24-JUL-06	QLI	R423033
Uranium (U)	0.0005		0.0001	mg/L		24-JUL-06	QLI	R423033
Vanadium (V)	0.0032		0.0002	mg/L		24-JUL-06	QLI	R423033
Zinc (Zn)	0.010		0.004	mg/L		24-JUL-06	QLI	R423033
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.026		0.005	mg/L		31-JUL-06	DDN	R425558
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Aluminum (Al)	0.0467		0.0003	mg/L		21-JUL-06	CLL	R423030
Arsenic (As)	0.00032		0.00003	mg/L		21-JUL-06	CLL	R423030
Boron (B)	0.001		0.001	mg/L		21-JUL-06	CLL	R423030
Barium (Ba)	0.0107		0.00005	mg/L		21-JUL-06	CLL	R423030
Beryllium (Be)	<0.0002		0.0002	mg/L		21-JUL-06	CLL	R423030
Calcium (Ca)	6.90		0.02	mg/L		21-JUL-06	CLL	R423030
Cadmium (Cd)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Cobalt (Co)	0.0008		0.0001	mg/L		21-JUL-06	CLL	R423030
Chromium (Cr)	<0.00006		0.00006	mg/L		21-JUL-06	CLL	R423030
Copper (Cu)	0.0009		0.0006	mg/L		21-JUL-06	CLL	R423030
Mercury (Hg)	<0.00002		0.00002	mg/L		21-JUL-06	CLL	R423030
Potassium (K)	0.29		0.02	mg/L		21-JUL-06	CLL	R423030
Magnesium (Mg)	3.39		0.004	mg/L		21-JUL-06	CLL	R423030
Manganese (Mn)	0.0209		0.0001	mg/L		21-JUL-06	CLL	R423030
Molybdenum (Mo)	0.00025		0.00006	mg/L		21-JUL-06	CLL	R423030
Sodium (Na)	0.358		0.005	mg/L		21-JUL-06	CLL	R423030
Nickel (Ni)	0.00352		0.00006	mg/L		21-JUL-06	CLL	R423030
Lead (Pb)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Antimony (Sb)	0.00015		0.00003	mg/L		21-JUL-06	CLL	R423030
Selenium (Se)	0.0002		0.0001	mg/L		21-JUL-06	CLL	R423030
Strontium (Sr)	0.0216		0.0001	mg/L		21-JUL-06	CLL	R423030

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L409286-3 STATION 3 MACTUNG								
Sampled By: SM on 09-JUL-06 @ 15:00								
Matrix:								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals - Dissolved								
Uranium (U)	0.00017		0.00005	mg/L		21-JUL-06	CLL	R423030
Vanadium (V)	0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Zinc (Zn)	0.0053		0.0008	mg/L		21-JUL-06	CLL	R423030
Ammonia-N	<0.005		0.005	mg/L		18-JUL-06	LDC	R420878
Bismuth (Bi)	<0.00003		0.00003	mg/L		21-JUL-06	CLL	R423030
Lithium (Li)	0.0009		0.0001	mg/L		21-JUL-06	CLL	R423030
Lithium (Li)-Total	<0.006		0.006	mg/L		24-JUL-06	QLI	R423033
Phosphorus, Total	0.024		0.001	mg/L		21-JUL-06	SHC	R422231
Redox Potential	125		0	mV		12-JUL-06	BOC	R419264
Silicon (Si)-Dissolved	1.2		0.1	mg/L		31-JUL-06	DDN	R425558
Silicon (Si)-Total	3.1		0.1	mg/L		26-JUL-06	DDN	R423910
Tin (Sn)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Total Organic Carbon	1.2		0.5	mg/L		13-JUL-06	ZOW	R418884
Routine Water: Major Ions,F,Fe,Mn - Low								
Chloride (Cl)	<1		1	mg/L		12-JUL-06	WYA	R418798
Fluoride (F)	0.05		0.05	mg/L		12-JUL-06	PTT	R419017
ICP metals for routine water								
Calcium (Ca)	8.3		0.5	mg/L		12-JUL-06	MLH	R418687
Potassium (K)	0.5		0.1	mg/L		12-JUL-06	MLH	R418687
Magnesium (Mg)	3.2		0.1	mg/L		12-JUL-06	MLH	R418687
Sodium (Na)	<1		1	mg/L		12-JUL-06	MLH	R418687
Ion Balance Calculation								
Ion Balance	Low EC			%		20-JUL-06		
TDS (Calculated)	42			mg/L		20-JUL-06		
Hardness (as CaCO3)	34			mg/L		20-JUL-06		
Iron (Fe)-Extractable	0.516		0.005	mg/L		12-JUL-06	HAS	R418849
Manganese (Mn)-Extractable	0.032		0.001	mg/L		12-JUL-06	HAS	R418849
Nitrate+Nitrite-N	0.023		0.006	mg/L		11-JUL-06	KMY	R418785
Nitrate-N	0.023		0.006	mg/L		11-JUL-06	KMY	R418785
Nitrite-N	<0.002		0.002	mg/L		11-JUL-06	KMY	R418785
Sulphate (SO4)	22.3		0.05	mg/L		12-JUL-06	JWU	R418352
pH, Conductivity and Total Alkalinity								
pH	7.3		0.1	pH		12-JUL-06	PTT	R419017
Conductivity (EC)	92.0		0.2	uS/cm		12-JUL-06	PTT	R419017
Bicarbonate (HCO3)	14		5	mg/L		20-JUL-06	PTT	R421572
Carbonate (CO3)	<5		5	mg/L		20-JUL-06	PTT	R421572
Hydroxide (OH)	<5		5	mg/L		20-JUL-06	PTT	R421572
Alkalinity, Total (as CaCO3)	12		5	mg/L		20-JUL-06	PTT	R421572
L409286-4 STATION 3 DUPLICATE MACTUNG								
Sampled By: SM on 09-JUL-06 @ 15:00								
Matrix:								
Total Metals								
Total Major Metals								
Calcium (Ca)	8.1		0.5	mg/L		26-JUL-06	DDN	R423910
Potassium (K)	0.9		0.1	mg/L		26-JUL-06	DDN	R423910
Magnesium (Mg)	3.7		0.1	mg/L		26-JUL-06	DDN	R423910
Sodium (Na)	<1		1	mg/L		26-JUL-06	DDN	R423910
Iron (Fe)	1.45		0.005	mg/L		26-JUL-06	DDN	R423910

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L409286-4 STATION 3 DUPLICATE MACTUNG								
Sampled By: SM on 09-JUL-06 @ 15:00								
Matrix:								
Total Metals								
Total Major Metals								
Manganese (Mn)	0.051		0.001	mg/L		26-JUL-06	DDN	R423910
Total Trace Metals (Low Level)								
Silver (Ag)	<0.0004		0.0004	mg/L		24-JUL-06	QLI	R423033
Aluminum (Al)	1.33		0.02	mg/L		24-JUL-06	QLI	R423033
Arsenic (As)	0.0014		0.0004	mg/L		24-JUL-06	QLI	R423033
Boron (B)	<0.02		0.02	mg/L		24-JUL-06	QLI	R423033
Barium (Ba)	0.0343		0.0002	mg/L		24-JUL-06	QLI	R423033
Beryllium (Be)	<0.001		0.001	mg/L		24-JUL-06	QLI	R423033
Bismuth (Bi)	0.0001		0.0001	mg/L		24-JUL-06	QLI	R423033
Cadmium (Cd)	<0.0002		0.0002	mg/L		24-JUL-06	QLI	R423033
Cobalt (Co)	0.0016		0.0002	mg/L		24-JUL-06	QLI	R423033
Chromium (Cr)	0.0015		0.0008	mg/L		24-JUL-06	QLI	R423033
Copper (Cu)	0.004		0.001	mg/L		24-JUL-06	QLI	R423033
Molybdenum (Mo)	0.0003		0.0001	mg/L		24-JUL-06	QLI	R423033
Nickel (Ni)	0.0053		0.0002	mg/L		24-JUL-06	QLI	R423033
Lead (Pb)	0.0009		0.0001	mg/L		24-JUL-06	QLI	R423033
Antimony (Sb)	<0.0004		0.0004	mg/L		24-JUL-06	QLI	R423033
Selenium (Se)	<0.0004		0.0004	mg/L		24-JUL-06	QLI	R423033
Tin (Sn)	<0.0004		0.0004	mg/L		24-JUL-06	QLI	R423033
Strontium (Sr)	0.0299		0.0002	mg/L		24-JUL-06	QLI	R423033
Titanium (Ti)	0.091		0.005	mg/L		24-JUL-06	QLI	R423033
Thallium (Tl)	<0.0001		0.0001	mg/L		24-JUL-06	QLI	R423033
Uranium (U)	0.0005		0.0001	mg/L		24-JUL-06	QLI	R423033
Vanadium (V)	0.0032		0.0002	mg/L		24-JUL-06	QLI	R423033
Zinc (Zn)	0.011		0.004	mg/L		24-JUL-06	QLI	R423033
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.029		0.005	mg/L		31-JUL-06	DDN	R425558
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Aluminum (Al)	0.0496		0.0003	mg/L		21-JUL-06	CLL	R423030
Arsenic (As)	0.00033		0.00003	mg/L		21-JUL-06	CLL	R423030
Boron (B)	0.001		0.001	mg/L		21-JUL-06	CLL	R423030
Barium (Ba)	0.0106		0.00005	mg/L		21-JUL-06	CLL	R423030
Beryllium (Be)	<0.0002		0.0002	mg/L		21-JUL-06	CLL	R423030
Calcium (Ca)	7.13		0.02	mg/L		21-JUL-06	CLL	R423030
Cadmium (Cd)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Cobalt (Co)	0.0008		0.0001	mg/L		21-JUL-06	CLL	R423030
Chromium (Cr)	<0.00006		0.00006	mg/L		21-JUL-06	CLL	R423030
Copper (Cu)	0.0008		0.0006	mg/L		21-JUL-06	CLL	R423030
Mercury (Hg)	<0.00002		0.00002	mg/L		21-JUL-06	CLL	R423030
Potassium (K)	0.30		0.02	mg/L		21-JUL-06	CLL	R423030
Magnesium (Mg)	3.43		0.004	mg/L		21-JUL-06	CLL	R423030
Manganese (Mn)	0.0214		0.0001	mg/L		21-JUL-06	CLL	R423030
Molybdenum (Mo)	0.00024		0.00006	mg/L		21-JUL-06	CLL	R423030
Sodium (Na)	0.358		0.005	mg/L		21-JUL-06	CLL	R423030
Nickel (Ni)	0.00361		0.00006	mg/L		21-JUL-06	CLL	R423030
Lead (Pb)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Antimony (Sb)	0.00023		0.00003	mg/L		21-JUL-06	CLL	R423030
Selenium (Se)	0.0002		0.0001	mg/L		21-JUL-06	CLL	R423030
Strontium (Sr)	0.0219		0.0001	mg/L		21-JUL-06	CLL	R423030
Uranium (U)	0.00018		0.00005	mg/L		21-JUL-06	CLL	R423030

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L409286-4 STATION 3 DUPLICATE MACTUNG								
Sampled By: SM on 09-JUL-06 @ 15:00								
Matrix:								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals - Dissolved								
Vanadium (V)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Zinc (Zn)	0.0051		0.0008	mg/L		21-JUL-06	CLL	R423030
Ammonia-N	<0.005		0.005	mg/L		18-JUL-06	LDC	R420878
Bismuth (Bi)	<0.00003		0.00003	mg/L		21-JUL-06	CLL	R423030
Lithium (Li)	0.0010		0.0001	mg/L		21-JUL-06	CLL	R423030
Lithium (Li)-Total	<0.006		0.006	mg/L		24-JUL-06	QLI	R423033
Phosphorus, Total	0.023		0.001	mg/L		21-JUL-06	SHC	R422231
Redox Potential	123		0	mV		12-JUL-06	BOC	R419264
Silicon (Si)-Dissolved	1.2		0.1	mg/L		31-JUL-06	DDN	R425558
Silicon (Si)-Total	3.1		0.1	mg/L		26-JUL-06	DDN	R423910
Tin (Sn)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Total Organic Carbon	1.2		0.5	mg/L		13-JUL-06	ZOW	R418884
Routine Water: Major Ions,F,Fe,Mn - Low								
Chloride (Cl)	<1		1	mg/L		12-JUL-06	WYA	R418798
Fluoride (F)	0.05		0.05	mg/L		12-JUL-06	PTT	R419017
ICP metals for routine water								
Calcium (Ca)	8.1		0.5	mg/L		12-JUL-06	MLH	R418687
Potassium (K)	0.5		0.1	mg/L		12-JUL-06	MLH	R418687
Magnesium (Mg)	3.2		0.1	mg/L		12-JUL-06	MLH	R418687
Sodium (Na)	<1		1	mg/L		12-JUL-06	MLH	R418687
Ion Balance Calculation								
Ion Balance	Low EC			%		14-JUL-06		
TDS (Calculated)	42			mg/L		14-JUL-06		
Hardness (as CaCO3)	33			mg/L		14-JUL-06		
Iron (Fe)-Extractable	0.526		0.005	mg/L		12-JUL-06	HAS	R418849
Manganese (Mn)-Extractable	0.032		0.001	mg/L		12-JUL-06	HAS	R418849
Nitrate+Nitrite-N	0.022		0.006	mg/L		11-JUL-06	KMY	R418785
Nitrate-N	0.022		0.006	mg/L		11-JUL-06	KMY	R418785
Nitrite-N	<0.002		0.002	mg/L		11-JUL-06	KMY	R418785
Sulphate (SO4)	22.4		0.05	mg/L		12-JUL-06	JWU	R418352
pH, Conductivity and Total Alkalinity								
pH	7.4		0.1	pH		12-JUL-06	PTT	R419017
Conductivity (EC)	80.0		0.2	uS/cm		12-JUL-06	PTT	R419017
Bicarbonate (HCO3)	16		5	mg/L		12-JUL-06	PTT	R419017
Carbonate (CO3)	<5		5	mg/L		12-JUL-06	PTT	R419017
Hydroxide (OH)	<5		5	mg/L		12-JUL-06	PTT	R419017
Alkalinity, Total (as CaCO3)	13		5	mg/L		12-JUL-06	PTT	R419017
L409286-5 STATION 4 MACTUNG								
Sampled By: SM on 09-JUL-06 @ 16:00								
Matrix:								
Total Metals								
Total Major Metals								
Calcium (Ca)	12.8		0.5	mg/L		26-JUL-06	DDN	R423910
Potassium (K)	0.7		0.1	mg/L		26-JUL-06	DDN	R423910
Magnesium (Mg)	4.3		0.1	mg/L		26-JUL-06	DDN	R423910
Sodium (Na)	<1		1	mg/L		26-JUL-06	DDN	R423910
Iron (Fe)	1.36		0.005	mg/L		26-JUL-06	DDN	R423910
Manganese (Mn)	0.059		0.001	mg/L		26-JUL-06	DDN	R423910

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L409286-5 STATION 4 MACTUNG								
Sampled By: SM on 09-JUL-06 @ 16:00								
Matrix:								
Total Metals								
Total Trace Metals (Low Level)								
Silver (Ag)	<0.0004		0.0004	mg/L		24-JUL-06	QLI	R423033
Aluminum (Al)	1.51		0.02	mg/L		24-JUL-06	QLI	R423033
Arsenic (As)	0.0014		0.0004	mg/L		24-JUL-06	QLI	R423033
Boron (B)	<0.02		0.02	mg/L		24-JUL-06	QLI	R423033
Barium (Ba)	0.0441		0.0002	mg/L		24-JUL-06	QLI	R423033
Beryllium (Be)	<0.001		0.001	mg/L		24-JUL-06	QLI	R423033
Bismuth (Bi)	<0.0001		0.0001	mg/L		24-JUL-06	QLI	R423033
Cadmium (Cd)	0.0008		0.0002	mg/L		24-JUL-06	QLI	R423033
Cobalt (Co)	0.0027		0.0002	mg/L		24-JUL-06	QLI	R423033
Chromium (Cr)	0.0012		0.0008	mg/L		24-JUL-06	QLI	R423033
Copper (Cu)	0.009		0.001	mg/L		24-JUL-06	QLI	R423033
Molybdenum (Mo)	0.0007		0.0001	mg/L		24-JUL-06	QLI	R423033
Nickel (Ni)	0.0184		0.0002	mg/L		24-JUL-06	QLI	R423033
Lead (Pb)	0.0007		0.0001	mg/L		24-JUL-06	QLI	R423033
Antimony (Sb)	0.0005		0.0004	mg/L		24-JUL-06	QLI	R423033
Selenium (Se)	0.0006		0.0004	mg/L		24-JUL-06	QLI	R423033
Tin (Sn)	<0.0004		0.0004	mg/L		24-JUL-06	QLI	R423033
Strontium (Sr)	0.0517		0.0002	mg/L		24-JUL-06	QLI	R423033
Titanium (Ti)	0.075		0.005	mg/L		24-JUL-06	QLI	R423033
Thallium (Tl)	<0.0001		0.0001	mg/L		24-JUL-06	QLI	R423033
Uranium (U)	0.0007		0.0001	mg/L		24-JUL-06	QLI	R423033
Vanadium (V)	0.0029		0.0002	mg/L		24-JUL-06	QLI	R423033
Zinc (Zn)	0.051		0.004	mg/L		24-JUL-06	QLI	R423033
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.041		0.005	mg/L		31-JUL-06	DDN	R425558
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Aluminum (Al)	0.0460		0.0003	mg/L		21-JUL-06	CLL	R423030
Arsenic (As)	0.00023		0.00003	mg/L		21-JUL-06	CLL	R423030
Boron (B)	0.002		0.001	mg/L		21-JUL-06	CLL	R423030
Barium (Ba)	0.0174		0.00005	mg/L		21-JUL-06	CLL	R423030
Beryllium (Be)	<0.0002		0.0002	mg/L		21-JUL-06	CLL	R423030
Calcium (Ca)	11.5		0.02	mg/L		21-JUL-06	CLL	R423030
Cadmium (Cd)	0.00074		0.00005	mg/L		21-JUL-06	CLL	R423030
Cobalt (Co)	0.0019		0.0001	mg/L		21-JUL-06	CLL	R423030
Chromium (Cr)	<0.00006		0.00006	mg/L		21-JUL-06	CLL	R423030
Copper (Cu)	0.0016		0.0006	mg/L		21-JUL-06	CLL	R423030
Mercury (Hg)	<0.00002		0.00002	mg/L		21-JUL-06	CLL	R423030
Potassium (K)	0.34		0.02	mg/L		21-JUL-06	CLL	R423030
Magnesium (Mg)	4.25		0.004	mg/L		21-JUL-06	CLL	R423030
Manganese (Mn)	0.0333		0.0001	mg/L		21-JUL-06	CLL	R423030
Molybdenum (Mo)	0.00050		0.00006	mg/L		21-JUL-06	CLL	R423030
Sodium (Na)	0.428		0.005	mg/L		21-JUL-06	CLL	R423030
Nickel (Ni)	0.0153		0.00006	mg/L		21-JUL-06	CLL	R423030
Lead (Pb)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Antimony (Sb)	0.00017		0.00003	mg/L		21-JUL-06	CLL	R423030
Selenium (Se)	0.0006		0.0001	mg/L		21-JUL-06	CLL	R423030
Strontium (Sr)	0.0400		0.0001	mg/L		21-JUL-06	CLL	R423030
Uranium (U)	0.00009		0.00005	mg/L		21-JUL-06	CLL	R423030
Vanadium (V)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Zinc (Zn)	0.0390		0.0008	mg/L		21-JUL-06	CLL	R423030

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L409286-5 STATION 4 MACTUNG								
Sampled By: SM on 09-JUL-06 @ 16:00								
Matrix:								
Ultra-Low Metals - Dissolved								
Ammonia-N	<0.005		0.005	mg/L		18-JUL-06	LDC	R420878
Bismuth (Bi)	<0.00003		0.00003	mg/L		21-JUL-06	CLL	R423030
Lithium (Li)	0.0024		0.0001	mg/L		21-JUL-06	CLL	R423030
Lithium (Li)-Total	<0.006		0.006	mg/L		24-JUL-06	QLI	R423033
Phosphorus, Total	0.024		0.001	mg/L		21-JUL-06	SHC	R422231
Redox Potential	133		0	mV		12-JUL-06	BOC	R419264
Silicon (Si)-Dissolved	1.5		0.1	mg/L		31-JUL-06	DDN	R425558
Silicon (Si)-Total	2.9		0.1	mg/L		26-JUL-06	DDN	R423910
Tin (Sn)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Total Organic Carbon	1.2		0.5	mg/L		13-JUL-06	ZOW	R418884
Routine Water: Major Ions,F,Fe,Mn - Low								
Chloride (Cl)	<1		1	mg/L		12-JUL-06	WYA	R418798
Fluoride (F)	0.06		0.05	mg/L		12-JUL-06	PTT	R419017
ICP metals for routine water								
Calcium (Ca)	13.0		0.5	mg/L		12-JUL-06	MLH	R418687
Potassium (K)	0.5		0.1	mg/L		12-JUL-06	MLH	R418687
Magnesium (Mg)	4.0		0.1	mg/L		12-JUL-06	MLH	R418687
Sodium (Na)	<1		1	mg/L		12-JUL-06	MLH	R418687
Ion Balance Calculation								
Ion Balance	94.5			%		14-JUL-06		
TDS (Calculated)	63			mg/L		14-JUL-06		
Hardness (as CaCO3)	49			mg/L		14-JUL-06		
Iron (Fe)-Extractable	0.542		0.005	mg/L		12-JUL-06	HAS	R418849
Manganese (Mn)-Extractable	0.043		0.001	mg/L		12-JUL-06	HAS	R418849
Nitrate+Nitrite-N	0.028		0.006	mg/L		11-JUL-06	KMY	R418785
Nitrate-N	0.028		0.006	mg/L		11-JUL-06	KMY	R418785
Nitrite-N	<0.002		0.002	mg/L		11-JUL-06	KMY	R418785
Sulphate (SO4)	36.7		0.05	mg/L		12-JUL-06	JWU	R418352
pH, Conductivity and Total Alkalinity								
pH	7.4		0.1	pH		12-JUL-06	PTT	R419017
Conductivity (EC)	114		0.2	uS/cm		12-JUL-06	PTT	R419017
Bicarbonate (HCO3)	17		5	mg/L		12-JUL-06	PTT	R419017
Carbonate (CO3)	<5		5	mg/L		12-JUL-06	PTT	R419017
Hydroxide (OH)	<5		5	mg/L		12-JUL-06	PTT	R419017
Alkalinity, Total (as CaCO3)	14		5	mg/L		12-JUL-06	PTT	R419017
L409286-6 STATION 5 MACTUNG								
Sampled By: SM on 08-JUL-06 @ 16:00								
Matrix:								
Total Metals								
Total Major Metals								
Calcium (Ca)	15.9		0.5	mg/L		26-JUL-06	DDN	R423910
Potassium (K)	0.5		0.1	mg/L		26-JUL-06	DDN	R423910
Magnesium (Mg)	2.2		0.1	mg/L		26-JUL-06	DDN	R423910
Sodium (Na)	<1		1	mg/L		26-JUL-06	DDN	R423910
Iron (Fe)	0.179		0.005	mg/L		26-JUL-06	DDN	R423910
Manganese (Mn)	0.015		0.001	mg/L		26-JUL-06	DDN	R423910
Total Trace Metals (Low Level)								
Silver (Ag)	<0.0004		0.0004	mg/L		24-JUL-06	QLI	R423033
Aluminum (Al)	0.13		0.02	mg/L		24-JUL-06	QLI	R423033

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L409286-6 STATION 5 MACTUNG								
Sampled By: SM on 08-JUL-06 @ 16:00								
Matrix:								
Total Metals								
Total Trace Metals (Low Level)								
Arsenic (As)	0.0025		0.0004	mg/L		24-JUL-06	QLI	R423033
Boron (B)	<0.02		0.02	mg/L		24-JUL-06	QLI	R423033
Barium (Ba)	0.0361		0.0002	mg/L		24-JUL-06	QLI	R423033
Beryllium (Be)	<0.001		0.001	mg/L		24-JUL-06	QLI	R423033
Bismuth (Bi)	<0.0001		0.0001	mg/L		24-JUL-06	QLI	R423033
Cadmium (Cd)	0.0004		0.0002	mg/L		24-JUL-06	QLI	R423033
Cobalt (Co)	0.0006		0.0002	mg/L		24-JUL-06	QLI	R423033
Chromium (Cr)	<0.0008		0.0008	mg/L		24-JUL-06	QLI	R423033
Copper (Cu)	0.002		0.001	mg/L		24-JUL-06	QLI	R423033
Molybdenum (Mo)	0.0014		0.0001	mg/L		24-JUL-06	QLI	R423033
Nickel (Ni)	0.0073		0.0002	mg/L		24-JUL-06	QLI	R423033
Lead (Pb)	0.0001		0.0001	mg/L		24-JUL-06	QLI	R423033
Antimony (Sb)	<0.0004		0.0004	mg/L		24-JUL-06	QLI	R423033
Selenium (Se)	0.0008		0.0004	mg/L		24-JUL-06	QLI	R423033
Tin (Sn)	<0.0004		0.0004	mg/L		24-JUL-06	QLI	R423033
Strontium (Sr)	0.0576		0.0002	mg/L		24-JUL-06	QLI	R423033
Titanium (Ti)	<0.005		0.005	mg/L		24-JUL-06	QLI	R423033
Thallium (Tl)	<0.0001		0.0001	mg/L		24-JUL-06	QLI	R423033
Uranium (U)	0.0008		0.0001	mg/L		24-JUL-06	QLI	R423033
Vanadium (V)	0.0014		0.0002	mg/L		24-JUL-06	QLI	R423033
Zinc (Zn)	0.022		0.004	mg/L		24-JUL-06	QLI	R423033
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.026		0.005	mg/L		31-JUL-06	DDN	R425558
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Aluminum (Al)	0.0166		0.0003	mg/L		21-JUL-06	CLL	R423030
Arsenic (As)	0.00086		0.00003	mg/L		21-JUL-06	CLL	R423030
Boron (B)	<0.001		0.001	mg/L		21-JUL-06	CLL	R423030
Barium (Ba)	0.0250		0.00005	mg/L		21-JUL-06	CLL	R423030
Beryllium (Be)	<0.0002		0.0002	mg/L		21-JUL-06	CLL	R423030
Calcium (Ca)	14.0		0.02	mg/L		21-JUL-06	CLL	R423030
Cadmium (Cd)	0.00034		0.00005	mg/L		21-JUL-06	CLL	R423030
Cobalt (Co)	0.0004		0.0001	mg/L		21-JUL-06	CLL	R423030
Chromium (Cr)	<0.00006		0.00006	mg/L		21-JUL-06	CLL	R423030
Copper (Cu)	0.0008		0.0006	mg/L		21-JUL-06	CLL	R423030
Mercury (Hg)	<0.00002		0.00002	mg/L		21-JUL-06	CLL	R423030
Potassium (K)	0.38		0.02	mg/L		21-JUL-06	CLL	R423030
Magnesium (Mg)	2.20		0.004	mg/L		21-JUL-06	CLL	R423030
Manganese (Mn)	0.0098		0.0001	mg/L		21-JUL-06	CLL	R423030
Molybdenum (Mo)	0.00111		0.00006	mg/L		21-JUL-06	CLL	R423030
Sodium (Na)	0.278		0.005	mg/L		21-JUL-06	CLL	R423030
Nickel (Ni)	0.00575		0.00006	mg/L		21-JUL-06	CLL	R423030
Lead (Pb)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Antimony (Sb)	0.00025		0.00003	mg/L		21-JUL-06	CLL	R423030
Selenium (Se)	0.0008		0.0001	mg/L		21-JUL-06	CLL	R423030
Strontium (Sr)	0.0465		0.0001	mg/L		21-JUL-06	CLL	R423030
Uranium (U)	0.00056		0.00005	mg/L		21-JUL-06	CLL	R423030
Vanadium (V)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Zinc (Zn)	0.0201		0.0008	mg/L		21-JUL-06	CLL	R423030

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L409286-6 STATION 5 MACTUNG								
Sampled By: SM on 08-JUL-06 @ 16:00								
Matrix:								
Ammonia-N	<0.005		0.005	mg/L		18-JUL-06	LDC	R420878
Bismuth (Bi)	<0.00003		0.00003	mg/L		21-JUL-06	CLL	R423030
Lithium (Li)	0.0002		0.0001	mg/L		21-JUL-06	CLL	R423030
Lithium (Li)-Total	<0.006		0.006	mg/L		24-JUL-06	QLI	R423033
Phosphorus, Total	0.006		0.001	mg/L		21-JUL-06	SHC	R422231
Redox Potential	132		0	mV		12-JUL-06	BOC	R419264
Silicon (Si)-Dissolved	1.5		0.1	mg/L		31-JUL-06	DDN	R425558
Silicon (Si)-Total	1.5		0.1	mg/L		26-JUL-06	DDN	R423910
Tin (Sn)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Total Organic Carbon	0.9		0.5	mg/L		13-JUL-06	ZOW	R418884
Routine Water: Major Ions,F,Fe,Mn - Low								
Chloride (Cl)	<1		1	mg/L		12-JUL-06	WYA	R418798
Fluoride (F)	0.06		0.05	mg/L		12-JUL-06	PTT	R419017
ICP metals for routine water								
Calcium (Ca)	18.3		0.5	mg/L		14-JUL-06	MLH	R419519
Potassium (K)	0.5		0.1	mg/L		14-JUL-06	MLH	R419519
Magnesium (Mg)	2.5		0.1	mg/L		14-JUL-06	MLH	R419519
Sodium (Na)	<1		1	mg/L		14-JUL-06	MLH	R419519
Ion Balance Calculation								
Ion Balance	101			%		16-JUL-06		
TDS (Calculated)	65			mg/L		16-JUL-06		
Hardness (as CaCO3)	56			mg/L		16-JUL-06		
Iron (Fe)-Extractable	0.047		0.005	mg/L		12-JUL-06	HAS	R418849
Manganese (Mn)-Extractable	0.010		0.001	mg/L		12-JUL-06	HAS	R418849
Nitrate+Nitrite-N	0.036		0.006	mg/L		11-JUL-06	KMY	R418785
Nitrate-N	0.036		0.006	mg/L		11-JUL-06	KMY	R418785
Nitrite-N	<0.002		0.002	mg/L		11-JUL-06	KMY	R418785
Sulphate (SO4)	27.4		0.05	mg/L		12-JUL-06	JWU	R418352
pH, Conductivity and Total Alkalinity								
pH	7.6		0.1	pH		12-JUL-06	PTT	R419017
Conductivity (EC)	112		0.2	uS/cm		12-JUL-06	PTT	R419017
Bicarbonate (HCO3)	33		5	mg/L		12-JUL-06	PTT	R419017
Carbonate (CO3)	<5		5	mg/L		12-JUL-06	PTT	R419017
Hydroxide (OH)	<5		5	mg/L		12-JUL-06	PTT	R419017
Alkalinity, Total (as CaCO3)	27		5	mg/L		12-JUL-06	PTT	R419017
L409286-7 STATION 6 MACTUNG								
Sampled By: SM on 08-JUL-06 @ 13:00								
Matrix:								
Total Metals								
Total Major Metals								
Calcium (Ca)	18.7		0.5	mg/L		26-JUL-06	DDN	R423910
Potassium (K)	1.0		0.1	mg/L		26-JUL-06	DDN	R423910
Magnesium (Mg)	3.0		0.1	mg/L		26-JUL-06	DDN	R423910
Sodium (Na)	<1		1	mg/L		26-JUL-06	DDN	R423910
Iron (Fe)	1.60		0.005	mg/L		26-JUL-06	DDN	R423910
Manganese (Mn)	0.041		0.001	mg/L		26-JUL-06	DDN	R423910
Total Trace Metals (Low Level)								
Silver (Ag)	<0.0004		0.0004	mg/L		24-JUL-06	QLI	R423033
Aluminum (Al)	1.37		0.02	mg/L		24-JUL-06	QLI	R423033
Arsenic (As)	0.0055		0.0004	mg/L		24-JUL-06	QLI	R423033

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L409286-7 STATION 6 MACTUNG								
Sampled By: SM on 08-JUL-06 @ 13:00								
Matrix:								
Total Metals								
Total Trace Metals (Low Level)								
Boron (B)	<0.02		0.02	mg/L		24-JUL-06	QLI	R423033
Barium (Ba)	0.0974		0.0002	mg/L		24-JUL-06	QLI	R423033
Beryllium (Be)	<0.001		0.001	mg/L		24-JUL-06	QLI	R423033
Bismuth (Bi)	<0.0001		0.0001	mg/L		24-JUL-06	QLI	R423033
Cadmium (Cd)	0.0004		0.0002	mg/L		24-JUL-06	QLI	R423033
Cobalt (Co)	0.0020		0.0002	mg/L		24-JUL-06	QLI	R423033
Chromium (Cr)	0.0017		0.0008	mg/L		24-JUL-06	QLI	R423033
Copper (Cu)	0.005		0.001	mg/L		24-JUL-06	QLI	R423033
Molybdenum (Mo)	0.0014		0.0001	mg/L		24-JUL-06	QLI	R423033
Nickel (Ni)	0.0085		0.0002	mg/L		24-JUL-06	QLI	R423033
Lead (Pb)	0.0011		0.0001	mg/L		24-JUL-06	QLI	R423033
Antimony (Sb)	0.0006		0.0004	mg/L		24-JUL-06	QLI	R423033
Selenium (Se)	0.0007		0.0004	mg/L		24-JUL-06	QLI	R423033
Tin (Sn)	<0.0004		0.0004	mg/L		24-JUL-06	QLI	R423033
Strontium (Sr)	0.0598		0.0002	mg/L		24-JUL-06	QLI	R423033
Titanium (Ti)	0.049		0.005	mg/L		24-JUL-06	QLI	R423033
Thallium (Tl)	<0.0001		0.0001	mg/L		24-JUL-06	QLI	R423033
Uranium (U)	0.0009		0.0001	mg/L		24-JUL-06	QLI	R423033
Vanadium (V)	0.0048		0.0002	mg/L		24-JUL-06	QLI	R423033
Zinc (Zn)	0.027		0.004	mg/L		24-JUL-06	QLI	R423033
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.020		0.005	mg/L		31-JUL-06	DDN	R425558
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Aluminum (Al)	0.0279		0.0003	mg/L		21-JUL-06	CLL	R423030
Arsenic (As)	0.00120		0.00003	mg/L		21-JUL-06	CLL	R423030
Boron (B)	<0.001		0.001	mg/L		21-JUL-06	CLL	R423030
Barium (Ba)	0.0325		0.00005	mg/L		21-JUL-06	CLL	R423030
Beryllium (Be)	<0.0002		0.0002	mg/L		21-JUL-06	CLL	R423030
Calcium (Ca)	15.9		0.02	mg/L		21-JUL-06	CLL	R423030
Cadmium (Cd)	0.00018		0.00005	mg/L		21-JUL-06	CLL	R423030
Cobalt (Co)	0.0008		0.0001	mg/L		21-JUL-06	CLL	R423030
Chromium (Cr)	<0.00006		0.00006	mg/L		21-JUL-06	CLL	R423030
Copper (Cu)	0.0008		0.0006	mg/L		21-JUL-06	CLL	R423030
Mercury (Hg)	<0.00002		0.00002	mg/L		21-JUL-06	CLL	R423030
Potassium (K)	0.45		0.02	mg/L		21-JUL-06	CLL	R423030
Magnesium (Mg)	2.35		0.004	mg/L		21-JUL-06	CLL	R423030
Manganese (Mn)	0.0168		0.0001	mg/L		21-JUL-06	CLL	R423030
Molybdenum (Mo)	0.00113		0.00006	mg/L		21-JUL-06	CLL	R423030
Sodium (Na)	0.318		0.005	mg/L		21-JUL-06	CLL	R423030
Nickel (Ni)	0.00458		0.00006	mg/L		21-JUL-06	CLL	R423030
Lead (Pb)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Antimony (Sb)	0.00031		0.00003	mg/L		21-JUL-06	CLL	R423030
Selenium (Se)	0.0008		0.0001	mg/L		21-JUL-06	CLL	R423030
Strontium (Sr)	0.0442		0.0001	mg/L		21-JUL-06	CLL	R423030
Uranium (U)	0.00047		0.00005	mg/L		21-JUL-06	CLL	R423030
Vanadium (V)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Zinc (Zn)	0.0105		0.0008	mg/L		21-JUL-06	CLL	R423030
Ammonia-N	0.007		0.005	mg/L		18-JUL-06	LDC	R420878

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L409286-7 STATION 6 MACTUNG								
Sampled By: SM on 08-JUL-06 @ 13:00								
Matrix:								
Bismuth (Bi)	<0.00003		0.00003	mg/L		21-JUL-06	CLL	R423030
Lithium (Li)	0.0003		0.0001	mg/L		21-JUL-06	CLL	R423030
Lithium (Li)-Total	<0.006		0.006	mg/L		24-JUL-06	QLI	R423033
Phosphorus, Total	0.086		0.001	mg/L		21-JUL-06	SHC	R422231
Redox Potential	132		0	mV		12-JUL-06	BOC	R419264
Silicon (Si)-Dissolved	1.7		0.1	mg/L		31-JUL-06	DDN	R425558
Silicon (Si)-Total	3.4		0.1	mg/L		26-JUL-06	DDN	R423910
Tin (Sn)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Total Organic Carbon	1.4		0.5	mg/L		13-JUL-06	ZOW	R418884
Routine Water: Major Ions,F,Fe,Mn - Low								
Chloride (Cl)	<1		1	mg/L		12-JUL-06	WYA	R418798
Fluoride (F)	0.06		0.05	mg/L		12-JUL-06	PTT	R419017
ICP metals for routine water								
Calcium (Ca)	18.9		0.5	mg/L		12-JUL-06	MLH	R418687
Potassium (K)	0.7		0.1	mg/L		12-JUL-06	MLH	R418687
Magnesium (Mg)	2.2		0.1	mg/L		12-JUL-06	MLH	R418687
Sodium (Na)	<1		1	mg/L		12-JUL-06	MLH	R418687
Ion Balance Calculation								
Ion Balance	94.7			%		14-JUL-06		
TDS (Calculated)	69			mg/L		14-JUL-06		
Hardness (as CaCO3)	56			mg/L		14-JUL-06		
Iron (Fe)-Extractable	0.151		0.005	mg/L		12-JUL-06	HAS	R418849
Manganese (Mn)-Extractable	0.019		0.001	mg/L		12-JUL-06	HAS	R418849
Nitrate+Nitrite-N	0.023		0.006	mg/L		11-JUL-06	KMY	R418785
Nitrate-N	0.023		0.006	mg/L		11-JUL-06	KMY	R418785
Nitrite-N	<0.002		0.002	mg/L		11-JUL-06	KMY	R418785
Sulphate (SO4)	28.6		0.05	mg/L		12-JUL-06	JWU	R418352
pH, Conductivity and Total Alkalinity								
pH	7.7		0.1	pH		12-JUL-06	PTT	R419017
Conductivity (EC)	123		0.2	uS/cm		12-JUL-06	PTT	R419017
Bicarbonate (HCO3)	37		5	mg/L		12-JUL-06	PTT	R419017
Carbonate (CO3)	<5		5	mg/L		12-JUL-06	PTT	R419017
Hydroxide (OH)	<5		5	mg/L		12-JUL-06	PTT	R419017
Alkalinity, Total (as CaCO3)	30		5	mg/L		12-JUL-06	PTT	R419017
L409286-8 STATION 7 MACTUNG								
Sampled By: SM on 08-JUL-06 @ 14:00								
Matrix:								
Total Metals								
Total Major Metals								
Calcium (Ca)	15.7		0.5	mg/L		26-JUL-06	DDN	R423910
Potassium (K)	0.6		0.1	mg/L		26-JUL-06	DDN	R423910
Magnesium (Mg)	3.4		0.1	mg/L		26-JUL-06	DDN	R423910
Sodium (Na)	<1		1	mg/L		26-JUL-06	DDN	R423910
Iron (Fe)	1.55		0.005	mg/L		26-JUL-06	DDN	R423910
Manganese (Mn)	0.106		0.001	mg/L		26-JUL-06	DDN	R423910
Total Trace Metals (Low Level)								
Silver (Ag)	<0.0004		0.0004	mg/L		24-JUL-06	QLI	R423033
Aluminum (Al)	2.32		0.02	mg/L		24-JUL-06	QLI	R423033
Arsenic (As)	0.0020		0.0004	mg/L		24-JUL-06	QLI	R423033
Boron (B)	<0.02		0.02	mg/L		24-JUL-06	QLI	R423033

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L409286-8 STATION 7 MACTUNG								
Sampled By: SM on 08-JUL-06 @ 14:00								
Matrix:								
Total Metals								
Total Trace Metals (Low Level)								
Barium (Ba)	0.0606		0.0002	mg/L		24-JUL-06	QLI	R423033
Beryllium (Be)	<0.001		0.001	mg/L		24-JUL-06	QLI	R423033
Bismuth (Bi)	<0.0001		0.0001	mg/L		24-JUL-06	QLI	R423033
Cadmium (Cd)	0.0035		0.0002	mg/L		24-JUL-06	QLI	R423033
Cobalt (Co)	0.0092		0.0002	mg/L		24-JUL-06	QLI	R423033
Chromium (Cr)	0.0013		0.0008	mg/L		24-JUL-06	QLI	R423033
Copper (Cu)	0.044		0.001	mg/L		24-JUL-06	QLI	R423033
Molybdenum (Mo)	0.0007		0.0001	mg/L		24-JUL-06	QLI	R423033
Nickel (Ni)	0.0686		0.0002	mg/L		24-JUL-06	QLI	R423033
Lead (Pb)	0.0004		0.0001	mg/L		24-JUL-06	QLI	R423033
Antimony (Sb)	<0.0004		0.0004	mg/L		24-JUL-06	QLI	R423033
Selenium (Se)	0.0007		0.0004	mg/L		24-JUL-06	QLI	R423033
Tin (Sn)	<0.0004		0.0004	mg/L		24-JUL-06	QLI	R423033
Strontium (Sr)	0.0518		0.0002	mg/L		24-JUL-06	QLI	R423033
Titanium (Ti)	0.019		0.005	mg/L		24-JUL-06	QLI	R423033
Thallium (Tl)	<0.0001		0.0001	mg/L		24-JUL-06	QLI	R423033
Uranium (U)	0.0010		0.0001	mg/L		24-JUL-06	QLI	R423033
Vanadium (V)	0.0041		0.0002	mg/L		24-JUL-06	QLI	R423033
Zinc (Zn)	0.225		0.004	mg/L		24-JUL-06	QLI	R423033
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.247		0.005	mg/L		31-JUL-06	DDN	R425558
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Aluminum (Al)	0.0144		0.0003	mg/L		21-JUL-06	CLL	R423030
Arsenic (As)	0.00016		0.00003	mg/L		21-JUL-06	CLL	R423030
Boron (B)	<0.001		0.001	mg/L		21-JUL-06	CLL	R423030
Barium (Ba)	0.0352		0.00005	mg/L		21-JUL-06	CLL	R423030
Beryllium (Be)	<0.0002		0.0002	mg/L		21-JUL-06	CLL	R423030
Calcium (Ca)	14.0		0.02	mg/L		21-JUL-06	CLL	R423030
Cadmium (Cd)	0.00311		0.00005	mg/L		21-JUL-06	CLL	R423030
Cobalt (Co)	0.0082		0.0001	mg/L		21-JUL-06	CLL	R423030
Chromium (Cr)	<0.00006		0.00006	mg/L		21-JUL-06	CLL	R423030
Copper (Cu)	0.0126		0.0006	mg/L		21-JUL-06	CLL	R423030
Mercury (Hg)	<0.00002		0.00002	mg/L		21-JUL-06	CLL	R423030
Potassium (K)	0.41		0.02	mg/L		21-JUL-06	CLL	R423030
Magnesium (Mg)	3.16		0.004	mg/L		21-JUL-06	CLL	R423030
Manganese (Mn)	0.0871		0.0001	mg/L		21-JUL-06	CLL	R423030
Molybdenum (Mo)	0.00038		0.00006	mg/L		21-JUL-06	CLL	R423030
Sodium (Na)	0.294		0.005	mg/L		21-JUL-06	CLL	R423030
Nickel (Ni)	0.0617		0.00006	mg/L		21-JUL-06	CLL	R423030
Lead (Pb)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Antimony (Sb)	0.00020		0.00003	mg/L		21-JUL-06	CLL	R423030
Selenium (Se)	0.0007		0.0001	mg/L		21-JUL-06	CLL	R423030
Strontium (Sr)	0.0410		0.0001	mg/L		21-JUL-06	CLL	R423030
Uranium (U)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Vanadium (V)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Zinc (Zn)	0.225		0.0008	mg/L		21-JUL-06	CLL	R423030
Ammonia-N	0.007		0.005	mg/L		18-JUL-06	LDC	R420878
Bismuth (Bi)	<0.00003		0.00003	mg/L		21-JUL-06	CLL	R423030

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L409286-8 STATION 7 MACTUNG								
Sampled By: SM on 08-JUL-06 @ 14:00								
Matrix:								
Lithium (Li)	0.0048		0.0001	mg/L		21-JUL-06	CLL	R423030
Lithium (Li)-Total	0.007		0.006	mg/L		24-JUL-06	QLI	R423033
Phosphorus, Total	0.035		0.001	mg/L		21-JUL-06	SHC	R422231
Redox Potential	153		0	mV		12-JUL-06	BOC	R419264
Silicon (Si)-Dissolved	2.0		0.1	mg/L		31-JUL-06	DDN	R425558
Silicon (Si)-Total	2.6		0.1	mg/L		26-JUL-06	DDN	R423910
Tin (Sn)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Total Organic Carbon	1.0		0.5	mg/L		13-JUL-06	ZOW	R418884
Routine Water: Major Ions,F,Fe,Mn - Low								
Chloride (Cl)	<1		1	mg/L		13-JUL-06	WYA	R419033
Fluoride (F)	0.10		0.05	mg/L		12-JUL-06	PTT	R419017
ICP metals for routine water								
Calcium (Ca)	16.2		0.5	mg/L		12-JUL-06	MLH	R418687
Potassium (K)	0.6		0.1	mg/L		12-JUL-06	MLH	R418687
Magnesium (Mg)	3.1		0.1	mg/L		12-JUL-06	MLH	R418687
Sodium (Na)	<1		1	mg/L		12-JUL-06	MLH	R418687
Ion Balance Calculation								
Ion Balance	90.3			%		14-JUL-06		
TDS (Calculated)	75			mg/L		14-JUL-06		
Hardness (as CaCO3)	53			mg/L		14-JUL-06		
Iron (Fe)-Extractable	0.741		0.005	mg/L		12-JUL-06	HAS	R418849
Manganese (Mn)-Extractable	0.096		0.001	mg/L		12-JUL-06	HAS	R418849
Nitrate+Nitrite-N	0.027		0.006	mg/L		11-JUL-06	KMY	R418785
Nitrate-N	0.027		0.006	mg/L		11-JUL-06	KMY	R418785
Nitrite-N	<0.002		0.002	mg/L		11-JUL-06	KMY	R418785
Sulphate (SO4)	51.5		0.05	mg/L		12-JUL-06	JWU	R418352
pH, Conductivity and Total Alkalinity								
pH	6.8		0.1	pH		12-JUL-06	PTT	R419017
Conductivity (EC)	130		0.2	uS/cm		12-JUL-06	PTT	R419017
Bicarbonate (HCO3)	7		5	mg/L		12-JUL-06	PTT	R419017
Carbonate (CO3)	<5		5	mg/L		12-JUL-06	PTT	R419017
Hydroxide (OH)	<5		5	mg/L		12-JUL-06	PTT	R419017
Alkalinity, Total (as CaCO3)	6		5	mg/L		12-JUL-06	PTT	R419017
L409286-9 STATION 8 MACTUNG								
Sampled By: SM on 08-JUL-06 @ 15:00								
Matrix:								
Ultra-Low Metals - Dissolved								
Iron (Fe)	<0.005		0.005	mg/L		31-JUL-06	DDN	R425558
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Aluminum (Al)	0.0147		0.0003	mg/L		21-JUL-06	CLL	R423030
Arsenic (As)	0.00205		0.00003	mg/L		21-JUL-06	CLL	R423030
Boron (B)	<0.001		0.001	mg/L		21-JUL-06	CLL	R423030
Barium (Ba)	0.00909		0.00005	mg/L		21-JUL-06	CLL	R423030
Beryllium (Be)	<0.0002		0.0002	mg/L		21-JUL-06	CLL	R423030
Calcium (Ca)	7.36		0.02	mg/L		21-JUL-06	CLL	R423030
Cadmium (Cd)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Cobalt (Co)	0.0006		0.0001	mg/L		21-JUL-06	CLL	R423030
Chromium (Cr)	<0.00006		0.00006	mg/L		21-JUL-06	CLL	R423030
Copper (Cu)	<0.0006		0.0006	mg/L		21-JUL-06	CLL	R423030

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L409286-9 STATION 8 MACTUNG								
Sampled By: SM on 08-JUL-06 @ 15:00								
Matrix:								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals - Dissolved								
Mercury (Hg)	<0.00002		0.00002	mg/L		21-JUL-06	CLL	R423030
Potassium (K)	0.13		0.02	mg/L		21-JUL-06	CLL	R423030
Magnesium (Mg)	0.544		0.004	mg/L		21-JUL-06	CLL	R423030
Manganese (Mn)	0.0515		0.0001	mg/L		21-JUL-06	CLL	R423030
Molybdenum (Mo)	0.00105		0.00006	mg/L		21-JUL-06	CLL	R423030
Sodium (Na)	0.234		0.005	mg/L		21-JUL-06	CLL	R423030
Nickel (Ni)	0.00293		0.00006	mg/L		21-JUL-06	CLL	R423030
Lead (Pb)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Antimony (Sb)	0.00033		0.00003	mg/L		21-JUL-06	CLL	R423030
Selenium (Se)	0.0002		0.0001	mg/L		21-JUL-06	CLL	R423030
Strontium (Sr)	0.0146		0.0001	mg/L		21-JUL-06	CLL	R423030
Uranium (U)	0.00019		0.00005	mg/L		21-JUL-06	CLL	R423030
Vanadium (V)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Zinc (Zn)	0.0039		0.0008	mg/L		21-JUL-06	CLL	R423030
Ultra-Low Metals								
Iron (Fe)	0.024		0.005	mg/L		31-JUL-06	DDN	R425558
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Aluminum (Al)	0.0398		0.0003	mg/L		21-JUL-06	CLL	R423030
Arsenic (As)	0.00318		0.00003	mg/L		21-JUL-06	CLL	R423030
Boron (B)	<0.001		0.001	mg/L		21-JUL-06	CLL	R423030
Barium (Ba)	0.00953		0.00005	mg/L		21-JUL-06	CLL	R423030
Beryllium (Be)	<0.0002		0.0002	mg/L		21-JUL-06	CLL	R423030
Calcium (Ca)	7.44		0.02	mg/L		21-JUL-06	CLL	R423030
Cadmium (Cd)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Cobalt (Co)	0.0006		0.0001	mg/L		21-JUL-06	CLL	R423030
Chromium (Cr)	<0.00006		0.00006	mg/L		21-JUL-06	CLL	R423030
Copper (Cu)	0.0008		0.0006	mg/L		21-JUL-06	CLL	R423030
Mercury (Hg)	<0.00002		0.00002	mg/L		21-JUL-06	CLL	R423030
Potassium (K)	0.14		0.02	mg/L		21-JUL-06	CLL	R423030
Magnesium (Mg)	0.550		0.004	mg/L		21-JUL-06	CLL	R423030
Manganese (Mn)	0.0545		0.0001	mg/L		21-JUL-06	CLL	R423030
Molybdenum (Mo)	0.00105		0.00006	mg/L		21-JUL-06	CLL	R423030
Sodium (Na)	0.222		0.005	mg/L		21-JUL-06	CLL	R423030
Nickel (Ni)	0.00293		0.00006	mg/L		21-JUL-06	CLL	R423030
Lead (Pb)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Antimony (Sb)	0.00036		0.00003	mg/L		21-JUL-06	CLL	R423030
Selenium (Se)	0.0002		0.0001	mg/L		21-JUL-06	CLL	R423030
Strontium (Sr)	0.0145		0.0001	mg/L		21-JUL-06	CLL	R423030
Uranium (U)	0.00026		0.00005	mg/L		21-JUL-06	CLL	R423030
Vanadium (V)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Zinc (Zn)	0.0028		0.0008	mg/L		21-JUL-06	CLL	R423030
Ammonia-N	<0.005		0.005	mg/L		18-JUL-06	LDC	R420878
Bismuth (Bi)	<0.00003		0.00003	mg/L		21-JUL-06	CLL	R423030
Bismuth (Bi)	<0.00003		0.00003	mg/L		21-JUL-06	CLL	R423030
Lithium (Li)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Lithium (Li)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Phosphorus, Total	0.003		0.001	mg/L		21-JUL-06	SHC	R422231
Redox Potential	140		0	mV		12-JUL-06	BOC	R419264

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L409286-9 STATION 8 MACTUNG								
Sampled By: SM on 08-JUL-06 @ 15:00								
Matrix:								
Silicon (Si)-Dissolved	1.2		0.1	mg/L		31-JUL-06	DDN	R425558
Silicon (Si)-Total	1.2		0.1	mg/L		31-JUL-06	DDN	R425558
Tin (Sn)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Tin (Sn)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Total Organic Carbon	0.8		0.5	mg/L		13-JUL-06	ZOW	R418884
Routine Water: Major Ions,F,Fe,Mn - Low								
Chloride (Cl)	<1		1	mg/L		13-JUL-06	WYA	R419033
Fluoride (F)	0.05		0.05	mg/L		12-JUL-06	PTT	R419017
ICP metals for routine water								
Calcium (Ca)	8.7		0.5	mg/L		12-JUL-06	MLH	R418687
Potassium (K)	0.3		0.1	mg/L		12-JUL-06	MLH	R418687
Magnesium (Mg)	0.4		0.1	mg/L		12-JUL-06	MLH	R418687
Sodium (Na)	<1		1	mg/L		12-JUL-06	MLH	R418687
Ion Balance Calculation								
Ion Balance	Low EC			%		14-JUL-06		
TDS (Calculated)	31			mg/L		14-JUL-06		
Hardness (as CaCO3)	23			mg/L		14-JUL-06		
Iron (Fe)-Extractable	0.009		0.005	mg/L		12-JUL-06	HAS	R418849
Manganese (Mn)-Extractable	0.058		0.001	mg/L		12-JUL-06	HAS	R418849
Nitrate+Nitrite-N	<0.006		0.006	mg/L		11-JUL-06	KMY	R418785
Nitrate-N	<0.006		0.006	mg/L		11-JUL-06	KMY	R418785
Nitrite-N	<0.002		0.002	mg/L		11-JUL-06	KMY	R418785
Sulphate (SO4)	16.3		0.05	mg/L		12-JUL-06	JWU	R418352
pH, Conductivity and Total Alkalinity								
pH	7.2		0.1	pH		12-JUL-06	PTT	R419017
Conductivity (EC)	59.6		0.2	uS/cm		12-JUL-06	PTT	R419017
Bicarbonate (HCO3)	10		5	mg/L		12-JUL-06	PTT	R419017
Carbonate (CO3)	<5		5	mg/L		12-JUL-06	PTT	R419017
Hydroxide (OH)	<5		5	mg/L		12-JUL-06	PTT	R419017
Alkalinity, Total (as CaCO3)	9		5	mg/L		12-JUL-06	PTT	R419017
L409286-10 STATION 8 DUPLICATE MACTUNG								
Sampled By: SM on 08-JUL-06 @ 15:00								
Matrix:								
Ultra-Low Metals - Dissolved								
Iron (Fe)	<0.005		0.005	mg/L		31-JUL-06	DDN	R425558
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Aluminum (Al)	0.0144		0.0003	mg/L		21-JUL-06	CLL	R423030
Arsenic (As)	0.00205		0.00003	mg/L		21-JUL-06	CLL	R423030
Boron (B)	<0.001		0.001	mg/L		21-JUL-06	CLL	R423030
Barium (Ba)	0.00917		0.00005	mg/L		21-JUL-06	CLL	R423030
Beryllium (Be)	<0.0002		0.0002	mg/L		21-JUL-06	CLL	R423030
Calcium (Ca)	7.43		0.02	mg/L		21-JUL-06	CLL	R423030
Cadmium (Cd)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Cobalt (Co)	0.0006		0.0001	mg/L		21-JUL-06	CLL	R423030
Chromium (Cr)	<0.00006		0.00006	mg/L		21-JUL-06	CLL	R423030
Copper (Cu)	0.0006		0.0006	mg/L		21-JUL-06	CLL	R423030
Mercury (Hg)	<0.00002		0.00002	mg/L		21-JUL-06	CLL	R423030
Potassium (K)	0.13		0.02	mg/L		21-JUL-06	CLL	R423030
Magnesium (Mg)	0.549		0.004	mg/L		21-JUL-06	CLL	R423030

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L409286-10 STATION 8 DUPLICATE MACTUNG								
Sampled By: SM on 08-JUL-06 @ 15:00								
Matrix:								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals - Dissolved								
Manganese (Mn)	0.0521		0.0001	mg/L		21-JUL-06	CLL	R423030
Molybdenum (Mo)	0.00103		0.00006	mg/L		21-JUL-06	CLL	R423030
Sodium (Na)	0.235		0.005	mg/L		21-JUL-06	CLL	R423030
Nickel (Ni)	0.00295		0.00006	mg/L		21-JUL-06	CLL	R423030
Lead (Pb)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Antimony (Sb)	0.00032		0.00003	mg/L		21-JUL-06	CLL	R423030
Selenium (Se)	0.0003		0.0001	mg/L		21-JUL-06	CLL	R423030
Strontium (Sr)	0.0146		0.0001	mg/L		21-JUL-06	CLL	R423030
Uranium (U)	0.00018		0.00005	mg/L		21-JUL-06	CLL	R423030
Vanadium (V)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Zinc (Zn)	0.0038		0.0008	mg/L		21-JUL-06	CLL	R423030
Ultra-Low Metals								
Iron (Fe)	0.026		0.005	mg/L		31-JUL-06	DDN	R425558
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Aluminum (Al)	0.0427		0.0003	mg/L		21-JUL-06	CLL	R423030
Arsenic (As)	0.00319		0.00003	mg/L		21-JUL-06	CLL	R423030
Boron (B)	<0.001		0.001	mg/L		21-JUL-06	CLL	R423030
Barium (Ba)	0.00963		0.00005	mg/L		21-JUL-06	CLL	R423030
Beryllium (Be)	<0.0002		0.0002	mg/L		21-JUL-06	CLL	R423030
Calcium (Ca)	7.51		0.02	mg/L		21-JUL-06	CLL	R423030
Cadmium (Cd)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Cobalt (Co)	0.0006		0.0001	mg/L		21-JUL-06	CLL	R423030
Chromium (Cr)	<0.00006		0.00006	mg/L		21-JUL-06	CLL	R423030
Copper (Cu)	0.0008		0.0006	mg/L		21-JUL-06	CLL	R423030
Mercury (Hg)	<0.00002		0.00002	mg/L		21-JUL-06	CLL	R423030
Potassium (K)	0.14		0.02	mg/L		21-JUL-06	CLL	R423030
Magnesium (Mg)	0.552		0.004	mg/L		21-JUL-06	CLL	R423030
Manganese (Mn)	0.0549		0.0001	mg/L		21-JUL-06	CLL	R423030
Molybdenum (Mo)	0.00106		0.00006	mg/L		21-JUL-06	CLL	R423030
Sodium (Na)	0.221		0.005	mg/L		21-JUL-06	CLL	R423030
Nickel (Ni)	0.00293		0.00006	mg/L		21-JUL-06	CLL	R423030
Lead (Pb)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Antimony (Sb)	0.00035		0.00003	mg/L		21-JUL-06	CLL	R423030
Selenium (Se)	0.0003		0.0001	mg/L		21-JUL-06	CLL	R423030
Strontium (Sr)	0.0146		0.0001	mg/L		21-JUL-06	CLL	R423030
Uranium (U)	0.00026		0.00005	mg/L		21-JUL-06	CLL	R423030
Vanadium (V)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Zinc (Zn)	0.0029		0.0008	mg/L		21-JUL-06	CLL	R423030
Ammonia-N	<0.005		0.005	mg/L		18-JUL-06	LDC	R420878
Bismuth (Bi)	<0.00003		0.00003	mg/L		21-JUL-06	CLL	R423030
Bismuth (Bi)	<0.00003		0.00003	mg/L		21-JUL-06	CLL	R423030
Lithium (Li)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Lithium (Li)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Phosphorus, Total	0.002		0.001	mg/L		21-JUL-06	SHC	R422231
Redox Potential	140		0	mV		12-JUL-06	BOC	R419264
Silicon (Si)-Dissolved	1.2		0.1	mg/L		31-JUL-06	DDN	R425558
Silicon (Si)-Total	1.2		0.1	mg/L		31-JUL-06	DDN	R425558
Tin (Sn)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L409286-10 STATION 8 DUPLICATE MACTUNG								
Sampled By: SM on 08-JUL-06 @ 15:00								
Matrix:								
Tin (Sn)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Total Organic Carbon	0.6		0.5	mg/L		13-JUL-06	ZOW	R418884
Routine Water: Major Ions,F,Fe,Mn - Low								
Chloride (Cl)	<1		1	mg/L		13-JUL-06	WYA	R419033
Fluoride (F)	0.05		0.05	mg/L		12-JUL-06	PTT	R419017
ICP metals for routine water								
Calcium (Ca)	8.6		0.5	mg/L		12-JUL-06	MLH	R418687
Potassium (K)	0.3		0.1	mg/L		12-JUL-06	MLH	R418687
Magnesium (Mg)	0.4		0.1	mg/L		12-JUL-06	MLH	R418687
Sodium (Na)	<1		1	mg/L		12-JUL-06	MLH	R418687
Ion Balance Calculation								
Ion Balance	Low EC			%		14-JUL-06		
TDS (Calculated)	30			mg/L		14-JUL-06		
Hardness (as CaCO3)	23			mg/L		14-JUL-06		
Iron (Fe)-Extractable	0.010		0.005	mg/L		12-JUL-06	HAS	R418849
Manganese (Mn)-Extractable	0.061		0.001	mg/L		12-JUL-06	HAS	R418849
Nitrate+Nitrite-N	<0.006		0.006	mg/L		11-JUL-06	KMY	R418785
Nitrate-N	<0.006		0.006	mg/L		11-JUL-06	KMY	R418785
Nitrite-N	<0.002		0.002	mg/L		11-JUL-06	KMY	R418785
Sulphate (SO4)	16.2		0.05	mg/L		12-JUL-06	JWU	R418352
pH, Conductivity and Total Alkalinity								
pH	7.2		0.1	pH		12-JUL-06	PTT	R419017
Conductivity (EC)	58.6		0.2	uS/cm		12-JUL-06	PTT	R419017
Bicarbonate (HCO3)	10		5	mg/L		12-JUL-06	PTT	R419017
Carbonate (CO3)	<5		5	mg/L		12-JUL-06	PTT	R419017
Hydroxide (OH)	<5		5	mg/L		12-JUL-06	PTT	R419017
Alkalinity, Total (as CaCO3)	8		5	mg/L		12-JUL-06	PTT	R419017
L409286-11 FIELD BLANK MACTUNG								
Sampled By: SM on 09-JUL-06 @ 16:00								
Matrix: DI WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	<0.005		0.005	mg/L		31-JUL-06	DDN	R425558
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Aluminum (Al)	<0.0003		0.0003	mg/L		21-JUL-06	CLL	R423030
Arsenic (As)	<0.00003		0.00003	mg/L		21-JUL-06	CLL	R423030
Boron (B)	<0.001		0.001	mg/L		21-JUL-06	CLL	R423030
Barium (Ba)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Beryllium (Be)	<0.0002		0.0002	mg/L		21-JUL-06	CLL	R423030
Calcium (Ca)	0.06	RRV	0.02	mg/L		21-JUL-06	CLL	R423030
Cadmium (Cd)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Cobalt (Co)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Chromium (Cr)	<0.00006		0.00006	mg/L		21-JUL-06	CLL	R423030
Copper (Cu)	<0.0006		0.0006	mg/L		21-JUL-06	CLL	R423030
Mercury (Hg)	<0.00002		0.00002	mg/L		21-JUL-06	CLL	R423030
Potassium (K)	<0.02		0.02	mg/L		21-JUL-06	CLL	R423030
Magnesium (Mg)	<0.004		0.004	mg/L		21-JUL-06	CLL	R423030
Manganese (Mn)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Molybdenum (Mo)	<0.00006		0.00006	mg/L		21-JUL-06	CLL	R423030
Sodium (Na)	0.156	RRV	0.005	mg/L		21-JUL-06	CLL	R423030

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L409286-11 FIELD BLANK MACTUNG								
Sampled By: SM on 09-JUL-06 @ 16:00								
Matrix: DI WATER								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals - Dissolved								
Nickel (Ni)	0.00008	RRV	0.00006	mg/L		21-JUL-06	CLL	R423030
Lead (Pb)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Antimony (Sb)	0.00009	RRV	0.00003	mg/L		21-JUL-06	CLL	R423030
Selenium (Se)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Strontium (Sr)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Uranium (U)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Vanadium (V)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Zinc (Zn)	0.0020	RRV	0.0008	mg/L		21-JUL-06	CLL	R423030
Ultra-Low Metals								
Iron (Fe)	<0.005		0.005	mg/L		31-JUL-06	DDN	R425558
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Aluminum (Al)	<0.0003		0.0003	mg/L		21-JUL-06	CLL	R423030
Arsenic (As)	<0.00003		0.00003	mg/L		21-JUL-06	CLL	R423030
Boron (B)	<0.001		0.001	mg/L		21-JUL-06	CLL	R423030
Barium (Ba)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Beryllium (Be)	<0.0002		0.0002	mg/L		21-JUL-06	CLL	R423030
Calcium (Ca)	<0.02	RRV	0.02	mg/L		21-JUL-06	CLL	R423030
Cadmium (Cd)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Cobalt (Co)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Chromium (Cr)	<0.00006		0.00006	mg/L		21-JUL-06	CLL	R423030
Copper (Cu)	<0.0006		0.0006	mg/L		21-JUL-06	CLL	R423030
Mercury (Hg)	<0.00002		0.00002	mg/L		21-JUL-06	CLL	R423030
Potassium (K)	<0.02		0.02	mg/L		21-JUL-06	CLL	R423030
Magnesium (Mg)	<0.004		0.004	mg/L		21-JUL-06	CLL	R423030
Manganese (Mn)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Molybdenum (Mo)	<0.00006		0.00006	mg/L		21-JUL-06	CLL	R423030
Sodium (Na)	0.148	RRV	0.005	mg/L		21-JUL-06	CLL	R423030
Nickel (Ni)	<0.00006		0.00006	mg/L		21-JUL-06	CLL	R423030
Lead (Pb)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Antimony (Sb)	0.00008	RRV	0.00003	mg/L		21-JUL-06	CLL	R423030
Selenium (Se)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Strontium (Sr)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Uranium (U)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Vanadium (V)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Zinc (Zn)	<0.0008	RRV	0.0008	mg/L		21-JUL-06	CLL	R423030
Ammonia-N	<0.005		0.005	mg/L		18-JUL-06	LDC	R420878
Bismuth (Bi)	<0.00003		0.00003	mg/L		21-JUL-06	CLL	R423030
Bismuth (Bi)	<0.00003		0.00003	mg/L		21-JUL-06	CLL	R423030
Lithium (Li)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Lithium (Li)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Phosphorus, Total	<0.001		0.001	mg/L		21-JUL-06	SHC	R422231
Redox Potential	142		0	mV		12-JUL-06	BOC	R419264
Silicon (Si)-Dissolved	<0.1		0.1	mg/L		31-JUL-06	DDN	R425558
Silicon (Si)-Total	<0.1		0.1	mg/L		31-JUL-06	DDN	R425558
Tin (Sn)	0.0006		0.0001	mg/L		21-JUL-06	CLL	R423030
Tin (Sn)	0.0005	RRV	0.0001	mg/L		21-JUL-06	CLL	R423030
Total Organic Carbon	<0.5		0.5	mg/L		13-JUL-06	ZOW	R418884
Routine Water: Major Ions,F,Fe,Mn - Low								

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L409286-11 FIELD BLANK MACTUNG								
Sampled By: SM on 09-JUL-06 @ 16:00								
Matrix: DI WATER								
Routine Water: Major Ions,F,Fe,Mn - Low								
Chloride (Cl)	1		1	mg/L		13-JUL-06	WYA	R419033
Fluoride (F)	<0.05		0.05	mg/L		12-JUL-06	PTT	R419017
ICP metals for routine water								
Calcium (Ca)	<0.5		0.5	mg/L		14-JUL-06	MLH	R419519
Potassium (K)	<0.1		0.1	mg/L		14-JUL-06	MLH	R419519
Magnesium (Mg)	<0.1		0.1	mg/L		14-JUL-06	MLH	R419519
Sodium (Na)	<1		1	mg/L		14-JUL-06	MLH	R419519
Ion Balance Calculation								
Ion Balance	Low EC			%		17-JUL-06		
TDS (Calculated)	1			mg/L		17-JUL-06		
Hardness (as CaCO3)	<1			mg/L		17-JUL-06		
Iron (Fe)-Extractable	<0.005		0.005	mg/L		12-JUL-06	HAS	R418849
Manganese (Mn)-Extractable	<0.001		0.001	mg/L		12-JUL-06	HAS	R418849
Nitrate+Nitrite-N	<0.006		0.006	mg/L		11-JUL-06	KMY	R418785
Nitrate-N	<0.006		0.006	mg/L		11-JUL-06	KMY	R418785
Nitrite-N	<0.002		0.002	mg/L		11-JUL-06	KMY	R418785
Sulphate (SO4)	<0.05		0.05	mg/L		12-JUL-06	JWU	R418352
pH, Conductivity and Total Alkalinity								
pH	6.1		0.1	pH		12-JUL-06	PTT	R419017
Conductivity (EC)	1.1		0.2	uS/cm		12-JUL-06	PTT	R419017
Bicarbonate (HCO3)	<5		5	mg/L		12-JUL-06	PTT	R419017
Carbonate (CO3)	<5		5	mg/L		12-JUL-06	PTT	R419017
Hydroxide (OH)	<5		5	mg/L		12-JUL-06	PTT	R419017
Alkalinity, Total (as CaCO3)	<5		5	mg/L		12-JUL-06	PTT	R419017
L409286-12 TRIP BLANK MACTUNG								
Sampled By: SM								
Matrix:								
Ultra-Low Metals - Dissolved								
Iron (Fe)	<0.005		0.005	mg/L		31-JUL-06	DDN	R425558
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Aluminum (Al)	<0.0003		0.0003	mg/L		21-JUL-06	CLL	R423030
Arsenic (As)	<0.00003		0.00003	mg/L		21-JUL-06	CLL	R423030
Boron (B)	<0.001		0.001	mg/L		21-JUL-06	CLL	R423030
Barium (Ba)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Beryllium (Be)	<0.0002		0.0002	mg/L		21-JUL-06	CLL	R423030
Calcium (Ca)	<0.02		0.02	mg/L		21-JUL-06	CLL	R423030
Cadmium (Cd)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Cobalt (Co)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Chromium (Cr)	<0.00006		0.00006	mg/L		21-JUL-06	CLL	R423030
Copper (Cu)	<0.0006		0.0006	mg/L		21-JUL-06	CLL	R423030
Mercury (Hg)	<0.00002		0.00002	mg/L		21-JUL-06	CLL	R423030
Potassium (K)	<0.02		0.02	mg/L		21-JUL-06	CLL	R423030
Magnesium (Mg)	<0.004		0.004	mg/L		21-JUL-06	CLL	R423030
Manganese (Mn)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Molybdenum (Mo)	<0.00006		0.00006	mg/L		21-JUL-06	CLL	R423030
Sodium (Na)	<0.005		0.005	mg/L		21-JUL-06	CLL	R423030
Nickel (Ni)	<0.00006		0.00006	mg/L		21-JUL-06	CLL	R423030
Lead (Pb)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Antimony (Sb)	0.00014		0.00003	mg/L		21-JUL-06	CLL	R423030
Selenium (Se)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L409286-12 TRIP BLANK MACTUNG								
Sampled By: SM								
Matrix:								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals - Dissolved								
Strontium (Sr)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Uranium (U)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Vanadium (V)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Zinc (Zn)	<0.0008		0.0008	mg/L		21-JUL-06	CLL	R423030
Ultra-Low Metals								
Iron (Fe)	<0.005		0.005	mg/L		31-JUL-06	DDN	R425558
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Aluminum (Al)	<0.0003		0.0003	mg/L		21-JUL-06	CLL	R423030
Arsenic (As)	<0.00003		0.00003	mg/L		21-JUL-06	CLL	R423030
Boron (B)	<0.001		0.001	mg/L		21-JUL-06	CLL	R423030
Barium (Ba)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Beryllium (Be)	<0.0002		0.0002	mg/L		21-JUL-06	CLL	R423030
Calcium (Ca)	<0.02		0.02	mg/L		21-JUL-06	CLL	R423030
Cadmium (Cd)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Cobalt (Co)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Chromium (Cr)	<0.00006		0.00006	mg/L		21-JUL-06	CLL	R423030
Copper (Cu)	<0.0006		0.0006	mg/L		21-JUL-06	CLL	R423030
Mercury (Hg)	<0.00002		0.00002	mg/L		21-JUL-06	CLL	R423030
Potassium (K)	<0.02		0.02	mg/L		21-JUL-06	CLL	R423030
Magnesium (Mg)	<0.004		0.004	mg/L		21-JUL-06	CLL	R423030
Manganese (Mn)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Molybdenum (Mo)	<0.00006		0.00006	mg/L		21-JUL-06	CLL	R423030
Sodium (Na)	<0.005		0.005	mg/L		21-JUL-06	CLL	R423030
Nickel (Ni)	<0.00006		0.00006	mg/L		21-JUL-06	CLL	R423030
Lead (Pb)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Antimony (Sb)	0.00015		0.00003	mg/L		21-JUL-06	CLL	R423030
Selenium (Se)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Strontium (Sr)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Uranium (U)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Vanadium (V)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Zinc (Zn)	<0.0008		0.0008	mg/L		21-JUL-06	CLL	R423030
Ammonia-N	<0.005		0.005	mg/L		18-JUL-06	LDC	R420878
Bismuth (Bi)	<0.00003		0.00003	mg/L		21-JUL-06	CLL	R423030
Bismuth (Bi)	<0.00003		0.00003	mg/L		21-JUL-06	CLL	R423030
Lithium (Li)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Lithium (Li)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Phosphorus, Total	<0.001		0.001	mg/L		21-JUL-06	SHC	R422231
Redox Potential	172		0	mV		12-JUL-06	BOC	R419264
Silicon (Si)-Dissolved	<0.1		0.1	mg/L		31-JUL-06	DDN	R425558
Silicon (Si)-Total	<0.1		0.1	mg/L		31-JUL-06	DDN	R425558
Tin (Sn)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Tin (Sn)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Total Organic Carbon	<0.5		0.5	mg/L		13-JUL-06	ZOW	R418884
Routine Water: Major Ions,F,Fe,Mn - Low								
Chloride (Cl)	<1		1	mg/L		13-JUL-06	WYA	R419033
Fluoride (F)	<0.05		0.05	mg/L		12-JUL-06	PTT	R419017
ICP metals for routine water								

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L409286-12 TRIP BLANK MACTUNG								
Sampled By: SM								
Matrix:								
Routine Water: Major Ions,F,Fe,Mn - Low								
ICP metals for routine water								
Calcium (Ca)	<0.5		0.5	mg/L		12-JUL-06	MLH	R418687
Potassium (K)	<0.1		0.1	mg/L		12-JUL-06	MLH	R418687
Magnesium (Mg)	<0.1		0.1	mg/L		12-JUL-06	MLH	R418687
Sodium (Na)	<1		1	mg/L		12-JUL-06	MLH	R418687
Ion Balance Calculation								
Ion Balance	Low TDS			%		14-JUL-06		
TDS (Calculated)	<1			mg/L		14-JUL-06		
Hardness (as CaCO3)	<1			mg/L		14-JUL-06		
Iron (Fe)-Extractable	<0.005		0.005	mg/L		12-JUL-06	HAS	R418849
Manganese (Mn)-Extractable	<0.001		0.001	mg/L		12-JUL-06	HAS	R418849
Nitrate+Nitrite-N	<0.006		0.006	mg/L		11-JUL-06	KMY	R418785
Nitrate-N	<0.006		0.006	mg/L		11-JUL-06	KMY	R418785
Nitrite-N	<0.002		0.002	mg/L		11-JUL-06	KMY	R418785
Sulphate (SO4)	<0.05		0.05	mg/L		12-JUL-06	JWU	R418352
pH, Conductivity and Total Alkalinity								
pH	5.5		0.1	pH		12-JUL-06	PTT	R419017
Conductivity (EC)	1.1		0.2	uS/cm		12-JUL-06	PTT	R419017
Bicarbonate (HCO3)	<5		5	mg/L		12-JUL-06	PTT	R419017
Carbonate (CO3)	<5		5	mg/L		12-JUL-06	PTT	R419017
Hydroxide (OH)	<5		5	mg/L		12-JUL-06	PTT	R419017
Alkalinity, Total (as CaCO3)	<5		5	mg/L		12-JUL-06	PTT	R419017
L409286-13 FILTER BLANK MACTUNG								
Sampled By: SM								
Matrix:								
Ultra-Low Metals - Dissolved								
Iron (Fe)	<0.005		0.005	mg/L		31-JUL-06	DDN	R425558
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Aluminum (Al)	0.0007		0.0003	mg/L		21-JUL-06	CLL	R423030
Arsenic (As)	<0.00003		0.00003	mg/L		21-JUL-06	CLL	R423030
Boron (B)	<0.001		0.001	mg/L		21-JUL-06	CLL	R423030
Barium (Ba)	0.00018		0.00005	mg/L		21-JUL-06	CLL	R423030
Beryllium (Be)	<0.0002		0.0002	mg/L		21-JUL-06	CLL	R423030
Calcium (Ca)	0.20		0.02	mg/L		21-JUL-06	CLL	R423030
Cadmium (Cd)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Cobalt (Co)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Chromium (Cr)	0.00042		0.00006	mg/L		21-JUL-06	CLL	R423030
Copper (Cu)	<0.0006		0.0006	mg/L		21-JUL-06	CLL	R423030
Mercury (Hg)	<0.00002		0.00002	mg/L		21-JUL-06	CLL	R423030
Potassium (K)	0.02		0.02	mg/L		21-JUL-06	CLL	R423030
Magnesium (Mg)	0.005		0.004	mg/L		21-JUL-06	CLL	R423030
Manganese (Mn)	0.0002		0.0001	mg/L		21-JUL-06	CLL	R423030
Molybdenum (Mo)	<0.00006		0.00006	mg/L		21-JUL-06	CLL	R423030
Sodium (Na)	0.168		0.005	mg/L		21-JUL-06	CLL	R423030
Nickel (Ni)	0.00100		0.00006	mg/L		21-JUL-06	CLL	R423030
Lead (Pb)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Antimony (Sb)	0.00073		0.00003	mg/L		21-JUL-06	CLL	R423030
Selenium (Se)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Strontium (Sr)	0.0004		0.0001	mg/L		21-JUL-06	CLL	R423030
Uranium (U)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L409286-13 FILTER BLANK MACTUNG								
Sampled By: SM								
Matrix:								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals - Dissolved								
Vanadium (V)	<0.00005		0.00005	mg/L		21-JUL-06	CLL	R423030
Zinc (Zn)	0.0080		0.0008	mg/L		21-JUL-06	CLL	R423030
Bismuth (Bi)	<0.00003		0.00003	mg/L		21-JUL-06	CLL	R423030
Lithium (Li)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030
Silicon (Si)-Dissolved	<0.1		0.1	mg/L		31-JUL-06	DDN	R425558
Tin (Sn)	<0.0001		0.0001	mg/L		21-JUL-06	CLL	R423030

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
RRV	Reported Result Verified By Repeat Analysis

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Preparation Method Reference(Based On)	Analytical Method Reference(Based On)
BI-ULTRA-DIS-ED	Water	Bismuth (Bi)-Dissolved		EPA 6020
BI-ULTRA-ED	Water	Bismuth (Bi)		EPA 6020
C-TOT-ORG-LOW-ED	Water	Total Organic Carbon		APHA 5310 B-Instrumental
CL-ED	Water	Chloride (Cl)		APHA 4500 Cl E-Colorimetry
ETL-ROUTINE-LOW-ED	Water	ICP metals for routine water		APHA 3120 B-ICP/OES
F-ED	Water	Fluoride (F)		APHA 4500 F-C-Electrode
FE-EXT-ED	Water	Iron (Fe)-Extractable		EPA 200.7
IONBALANCE-ED	Water	Ion Balance Calculation		APHA 1030E
LI-TOT-LOW-ED	Water	Lithium (Li)-Total	EPA3015	EPA 6020
LI-ULTRA-DIS-ED	Water	Lithium (Li)-Dissolved		EPA 6020
LI-ULTRA-ED	Water	Lithium (Li)		EPA 6020
MET1-TOT-LOW-ED	Water	Total Trace Metals (Low Level)	EPA3015	EPA 6020
MET1-ULTRA-DIS-ED	Water	Ultra-Low Metals - Dissolved		EPA 6020
MET1-ULTRA-ED	Water	Ultra-Low Metals		EPA 6020
MET2-TOT-LOW-ED	Water	Total Major Metals	EPA3015	EPA 200.7
MET2-ULTRA-DIS-ED	Water	Major Metals - Dissolved		EPA 200.7
MET2-ULTRA-ED	Water	Major Metals		EPA 200.7
MN-EXT-ED	Water	Manganese (Mn)-Extractable		EPA 200.7
N2N3-LOW-ED	Water	Nitrate+Nitrite-N		APHA 4500 NO3E-Colorimetry
NH4-LOW-ED	Water	Ammonia-N		APHA 4500 NH3F-Colorimetry
NO2-LOW-ED	Water	Nitrite-N		APHA 4500 NO2B-Colorimetry
NO3-LOW-ED	Water	Nitrate-N		APHA 4500 NO3H-Colorimetry
P-TOTAL-LOW-ED	Water	Phosphorus, Total		APHA 4500 P B,E-Auto-Colorimetry
PH/EC/ALK-ED	Water	pH, Conductivity and Total Alkalinity		APHA 4500-H, 2510, 2320
REDOX-POTENTIAL-ED	Water	Redox Potential		APHA 2580 B
SI-DIS-ED	Water	Silicon (Si)-Dissolved		EPA 200.7
SI-TOT-ED	Water	Silicon (Si)-Total	EPA3015	EPA 200.7
SN-ULTRA-DIS-ED	Water	Tin (Sn)-Dissolved		EPA 6020
SN-ULTRA-ED	Water	Tin (Sn)		EPA 6020
SO4-LOW-ED	Water	Sulfate (SO4)		APHA 4110 B-Ion Chromatography

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

Chain of Custody numbers:

153693 58042

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
ED	ALS LABORATORY GROUP - EDMONTON, ALBERTA, CANADA		

Reference Information

GLOSSARY OF REPORT TERMS
Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.
The reported surrogate recovery value provides a measure of method efficiency. The Laboratory control limits are determined under column heading D.L.
mg/kg (units) - unit of concentration based on mass, parts per million.
mg/L (units) - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
UNLESS OTHERWISE STATED, SAMPLES ARE NOT CORRECTED FOR CLIENT FIELD BLANKS.
Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

ETL EnviroTest

A DIVISION OF ETL CHEMSPEC ANALYTICAL LIMITED

CHAIN OF CUSTODY / ANALYTICAL REQUEST FORM

CANADA TOLL FREE 1-800-668-9878

COC # 58042

www.envirotest.com

DATE: July 10/06

ETL LAB WORK ORDER # L4009280

REPORT TO:

COMPANY: EBA Engineering Ltd.

CONTACT: Steve Moore

ADDRESS: PO Box 2244, 201 4916 - 49 Street, Yellowknife, NT

PHONE: 867-920-2287 FAX: 867-873-3324

REPORT DISTRIBUTION: ALL FINAL RESULTS WILL BE MAILED

EMAIL ☒ FAX ☐

EMAIL 1: SMOORE@EBA.CA

EMAIL 2: KLanglois@EBA.CA

SELECT: pdf ☒ digital ☐ both ☒

SERVICE REQUESTED

☑ REGULAR SERVICE (DEFAULT)

☐ PRIORITY SERVICE (50% SURCHARGE)

☐ EMERGENCY SERVICE (100% SURCHARGE)

INVOICE TO: SAME ○ N

COMPANY:

CONTACT:

ADDRESS:

PHONE: FAX:

JOB # ~~Yellowknife~~ 1200163.005

PO / AFE:

LSD:

QUOTE # Q13030

ANALYSIS REQUEST

INDICATE BOTTLES: FILTERED/PRESERVED (F/P) ▶

SAMPLE ID	SAMPLING LOCATION	SAMPLED BY / DATE / TIME	SAMPLING METHOD	SAMPLE TYPE	Ultra-Low Metals	Ls Total	Ls Dissolved	TOC	Low-level Nutrients	Low-level Routine				HAZARDOUS? (Y/N)	NUMBER OF CONTAINERS	HIGHLY CONTAMINATED? (Y/N)	LAB SAMPLE #
Station 1	1 MacTung SM	July 8/06 5:00 PM			✓	✓	✓	✓	✓	✓							
" 2	2 "	" July 7/06 5:00 PM			✓	✓	✓	✓	✓	✓							
" 3	3 "	" " 3:00 PM			✓	✓	✓	✓	✓	✓							
" 3 Duplicate	3 "	" " 3:00 PM			✓	✓	✓	✓	✓	✓							
" 4	4 "	" " 4:00 PM			✓	✓	✓	✓	✓	✓							
" 5	5 "	" July 8/06 4:00 PM			✓	✓	✓	✓	✓	✓							
" 6	6 "	" " 1:00 PM			✓	✓	✓	✓	✓	✓							
" 7	7 "	" " 2:00 PM			✓	✓	✓	✓	✓	✓							
" 8	8 "	" " 3:00 PM			✓	✓	✓	✓	✓	✓							
" 8 Duplicate	8 "	" " 3:00 PM			✓	✓	✓	✓	✓	✓							

NOTES & CONDITIONS:

1. Quote number must be provided to ensure proper pricing.
2. Turnaround times will vary dependent on complexity of analysis & Lab workload at time of submission. Please contact the Lab to confirm turnaround time.
3. All hazardous samples submitted must be labeled to comply with WHMIS and TDG regulations. This must include the nature of the hazard, as well as a contact name & phone number that the Lab can contact for further information.

NOTE: Failure to properly complete all portions of this form may delay analysis.

GUIDELINES / REGULATIONS

CCME Guidelines

SPECIAL INSTRUCTIONS / NATURE OF HAZARDOUS MATERIAL

SAMPLE CONDITION

☐ FROZEN ☐ COLD ☐ AMBIENT

MEAN TEMPERATURE

RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	SAMPLE CONDITION ACCEPTABLE UPON RECEIPT? (Y/N)
Steve Moore	July 10/06 11:00 am			
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	

REFER TO BACK FOR SAMPLING INFORMATION & REGIONAL LOCATIONS

WHITE - REPORT COPY, PINK - FILE COPY, YELLOW - CLIENT COPY

REVISED MAY 2003

ETL EnviroTest

A DIVISION OF ETL CHEMSPEC ANALYTICAL LIMITED

CHAIN OF CUSTODY / ANALYTICAL REQUEST FORM

CANADA TOLL FREE 1-800-668-9878

COC # 159693

www.envirotest.com

DATE: July 10/06

ETL LAB WORK ORDER #

REPORT TO:

COMPANY: EBA Engineering

CONTACT: Steve Moore

ADDRESS: PO Box 2244, 201 4916 - 49 St., Yellowknife, NT

PHONE: 867-920-2289 FAX: 876-873-3324

REPORT DISTRIBUTION: ALL FINAL RESULTS WILL BE MAILED

EMAIL [X] FAX [ ]

EMAIL 1: SMOORE@EBA.CA

EMAIL 2: KLangfors@EBA.CA

SELECT: pdf [ ] digital [ ] both [X]

SERVICE REQUESTED

[X] REGULAR SERVICE (DEFAULT)

[ ] PRIORITY SERVICE (50% SURCHARGE)

[ ] EMERGENCY SERVICE (100% SURCHARGE)

INVOICE TO: SAME Y / N

COMPANY:

CONTACT:

ADDRESS:

PHONE: FAX:

INDICATE BOTTLES: FILTERED/PRESERVED (F/P) ▶

JOB # 1200163.005

PO / AFE:

LSD:

QUOTE # Q13030

ANALYSIS REQUEST

SAMPLE ID	SAMPLING LOCATION	SAMPLED BY / DATE / TIME	SAMPLING METHOD	SAMPLE TYPE	Ultra-Low Level	↳ Total Metals	↳ Dissolved Metals	TOC	Low-level Nutrients	Low-level Routine	HAZARDOUS? (Y/N)	NUMBER OF CONTAINERS	HIGHLY CONTAMINATED? (Y/N)	LAB SAMPLE #
Field Blank	MacTung	SM/July 9/06/4:00PM	DI Water	DI Water		✓	✓	✓	✓	✓				
Trip "	"		N/A	N/A		✓	✓	✓	✓	✓				
Filter "	"		N/A	N/A		✓	✓							

NOTES & CONDITIONS:

1. Quote number must be provided to ensure proper pricing.
2. Turnaround times will vary dependent on complexity of analysis & Lab workload at time of submission. Please contact the Lab to confirm turnaround time.
3. All hazardous samples submitted must be labeled to comply with WHMIS and TDG regulations. This must include the nature of the hazard, as well as a contact name & phone number that the Lab can contact for further information.

NOTE: Failure to properly complete all portions of this form may delay analysis.

GUIDELINES / REGULATIONS

CCME Guidelines

SPECIAL INSTRUCTIONS / NATURE OF HAZARDOUS MATERIAL

SAMPLE CONDITION

[ ] FROZEN [ ] COLD [ ] AMBIENT

MEAN TEMPERATURE

RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	SAMPLE CONDITION ACCEPTABLE UPON RECEIPT? (Y/N)
Steve Moore	July 10/06 11:20 am			
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	

ALS Laboratory Group
A Division of ETL Chemspec Analytical Limited
Toll Free1-800-668-9878
9936-67 Avenue, Edmonton, AB T6E 0P5
Phone: +1 780 413 5227 Fax: +1 780 437 2311 www.alsglobal.com

ALS LABORATORY GROUP ANALYTICAL CONFIRMATION SHEET

Company:	EBA ENG CONSULTANTS LTD
ATTN:	STEVE MOORE/KEVIN LANGLOIS
Fax Number:	867-873-3324
Project Manager:	CATHERINE EVARISTO-CORDERO
Job Reference:	1200163
Project P.O. #:	
Date Sampled:	06-AUG-06
Date Received:	10-AUG-06
Estimated Completion Date:	16-AUG-06
Sampled By:	SM/KL
Workorder #:	**L420382**
Chain of Custody #:	261004 261005

Sample #/SampleID/SampledBy/DateDue: L420382-1/STATION 1 MACTUNG/SM/KL/16-AUG-06

Matrix	Product Description	Product Due*
Water	Routine Water Analysis	
	Chloride (Cl)	
	ICP metals and SO4 for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
Water	Ammonia-N	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	23-AUG-06
	Ultra-Low Metals	23-AUG-06
	Major Metals	23-AUG-06
	Metal Setup (Ultra-Low ICPMS)	23-AUG-06
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	23-AUG-06
	Ultra-Low Metals - Dissolved	23-AUG-06
	Major Metals - Dissolved	23-AUG-06
	Metal Setup (Ultra-Low ICPMS)	23-AUG-06

Sample #/SampleID/SampledBy/DateDue: L420382-2/STATION 2 MACTUNG/SM/KL/16-AUG-06

Matrix	Product Description	Product Due*
Water	Routine Water Analysis	
	Chloride (Cl)	
	ICP metals and SO4 for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
Water	Ammonia-N	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	23-AUG-06
	Ultra-Low Metals	23-AUG-06
	Major Metals	23-AUG-06

	Metal Setup (Ultra-Low ICPMS)	23-AUG-06
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	23-AUG-06
	Ultra-Low Metals - Dissolved	23-AUG-06
	Major Metals - Dissolved	23-AUG-06
	Metal Setup (Ultra-Low ICPMS)	23-AUG-06

Sample #/SampleID/SampledBy/DateDue: L420382-3/STATION 3 MACTUNG/SM/KL/16-AUG-06

Matrix	Product Description	Product Due*
Water	Routine Water Analysis	
	Chloride (Cl)	
	ICP metals and SO4 for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
Water	Ammonia-N	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	23-AUG-06
	Ultra-Low Metals	23-AUG-06
	Major Metals	23-AUG-06
	Metal Setup (Ultra-Low ICPMS)	23-AUG-06
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	23-AUG-06
	Ultra-Low Metals - Dissolved	23-AUG-06
	Major Metals - Dissolved	23-AUG-06
	Metal Setup (Ultra-Low ICPMS)	23-AUG-06

Sample #/SampleID/SampledBy/DateDue: L420382-4/STATION 3 DUP MACTUNG/SM/KL/16-AUG-06

Matrix	Product Description	Product Due*
Water	Routine Water Analysis	
	Chloride (Cl)	
	ICP metals and SO4 for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
Water	Ammonia-N	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	23-AUG-06
	Ultra-Low Metals	23-AUG-06
	Major Metals	23-AUG-06
	Metal Setup (Ultra-Low ICPMS)	23-AUG-06
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	23-AUG-06
	Ultra-Low Metals - Dissolved	23-AUG-06
	Major Metals - Dissolved	23-AUG-06
	Metal Setup (Ultra-Low ICPMS)	23-AUG-06

Sample #/SampleID/SampledBy/DateDue: L420382-5/STATION 4 MACTUNG/SM/KL/16-AUG-06

Matrix	Product Description	Product Due*
Water	Routine Water Analysis	
	Chloride (Cl)	
	ICP metals and SO4 for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
Water	Ammonia-N	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	23-AUG-06
	Ultra-Low Metals	23-AUG-06
	Major Metals	23-AUG-06
	Metal Setup (Ultra-Low ICPMS)	23-AUG-06
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	23-AUG-06
	Ultra-Low Metals - Dissolved	23-AUG-06
	Major Metals - Dissolved	23-AUG-06
	Metal Setup (Ultra-Low ICPMS)	23-AUG-06

Sample #/SampleID/SampledBy/DateDue: L420382-6/STATION 5 MACTUNG/SM/KL/16-AUG-06

Matrix	Product Description	Product Due*
Water	Routine Water Analysis	
	Chloride (Cl)	
	ICP metals and SO4 for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
Water	Ammonia-N	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	23-AUG-06
	Ultra-Low Metals	23-AUG-06
	Major Metals	23-AUG-06
	Metal Setup (Ultra-Low ICPMS)	23-AUG-06
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	23-AUG-06
	Ultra-Low Metals - Dissolved	23-AUG-06
	Major Metals - Dissolved	23-AUG-06
	Metal Setup (Ultra-Low ICPMS)	23-AUG-06

Sample #/SampleID/SampledBy/DateDue: L420382-7/STATION 6 MACTUNG/SM/KL/16-AUG-06

Matrix	Product Description	Product Due*
Water	Routine Water Analysis	
	Chloride (Cl)	
	ICP metals and SO4 for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	

Water	Ammonia-N	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	23-AUG-06
	Ultra-Low Metals	23-AUG-06
	Major Metals	23-AUG-06
	Metal Setup (Ultra-Low ICPMS)	23-AUG-06
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	23-AUG-06
	Ultra-Low Metals - Dissolved	23-AUG-06
	Major Metals - Dissolved	23-AUG-06
	Metal Setup (Ultra-Low ICPMS)	23-AUG-06

Sample #/SampleID/SampledBy/DateDue: L420382-8/STATION 7 MACTUNG/SM/KL/16-AUG-06

Matrix	Product Description	Product Due*
Water	Routine Water Analysis	
	Chloride (Cl)	
	ICP metals and SO4 for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
Water	Ammonia-N	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	23-AUG-06
	Ultra-Low Metals	23-AUG-06
	Major Metals	23-AUG-06
	Metal Setup (Ultra-Low ICPMS)	23-AUG-06
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	23-AUG-06
	Ultra-Low Metals - Dissolved	23-AUG-06
	Major Metals - Dissolved	23-AUG-06
	Metal Setup (Ultra-Low ICPMS)	23-AUG-06

Sample #/SampleID/SampledBy/DateDue: L420382-9/STATION 8 MACTUNG/SM/KL/16-AUG-06

Matrix	Product Description	Product Due*
Water	Routine Water Analysis	
	Chloride (Cl)	
	ICP metals and SO4 for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
Water	Ammonia-N	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	23-AUG-06
	Ultra-Low Metals	23-AUG-06
	Major Metals	23-AUG-06
	Metal Setup (Ultra-Low ICPMS)	23-AUG-06
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	23-AUG-06
	Ultra-Low Metals - Dissolved	23-AUG-06
	Major Metals - Dissolved	23-AUG-06

	Metal Setup (Ultra-Low ICPMS)	23-AUG-06

Sample #/SampleID/SampledBy/DateDue: L420382-10/STATION 8 DUP MACTUNG/SM/KL/16-AUG-06

Matrix	Product Description	Product Due*
Water	Routine Water Analysis	
	Chloride (Cl)	
	ICP metals and SO4 for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
Water	Ammonia-N	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	23-AUG-06
	Ultra-Low Metals	23-AUG-06
	Major Metals	23-AUG-06
	Metal Setup (Ultra-Low ICPMS)	23-AUG-06
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	23-AUG-06
	Ultra-Low Metals - Dissolved	23-AUG-06
	Major Metals - Dissolved	23-AUG-06
	Metal Setup (Ultra-Low ICPMS)	23-AUG-06

Sample #/SampleID/SampledBy/DateDue: L420382-11/STATION 9 MACTUNG/SM/KL/16-AUG-06

Matrix	Product Description	Product Due*
Water	Routine Water Analysis	
	Chloride (Cl)	
	ICP metals and SO4 for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
Water	Ammonia-N	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	23-AUG-06
	Ultra-Low Metals	23-AUG-06
	Major Metals	23-AUG-06
	Metal Setup (Ultra-Low ICPMS)	23-AUG-06
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	23-AUG-06
	Ultra-Low Metals - Dissolved	23-AUG-06
	Major Metals - Dissolved	23-AUG-06
	Metal Setup (Ultra-Low ICPMS)	23-AUG-06

Sample #/SampleID/SampledBy/DateDue: L420382-12/FIELD BLANK MACTUNG/SM/KL/16-AUG-06

Matrix	Product Description	Product Due*
Water	Routine Water Analysis	
	Chloride (Cl)	

	ICP metals and SO4 for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
Water	Ammonia-N	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	23-AUG-06
	Ultra-Low Metals	23-AUG-06
	Major Metals	23-AUG-06
	Metal Setup (Ultra-Low ICPMS)	23-AUG-06
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	23-AUG-06
	Ultra-Low Metals - Dissolved	23-AUG-06
	Major Metals - Dissolved	23-AUG-06
	Metal Setup (Ultra-Low ICPMS)	23-AUG-06

Sample #/SampleID/SampledBy/DateDue: L420382-13/TRAVEL BLANK MACTUNG//16-AUG-06

Matrix	Product Description	Product Due*
Water	Routine Water Analysis	
	Chloride (Cl)	
	ICP metals and SO4 for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
Water	Ammonia-N	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	23-AUG-06
	Ultra-Low Metals	23-AUG-06
	Major Metals	23-AUG-06
	Metal Setup (Ultra-Low ICPMS)	23-AUG-06
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	23-AUG-06
	Ultra-Low Metals - Dissolved	23-AUG-06
	Major Metals - Dissolved	23-AUG-06
	Metal Setup (Ultra-Low ICPMS)	23-AUG-06

Sample #/SampleID/SampledBy/DateDue: L420382-14/FILTER BLANK MACTUNG//16-AUG-06

Matrix	Product Description	Product Due*
Misc.	Handling/Disposal Fee	
Misc.	Sample not received	

* INDICATES ESTIMATED COMPLETION DATE OF REQUESTED PRODUCT IF DIFFERENT THAN THE ESTIMATED COMPLETION DATE.

ALS Laboratory Group strives to deliver on-time results to our clients at all times. However, there are times when, due to capacity issues or other unforeseen circumstances, we are unable to meet our expected TATs. The information above is related to a recent workorder you have submitted to our laboratory. We have also included a summary on the parameters of interest for this workorder. In the event that you have an inquiry, please refer to the Work Order # (L+6 digits) when calling the Project Manager.

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

PRELIMINARY RESULTS

EBA ENG CONSULTANTS LTD
ATTN: STEVE MOORE
201-4916 49 STREET
YELLOWKNIFE NT X1A 2P7

Reported On: 01-SEP-06 05:31 PM

Lab Work Order #: L420382 **Date Received:** 10-AUG-06

Project P.O. #:
Job Reference: 1200163
Legal Site Desc:
CofC Numbers: 261004, 261005

Other Information:

Comments: L420382-3, -4, -5; Total metal analysis was changed from ultra low to low level becuase the samples contained too many suspended solids.

ROY JONES
General Manager

For any questions about this report please contact your Account Manager:

CATHERINE EVARISTO-CORDERO

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-1 STATION 1 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	<0.005		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Aluminum (Al)	0.0378		0.0003	mg/L		22-AUG-06	CLL	R433768
Arsenic (As)	0.00099		0.00003	mg/L		22-AUG-06	CLL	R433768
Boron (B)	0.007		0.001	mg/L		22-AUG-06	CLL	R433768
Barium (Ba)	0.0414		0.00005	mg/L		22-AUG-06	CLL	R433768
Beryllium (Be)	<0.0002		0.0002	mg/L		22-AUG-06	CLL	R433768
Calcium (Ca)	55.2		0.02	mg/L		22-AUG-06	CLL	R433768
Cadmium (Cd)	0.00123		0.00005	mg/L		22-AUG-06	CLL	R433768
Cobalt (Co)	0.0021		0.0001	mg/L		22-AUG-06	CLL	R433768
Chromium (Cr)	0.00014		0.00006	mg/L		22-AUG-06	CLL	R433768
Copper (Cu)	0.0017		0.0006	mg/L		22-AUG-06	CLL	R433768
Mercury (Hg)	<0.00002		0.00002	mg/L		22-AUG-06	CLL	R433768
Potassium (K)	0.87		0.02	mg/L		22-AUG-06	CLL	R433768
Magnesium (Mg)	4.51		0.004	mg/L		22-AUG-06	CLL	R433768
Manganese (Mn)	0.0460		0.0001	mg/L		22-AUG-06	CLL	R433768
Molybdenum (Mo)	0.00466		0.00006	mg/L		22-AUG-06	CLL	R433768
Sodium (Na)	1.60		0.005	mg/L		22-AUG-06	CLL	R433768
Nickel (Ni)	0.0270		0.00006	mg/L		22-AUG-06	CLL	R433768
Lead (Pb)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Antimony (Sb)	0.00040		0.00003	mg/L		22-AUG-06	CLL	R433768
Selenium (Se)	0.0035		0.0001	mg/L		22-AUG-06	CLL	R433768
Strontium (Sr)	0.173		0.0001	mg/L		22-AUG-06	CLL	R433768
Uranium (U)	0.00191		0.00005	mg/L		22-AUG-06	CLL	R433768
Vanadium (V)	0.00182		0.00005	mg/L		22-AUG-06	CLL	R433768
Zinc (Zn)	0.0851		0.0008	mg/L		22-AUG-06	CLL	R433768
Ultra-Low Metals								
Iron (Fe)	0.008		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Aluminum (Al)	0.351		0.0003	mg/L		22-AUG-06	CLL	R433768
Arsenic (As)	0.00143		0.00003	mg/L		22-AUG-06	CLL	R433768
Boron (B)	0.007		0.001	mg/L		22-AUG-06	CLL	R433768
Barium (Ba)	0.0421		0.00005	mg/L		22-AUG-06	CLL	R433768
Beryllium (Be)	<0.0002		0.0002	mg/L		22-AUG-06	CLL	R433768
Calcium (Ca)	59.4		0.02	mg/L		22-AUG-06	CLL	R433768
Cadmium (Cd)	0.00130		0.00005	mg/L		22-AUG-06	CLL	R433768
Cobalt (Co)	0.0022		0.0001	mg/L		22-AUG-06	CLL	R433768
Chromium (Cr)	0.00017		0.00006	mg/L		22-AUG-06	CLL	R433768
Copper (Cu)	0.0038		0.0006	mg/L		22-AUG-06	CLL	R433768
Mercury (Hg)	<0.00002		0.00002	mg/L		22-AUG-06	CLL	R433768
Potassium (K)	0.96		0.02	mg/L		22-AUG-06	CLL	R433768
Magnesium (Mg)	4.88		0.004	mg/L		22-AUG-06	CLL	R433768
Manganese (Mn)	0.0512		0.0001	mg/L		22-AUG-06	CLL	R433768
Molybdenum (Mo)	0.00474		0.00006	mg/L		22-AUG-06	CLL	R433768
Sodium (Na)	1.74		0.005	mg/L		22-AUG-06	CLL	R433768
Nickel (Ni)	0.0280		0.00006	mg/L		22-AUG-06	CLL	R433768
Lead (Pb)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Antimony (Sb)	0.00046		0.00003	mg/L		22-AUG-06	CLL	R433768
Selenium (Se)	0.0035		0.0001	mg/L		22-AUG-06	CLL	R433768

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-1 STATION 1 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Ultra-Low Metals								
Ultra-Low Metals								
Strontium (Sr)	0.178		0.0001	mg/L		22-AUG-06	CLL	R433768
Uranium (U)	0.00319		0.00005	mg/L		22-AUG-06	CLL	R433768
Vanadium (V)	0.00187		0.00005	mg/L		22-AUG-06	CLL	R433768
Zinc (Zn)	0.111		0.0008	mg/L		22-AUG-06	CLL	R433768
Ammonia-N	0.005		0.005	mg/L		18-AUG-06	LDC	R431988
Total Organic Carbon	<1		1	mg/L		11-AUG-06	ZOW	R429438
Routine Water Analysis								
Chloride (Cl)	<1		1	mg/L		11-AUG-06	WYA	R429576
ICP metals and SO4 for routine water								
Calcium (Ca)	56.7		0.5	mg/L		11-AUG-06	MLH	R429958
Potassium (K)	1.1		0.5	mg/L		11-AUG-06	MLH	R429958
Magnesium (Mg)	5.2		0.1	mg/L		11-AUG-06	MLH	R429958
Sodium (Na)	2		1	mg/L		11-AUG-06	MLH	R429958
Sulfate (SO4)	104		0.5	mg/L		11-AUG-06	MLH	R429958
Ion Balance Calculation								
Ion Balance	107			%		14-AUG-06		
TDS (Calculated)	199			mg/L		14-AUG-06		
Hardness (as CaCO3)	163			mg/L		14-AUG-06		
Nitrate+Nitrite-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrate-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrite-N	<0.05		0.05	mg/L		11-AUG-06	SHC	R429820
pH, Conductivity and Total Alkalinity								
pH	8.0		0.1	pH		10-AUG-06	PTT	R429312
Conductivity (EC)	314		0.2	uS/cm		10-AUG-06	PTT	R429312
Bicarbonate (HCO3)	61		5	mg/L		10-AUG-06	PTT	R429312
Carbonate (CO3)	<5		5	mg/L		10-AUG-06	PTT	R429312
Hydroxide (OH)	<5		5	mg/L		10-AUG-06	PTT	R429312
Alkalinity, Total (as CaCO3)	50		5	mg/L		10-AUG-06	PTT	R429312
L420382-2 STATION 2 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.210		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Aluminum (Al)	0.0161		0.0003	mg/L		22-AUG-06	CLL	R433768
Arsenic (As)	0.00014		0.00003	mg/L		22-AUG-06	CLL	R433768
Boron (B)	0.003		0.001	mg/L		22-AUG-06	CLL	R433768
Barium (Ba)	0.0479		0.00005	mg/L		22-AUG-06	CLL	R433768
Beryllium (Be)	<0.0002		0.0002	mg/L		22-AUG-06	CLL	R433768
Calcium (Ca)	34.9		0.02	mg/L		22-AUG-06	CLL	R433768
Cadmium (Cd)	0.00606		0.00005	mg/L		22-AUG-06	CLL	R433768
Cobalt (Co)	0.0108		0.0001	mg/L		22-AUG-06	CLL	R433768
Chromium (Cr)	0.00009		0.00006	mg/L		22-AUG-06	CLL	R433768
Copper (Cu)	0.0057		0.0006	mg/L		22-AUG-06	CLL	R433768
Mercury (Hg)	<0.00002		0.00002	mg/L		22-AUG-06	CLL	R433768
Potassium (K)	0.57		0.02	mg/L		22-AUG-06	CLL	R433768
Magnesium (Mg)	8.47		0.004	mg/L		22-AUG-06	CLL	R433768
Manganese (Mn)	0.139		0.0001	mg/L		22-AUG-06	CLL	R433768

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-2 STATION 2 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals - Dissolved								
Molybdenum (Mo)	0.00146		0.00006	mg/L		22-AUG-06	CLL	R433768
Sodium (Na)	0.787		0.005	mg/L		22-AUG-06	CLL	R433768
Nickel (Ni)	0.107		0.00006	mg/L		22-AUG-06	CLL	R433768
Lead (Pb)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Antimony (Sb)	0.00025		0.00003	mg/L		22-AUG-06	CLL	R433768
Selenium (Se)	0.0028		0.0001	mg/L		22-AUG-06	CLL	R433768
Strontium (Sr)	0.159		0.0001	mg/L		22-AUG-06	CLL	R433768
Uranium (U)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Vanadium (V)	0.00094		0.00005	mg/L		22-AUG-06	CLL	R433768
Zinc (Zn)	0.319		0.0008	mg/L		22-AUG-06	CLL	R433768
Ultra-Low Metals								
Iron (Fe)	1.37		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Aluminum (Al)	4.13		0.0003	mg/L		22-AUG-06	CLL	R433768
Arsenic (As)	0.00076		0.00003	mg/L		22-AUG-06	CLL	R433768
Boron (B)	0.003		0.001	mg/L		22-AUG-06	CLL	R433768
Barium (Ba)	0.0480		0.00005	mg/L		22-AUG-06	CLL	R433768
Beryllium (Be)	0.0003		0.0002	mg/L		22-AUG-06	CLL	R433768
Calcium (Ca)	36.9		0.02	mg/L		22-AUG-06	CLL	R433768
Cadmium (Cd)	0.00623		0.00005	mg/L		22-AUG-06	CLL	R433768
Cobalt (Co)	0.0113		0.0001	mg/L		22-AUG-06	CLL	R433768
Chromium (Cr)	0.00080		0.00006	mg/L		22-AUG-06	CLL	R433768
Copper (Cu)	0.0359		0.0006	mg/L		22-AUG-06	CLL	R433768
Mercury (Hg)	<0.00002		0.00002	mg/L		22-AUG-06	CLL	R433768
Potassium (K)	0.62		0.02	mg/L		22-AUG-06	CLL	R433768
Magnesium (Mg)	9.12		0.004	mg/L		22-AUG-06	CLL	R433768
Manganese (Mn)	0.145		0.0001	mg/L		22-AUG-06	CLL	R433768
Molybdenum (Mo)	0.00190		0.00006	mg/L		22-AUG-06	CLL	R433768
Sodium (Na)	0.827		0.005	mg/L		22-AUG-06	CLL	R433768
Nickel (Ni)	0.109		0.00006	mg/L		22-AUG-06	CLL	R433768
Lead (Pb)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Antimony (Sb)	0.00027		0.00003	mg/L		22-AUG-06	CLL	R433768
Selenium (Se)	0.0030		0.0001	mg/L		22-AUG-06	CLL	R433768
Strontium (Sr)	0.165		0.0001	mg/L		22-AUG-06	CLL	R433768
Uranium (U)	0.00219		0.00005	mg/L		22-AUG-06	CLL	R433768
Vanadium (V)	0.00206		0.00005	mg/L		22-AUG-06	CLL	R433768
Zinc (Zn)	0.376		0.0008	mg/L		22-AUG-06	CLL	R433768
Ammonia-N	0.016		0.005	mg/L		18-AUG-06	LDC	R431988
Total Organic Carbon	<1		1	mg/L		11-AUG-06	ZOW	R429438
Routine Water Analysis								
Chloride (Cl)	1		1	mg/L		11-AUG-06	WYA	R429576
ICP metals and SO4 for routine water								
Calcium (Ca)	39.4		0.5	mg/L		11-AUG-06	MLH	R429958
Potassium (K)	0.9		0.5	mg/L		11-AUG-06	MLH	R429958
Magnesium (Mg)	10.0		0.1	mg/L		11-AUG-06	MLH	R429958
Sodium (Na)	1		1	mg/L		11-AUG-06	MLH	R429958
Sulfate (SO4)	118		0.5	mg/L		11-AUG-06	MLH	R429958
Ion Balance Calculation								

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-2 STATION 2 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Routine Water Analysis								
Ion Balance Calculation								
Ion Balance	105			%		14-AUG-06		
TDS (Calculated)	178			mg/L		14-AUG-06		
Hardness (as CaCO3)	140			mg/L		14-AUG-06		
Nitrate+Nitrite-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrate-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrite-N	<0.05		0.05	mg/L		11-AUG-06	SHC	R429820
pH, Conductivity and Total Alkalinity								
pH	7.3		0.1	pH		10-AUG-06	PTT	R429312
Conductivity (EC)	275		0.2	uS/cm		10-AUG-06	PTT	R429312
Bicarbonate (HCO3)	14		5	mg/L		10-AUG-06	PTT	R429312
Carbonate (CO3)	<5		5	mg/L		10-AUG-06	PTT	R429312
Hydroxide (OH)	<5		5	mg/L		10-AUG-06	PTT	R429312
Alkalinity, Total (as CaCO3)	12		5	mg/L		10-AUG-06	PTT	R429312
L420382-3 STATION 3 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Total Metals								
Total Major Metals								
Calcium (Ca)	7.2		0.5	mg/L		19-AUG-06	DDN	R432283
Potassium (K)	0.6		0.1	mg/L		19-AUG-06	DDN	R432283
Magnesium (Mg)	3.2		0.1	mg/L		19-AUG-06	DDN	R432283
Sodium (Na)	<1		1	mg/L		19-AUG-06	DDN	R432283
Iron (Fe)	0.804		0.005	mg/L		19-AUG-06	DDN	R432283
Manganese (Mn)	0.032		0.001	mg/L		19-AUG-06	DDN	R432283
Total Trace Metals (Low Level)								
Silver (Ag)	<0.0004		0.0004	mg/L		18-AUG-06	MCHU	R432136
Aluminum (Al)	1.00		0.02	mg/L		18-AUG-06	MCHU	R432136
Arsenic (As)	0.0007		0.0004	mg/L		18-AUG-06	MCHU	R432136
Boron (B)	<0.02		0.02	mg/L		18-AUG-06	MCHU	R432136
Barium (Ba)	0.0240		0.0002	mg/L		18-AUG-06	MCHU	R432136
Beryllium (Be)	<0.001		0.001	mg/L		18-AUG-06	MCHU	R432136
Bismuth (Bi)	<0.0001		0.0001	mg/L		18-AUG-06	MCHU	R432136
Cadmium (Cd)	<0.0002		0.0002	mg/L		18-AUG-06	MCHU	R432136
Cobalt (Co)	0.0011		0.0002	mg/L		18-AUG-06	MCHU	R432136
Chromium (Cr)	0.0011		0.0008	mg/L		18-AUG-06	MCHU	R432136
Copper (Cu)	0.002		0.001	mg/L		18-AUG-06	MCHU	R432136
Molybdenum (Mo)	0.0003		0.0001	mg/L		18-AUG-06	MCHU	R432136
Nickel (Ni)	0.0038		0.0002	mg/L		18-AUG-06	MCHU	R432136
Lead (Pb)	0.0004		0.0001	mg/L		18-AUG-06	MCHU	R432136
Antimony (Sb)	<0.0004		0.0004	mg/L		18-AUG-06	MCHU	R432136
Selenium (Se)	0.0007		0.0004	mg/L		18-AUG-06	MCHU	R432136
Tin (Sn)	<0.0004		0.0004	mg/L		18-AUG-06	MCHU	R432136
Strontium (Sr)	0.0310		0.0002	mg/L		18-AUG-06	MCHU	R432136
Titanium (Ti)	0.079		0.005	mg/L		18-AUG-06	MCHU	R432136
Thallium (Tl)	<0.0001		0.0001	mg/L		18-AUG-06	MCHU	R432136
Uranium (U)	0.0003		0.0001	mg/L		18-AUG-06	MCHU	R432136
Vanadium (V)	0.0022		0.0002	mg/L		18-AUG-06	MCHU	R432136
Zinc (Zn)	0.007		0.004	mg/L		18-AUG-06	MCHU	R432136
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.022		0.005	mg/L		24-AUG-06	HAS	R434245

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-3 STATION 3 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Aluminum (Al)	0.0373		0.0003	mg/L		22-AUG-06	CLL	R433768
Arsenic (As)	0.00024		0.00003	mg/L		22-AUG-06	CLL	R433768
Boron (B)	0.002		0.001	mg/L		22-AUG-06	CLL	R433768
Barium (Ba)	0.0116		0.00005	mg/L		22-AUG-06	CLL	R433768
Beryllium (Be)	<0.0002		0.0002	mg/L		22-AUG-06	CLL	R433768
Calcium (Ca)	8.46		0.02	mg/L		22-AUG-06	CLL	R433768
Cadmium (Cd)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Cobalt (Co)	0.0007		0.0001	mg/L		22-AUG-06	CLL	R433768
Chromium (Cr)	0.00038		0.00006	mg/L		22-AUG-06	CLL	R433768
Copper (Cu)	0.0006		0.0006	mg/L		22-AUG-06	CLL	R433768
Mercury (Hg)	<0.00002		0.00002	mg/L		22-AUG-06	CLL	R433768
Potassium (K)	0.37		0.02	mg/L		22-AUG-06	CLL	R433768
Magnesium (Mg)	3.71		0.004	mg/L		22-AUG-06	CLL	R433768
Manganese (Mn)	0.0234		0.0001	mg/L		22-AUG-06	CLL	R433768
Molybdenum (Mo)	0.00030		0.00006	mg/L		22-AUG-06	CLL	R433768
Sodium (Na)	0.429		0.005	mg/L		22-AUG-06	CLL	R433768
Nickel (Ni)	0.00331		0.00006	mg/L		22-AUG-06	CLL	R433768
Lead (Pb)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Antimony (Sb)	0.00017		0.00003	mg/L		22-AUG-06	CLL	R433768
Selenium (Se)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Strontium (Sr)	0.0272		0.0001	mg/L		22-AUG-06	CLL	R433768
Uranium (U)	0.00020		0.00005	mg/L		22-AUG-06	CLL	R433768
Vanadium (V)	0.00084		0.00005	mg/L		22-AUG-06	CLL	R433768
Zinc (Zn)	0.0059		0.0008	mg/L		22-AUG-06	CLL	R433768
Ammonia-N	0.006		0.005	mg/L		18-AUG-06	LDC	R431988
Total Organic Carbon	1		1	mg/L		11-AUG-06	ZOW	R429438
Routine Water Analysis								
Chloride (Cl)	<1		1	mg/L		11-AUG-06	WYA	R429576
ICP metals and SO4 for routine water								
Calcium (Ca)	9.3		0.5	mg/L		11-AUG-06	MLH	R429958
Potassium (K)	0.5		0.5	mg/L		11-AUG-06	MLH	R429958
Magnesium (Mg)	4.2		0.1	mg/L		11-AUG-06	MLH	R429958
Sodium (Na)	<1		1	mg/L		11-AUG-06	MLH	R429958
Sulfate (SO4)	24.6		0.5	mg/L		11-AUG-06	MLH	R429958
Ion Balance Calculation								
Ion Balance	Low EC			%		14-AUG-06		
TDS (Calculated)	46			mg/L		14-AUG-06		
Hardness (as CaCO3)	41			mg/L		14-AUG-06		
Nitrate+Nitrite-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrate-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrite-N	<0.05		0.05	mg/L		11-AUG-06	SHC	R429820
pH, Conductivity and Total Alkalinity								
pH	7.5		0.1	pH		10-AUG-06	PTT	R429312
Conductivity (EC)	84.6		0.2	uS/cm		10-AUG-06	PTT	R429312
Bicarbonate (HCO3)	16		5	mg/L		10-AUG-06	PTT	R429312
Carbonate (CO3)	<5		5	mg/L		10-AUG-06	PTT	R429312
Hydroxide (OH)	<5		5	mg/L		10-AUG-06	PTT	R429312
Alkalinity, Total (as CaCO3)	13		5	mg/L		10-AUG-06	PTT	R429312

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-4 STATION 3 DUP MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Total Metals								
Total Major Metals								
Calcium (Ca)	7.4		0.5	mg/L		19-AUG-06	DDN	R432283
Potassium (K)	0.7		0.1	mg/L		19-AUG-06	DDN	R432283
Magnesium (Mg)	3.3		0.1	mg/L		19-AUG-06	DDN	R432283
Sodium (Na)	<1		1	mg/L		19-AUG-06	DDN	R432283
Iron (Fe)	0.863		0.005	mg/L		19-AUG-06	DDN	R432283
Manganese (Mn)	0.034		0.001	mg/L		19-AUG-06	DDN	R432283
Total Trace Metals (Low Level)								
Silver (Ag)	<0.0004		0.0004	mg/L		18-AUG-06	MCHU	R432136
Aluminum (Al)	1.09		0.02	mg/L		18-AUG-06	MCHU	R432136
Arsenic (As)	0.0008		0.0004	mg/L		18-AUG-06	MCHU	R432136
Boron (B)	<0.02		0.02	mg/L		18-AUG-06	MCHU	R432136
Barium (Ba)	0.0246		0.0002	mg/L		18-AUG-06	MCHU	R432136
Beryllium (Be)	<0.001		0.001	mg/L		18-AUG-06	MCHU	R432136
Bismuth (Bi)	<0.0001		0.0001	mg/L		18-AUG-06	MCHU	R432136
Cadmium (Cd)	<0.0002		0.0002	mg/L		18-AUG-06	MCHU	R432136
Cobalt (Co)	0.0012		0.0002	mg/L		18-AUG-06	MCHU	R432136
Chromium (Cr)	0.0013		0.0008	mg/L		18-AUG-06	MCHU	R432136
Copper (Cu)	0.001		0.001	mg/L		18-AUG-06	MCHU	R432136
Molybdenum (Mo)	0.0003		0.0001	mg/L		18-AUG-06	MCHU	R432136
Nickel (Ni)	0.0039		0.0002	mg/L		18-AUG-06	MCHU	R432136
Lead (Pb)	0.0005		0.0001	mg/L		18-AUG-06	MCHU	R432136
Antimony (Sb)	<0.0004		0.0004	mg/L		18-AUG-06	MCHU	R432136
Selenium (Se)	0.0006		0.0004	mg/L		18-AUG-06	MCHU	R432136
Tin (Sn)	<0.0004		0.0004	mg/L		18-AUG-06	MCHU	R432136
Strontium (Sr)	0.0305		0.0002	mg/L		18-AUG-06	MCHU	R432136
Titanium (Ti)	0.085		0.005	mg/L		18-AUG-06	MCHU	R432136
Thallium (Tl)	<0.0001		0.0001	mg/L		18-AUG-06	MCHU	R432136
Uranium (U)	0.0004		0.0001	mg/L		18-AUG-06	MCHU	R432136
Vanadium (V)	0.0024		0.0002	mg/L		18-AUG-06	MCHU	R432136
Zinc (Zn)	0.007		0.004	mg/L		18-AUG-06	MCHU	R432136
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.022		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Aluminum (Al)	0.0370		0.0003	mg/L		22-AUG-06	CLL	R433768
Arsenic (As)	0.00027		0.00003	mg/L		22-AUG-06	CLL	R433768
Boron (B)	0.002		0.001	mg/L		22-AUG-06	CLL	R433768
Barium (Ba)	0.0115		0.00005	mg/L		22-AUG-06	CLL	R433768
Beryllium (Be)	<0.0002		0.0002	mg/L		22-AUG-06	CLL	R433768
Calcium (Ca)	8.51		0.02	mg/L		22-AUG-06	CLL	R433768
Cadmium (Cd)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Cobalt (Co)	0.0007		0.0001	mg/L		22-AUG-06	CLL	R433768
Chromium (Cr)	<0.00006		0.00006	mg/L		22-AUG-06	CLL	R433768
Copper (Cu)	0.0007		0.0006	mg/L		22-AUG-06	CLL	R433768
Mercury (Hg)	<0.00002		0.00002	mg/L		22-AUG-06	CLL	R433768
Potassium (K)	0.37		0.02	mg/L		22-AUG-06	CLL	R433768
Magnesium (Mg)	3.72		0.004	mg/L		22-AUG-06	CLL	R433768
Manganese (Mn)	0.0230		0.0001	mg/L		22-AUG-06	CLL	R433768
Molybdenum (Mo)	0.00029		0.00006	mg/L		22-AUG-06	CLL	R433768
Sodium (Na)	0.426		0.005	mg/L		22-AUG-06	CLL	R433768
Nickel (Ni)	0.00320		0.00006	mg/L		22-AUG-06	CLL	R433768

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-4 STATION 3 DUP MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals - Dissolved								
Lead (Pb)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Antimony (Sb)	0.00015		0.00003	mg/L		22-AUG-06	CLL	R433768
Selenium (Se)	0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Strontium (Sr)	0.0272		0.0001	mg/L		22-AUG-06	CLL	R433768
Uranium (U)	0.00019		0.00005	mg/L		22-AUG-06	CLL	R433768
Vanadium (V)	0.00082		0.00005	mg/L		22-AUG-06	CLL	R433768
Zinc (Zn)	0.0056		0.0008	mg/L		22-AUG-06	CLL	R433768
Ammonia-N	0.006		0.005	mg/L		18-AUG-06	LDC	R431988
Total Organic Carbon	1		1	mg/L		11-AUG-06	ZOW	R429438
Routine Water Analysis								
Chloride (Cl)	<1		1	mg/L		11-AUG-06	WYA	R429576
ICP metals and SO4 for routine water								
Calcium (Ca)	9.3		0.5	mg/L		11-AUG-06	MLH	R429958
Potassium (K)	<0.5		0.5	mg/L		11-AUG-06	MLH	R429958
Magnesium (Mg)	4.0		0.1	mg/L		11-AUG-06	MLH	R429958
Sodium (Na)	<1		1	mg/L		11-AUG-06	MLH	R429958
Sulfate (SO4)	24.4		0.5	mg/L		11-AUG-06	MLH	R429958
Ion Balance Calculation								
Ion Balance	Low EC			%		14-AUG-06		
TDS (Calculated)	46			mg/L		14-AUG-06		
Hardness (as CaCO3)	40			mg/L		14-AUG-06		
Nitrate+Nitrite-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrate-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrite-N	<0.05		0.05	mg/L		11-AUG-06	SHC	R429820
pH, Conductivity and Total Alkalinity								
pH	7.5		0.1	pH		10-AUG-06	PTT	R429312
Conductivity (EC)	84.6		0.2	uS/cm		10-AUG-06	PTT	R429312
Bicarbonate (HCO3)	16		5	mg/L		10-AUG-06	PTT	R429312
Carbonate (CO3)	<5		5	mg/L		10-AUG-06	PTT	R429312
Hydroxide (OH)	<5		5	mg/L		10-AUG-06	PTT	R429312
Alkalinity, Total (as CaCO3)	13		5	mg/L		10-AUG-06	PTT	R429312
L420382-5 STATION 4 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Total Metals								
Total Major Metals								
Calcium (Ca)	12.5		0.5	mg/L		19-AUG-06	DDN	R432283
Potassium (K)	0.6		0.1	mg/L		19-AUG-06	DDN	R432283
Magnesium (Mg)	4.3		0.1	mg/L		19-AUG-06	DDN	R432283
Sodium (Na)	<1		1	mg/L		19-AUG-06	DDN	R432283
Iron (Fe)	0.788		0.005	mg/L		19-AUG-06	DDN	R432283
Manganese (Mn)	0.045		0.001	mg/L		19-AUG-06	DDN	R432283
Total Trace Metals (Low Level)								
Silver (Ag)	<0.0004		0.0004	mg/L		18-AUG-06	MCHU	R432136
Aluminum (Al)	1.46		0.02	mg/L		18-AUG-06	MCHU	R432136
Arsenic (As)	0.0007		0.0004	mg/L		18-AUG-06	MCHU	R432136
Boron (B)	<0.02		0.02	mg/L		18-AUG-06	MCHU	R432136
Barium (Ba)	0.0301		0.0002	mg/L		18-AUG-06	MCHU	R432136
Beryllium (Be)	<0.001		0.001	mg/L		18-AUG-06	MCHU	R432136

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-5 STATION 4 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Total Metals								
Total Trace Metals (Low Level)								
Bismuth (Bi)	<0.0001		0.0001	mg/L		18-AUG-06	MCHU	R432136
Cadmium (Cd)	0.0012		0.0002	mg/L		18-AUG-06	MCHU	R432136
Cobalt (Co)	0.0030		0.0002	mg/L		18-AUG-06	MCHU	R432136
Chromium (Cr)	0.0008		0.0008	mg/L		18-AUG-06	MCHU	R432136
Copper (Cu)	0.008		0.001	mg/L		18-AUG-06	MCHU	R432136
Molybdenum (Mo)	0.0006		0.0001	mg/L		18-AUG-06	MCHU	R432136
Nickel (Ni)	0.0245		0.0002	mg/L		18-AUG-06	MCHU	R432136
Lead (Pb)	0.0003		0.0001	mg/L		18-AUG-06	MCHU	R432136
Antimony (Sb)	<0.0004		0.0004	mg/L		18-AUG-06	MCHU	R432136
Selenium (Se)	0.0010		0.0004	mg/L		18-AUG-06	MCHU	R432136
Tin (Sn)	<0.0004		0.0004	mg/L		18-AUG-06	MCHU	R432136
Strontium (Sr)	0.0610		0.0002	mg/L		18-AUG-06	MCHU	R432136
Titanium (Ti)	0.064		0.005	mg/L		18-AUG-06	MCHU	R432136
Thallium (Tl)	<0.0001		0.0001	mg/L		18-AUG-06	MCHU	R432136
Uranium (U)	0.0006		0.0001	mg/L		18-AUG-06	MCHU	R432136
Vanadium (V)	0.0019		0.0002	mg/L		18-AUG-06	MCHU	R432136
Zinc (Zn)	0.063		0.004	mg/L		18-AUG-06	MCHU	R432136
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.030		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Aluminum (Al)	0.0392		0.0003	mg/L		22-AUG-06	CLL	R433768
Arsenic (As)	0.00021		0.00003	mg/L		22-AUG-06	CLL	R433768
Boron (B)	0.003		0.001	mg/L		22-AUG-06	CLL	R433768
Barium (Ba)	0.0205		0.00005	mg/L		22-AUG-06	CLL	R433768
Beryllium (Be)	<0.0002		0.0002	mg/L		22-AUG-06	CLL	R433768
Calcium (Ca)	15.5		0.02	mg/L		22-AUG-06	CLL	R433768
Cadmium (Cd)	0.00118		0.00005	mg/L		22-AUG-06	CLL	R433768
Cobalt (Co)	0.0026		0.0001	mg/L		22-AUG-06	CLL	R433768
Chromium (Cr)	0.00073		0.00006	mg/L		22-AUG-06	CLL	R433768
Copper (Cu)	0.0018		0.0006	mg/L		22-AUG-06	CLL	R433768
Mercury (Hg)	<0.00002		0.00002	mg/L		22-AUG-06	CLL	R433768
Potassium (K)	0.43		0.02	mg/L		22-AUG-06	CLL	R433768
Magnesium (Mg)	5.21		0.004	mg/L		22-AUG-06	CLL	R433768
Manganese (Mn)	0.0440		0.0001	mg/L		22-AUG-06	CLL	R433768
Molybdenum (Mo)	0.00056		0.00006	mg/L		22-AUG-06	CLL	R433768
Sodium (Na)	0.539		0.005	mg/L		22-AUG-06	CLL	R433768
Nickel (Ni)	0.0230		0.00006	mg/L		22-AUG-06	CLL	R433768
Lead (Pb)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Antimony (Sb)	0.00029		0.00003	mg/L		22-AUG-06	CLL	R433768
Selenium (Se)	0.0008		0.0001	mg/L		22-AUG-06	CLL	R433768
Strontium (Sr)	0.0551		0.0001	mg/L		22-AUG-06	CLL	R433768
Uranium (U)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Vanadium (V)	0.00075		0.00005	mg/L		22-AUG-06	CLL	R433768
Zinc (Zn)	0.0647		0.0008	mg/L		22-AUG-06	CLL	R433768
Ammonia-N	0.007		0.005	mg/L		18-AUG-06	LDC	R431988
Total Organic Carbon	1		1	mg/L		11-AUG-06	ZOW	R429438
Routine Water Analysis								
Chloride (Cl)	<1		1	mg/L		11-AUG-06	WYA	R429576

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-5 STATION 4 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Routine Water Analysis								
ICP metals and SO4 for routine water								
Calcium (Ca)	16.4		0.5	mg/L		11-AUG-06	MLH	R429958
Potassium (K)	0.7		0.5	mg/L		11-AUG-06	MLH	R429958
Magnesium (Mg)	5.8		0.1	mg/L		11-AUG-06	MLH	R429958
Sodium (Na)	<1		1	mg/L		11-AUG-06	MLH	R429958
Sulfate (SO4)	45.4		0.5	mg/L		11-AUG-06	MLH	R429958
Ion Balance Calculation								
Ion Balance	106			%		14-AUG-06		
TDS (Calculated)	77			mg/L		14-AUG-06		
Hardness (as CaCO3)	65			mg/L		14-AUG-06		
Nitrate+Nitrite-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrate-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrite-N	<0.05		0.05	mg/L		11-AUG-06	SHC	R429820
pH, Conductivity and Total Alkalinity								
pH	7.5		0.1	pH		11-AUG-06	PTT	R429312
Conductivity (EC)	134		0.2	uS/cm		11-AUG-06	PTT	R429312
Bicarbonate (HCO3)	18		5	mg/L		11-AUG-06	PTT	R429312
Carbonate (CO3)	<5		5	mg/L		11-AUG-06	PTT	R429312
Hydroxide (OH)	<5		5	mg/L		11-AUG-06	PTT	R429312
Alkalinity, Total (as CaCO3)	15		5	mg/L		11-AUG-06	PTT	R429312
L420382-6 STATION 5 MACTUNG								
Sampled By: SM/KL on 05-AUG-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.036		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Aluminum (Al)	0.0202		0.0003	mg/L		22-AUG-06	CLL	R433768
Arsenic (As)	0.00101		0.00003	mg/L		22-AUG-06	CLL	R433768
Boron (B)	<0.001		0.001	mg/L		22-AUG-06	CLL	R433768
Barium (Ba)	0.0427		0.00005	mg/L		22-AUG-06	CLL	R433768
Beryllium (Be)	<0.0002		0.0002	mg/L		22-AUG-06	CLL	R433768
Calcium (Ca)	25.1		0.02	mg/L		22-AUG-06	CLL	R433768
Cadmium (Cd)	0.00038		0.00005	mg/L		22-AUG-06	CLL	R433768
Cobalt (Co)	0.0005		0.0001	mg/L		22-AUG-06	CLL	R433768
Chromium (Cr)	0.00042		0.00006	mg/L		22-AUG-06	CLL	R433768
Copper (Cu)	0.0007		0.0006	mg/L		22-AUG-06	CLL	R433768
Mercury (Hg)	<0.00002		0.00002	mg/L		22-AUG-06	CLL	R433768
Potassium (K)	0.58		0.02	mg/L		22-AUG-06	CLL	R433768
Magnesium (Mg)	3.65		0.004	mg/L		22-AUG-06	CLL	R433768
Manganese (Mn)	0.0136		0.0001	mg/L		22-AUG-06	CLL	R433768
Molybdenum (Mo)	0.00191		0.00006	mg/L		22-AUG-06	CLL	R433768
Sodium (Na)	0.423		0.005	mg/L		22-AUG-06	CLL	R433768
Nickel (Ni)	0.00796		0.00006	mg/L		22-AUG-06	CLL	R433768
Lead (Pb)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Antimony (Sb)	0.00044		0.00003	mg/L		22-AUG-06	CLL	R433768
Selenium (Se)	0.0014		0.0001	mg/L		22-AUG-06	CLL	R433768
Strontium (Sr)	0.0922		0.0001	mg/L		22-AUG-06	CLL	R433768
Uranium (U)	0.00129		0.00005	mg/L		22-AUG-06	CLL	R433768
Vanadium (V)	0.00070		0.00005	mg/L		22-AUG-06	CLL	R433768
Zinc (Zn)	0.0219		0.0008	mg/L		22-AUG-06	CLL	R433768

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-6 STATION 5 MACTUNG								
Sampled By: SM/KL on 05-AUG-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals								
Iron (Fe)	0.100		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Aluminum (Al)	0.0544		0.0003	mg/L		22-AUG-06	CLL	R433768
Arsenic (As)	0.00172		0.00003	mg/L		22-AUG-06	CLL	R433768
Boron (B)	0.001		0.001	mg/L		22-AUG-06	CLL	R433768
Barium (Ba)	0.0428		0.00005	mg/L		22-AUG-06	CLL	R433768
Beryllium (Be)	<0.0002		0.0002	mg/L		22-AUG-06	CLL	R433768
Calcium (Ca)	25.2		0.02	mg/L		22-AUG-06	CLL	R433768
Cadmium (Cd)	0.00051		0.00005	mg/L		22-AUG-06	CLL	R433768
Cobalt (Co)	0.0006		0.0001	mg/L		22-AUG-06	CLL	R433768
Chromium (Cr)	0.00235		0.00006	mg/L		22-AUG-06	CLL	R433768
Copper (Cu)	0.0012		0.0006	mg/L		22-AUG-06	CLL	R433768
Mercury (Hg)	<0.00002		0.00002	mg/L		22-AUG-06	CLL	R433768
Potassium (K)	0.61		0.02	mg/L		22-AUG-06	CLL	R433768
Magnesium (Mg)	3.79		0.004	mg/L		22-AUG-06	CLL	R433768
Manganese (Mn)	0.0146		0.0001	mg/L		22-AUG-06	CLL	R433768
Molybdenum (Mo)	0.00194		0.00006	mg/L		22-AUG-06	CLL	R433768
Sodium (Na)	0.424		0.005	mg/L		22-AUG-06	CLL	R433768
Nickel (Ni)	0.00814		0.00006	mg/L		22-AUG-06	CLL	R433768
Lead (Pb)	0.00065		0.00005	mg/L		22-AUG-06	CLL	R433768
Antimony (Sb)	0.00039		0.00003	mg/L		22-AUG-06	CLL	R433768
Selenium (Se)	0.0013		0.0001	mg/L		22-AUG-06	CLL	R433768
Strontium (Sr)	0.0940		0.0001	mg/L		22-AUG-06	CLL	R433768
Uranium (U)	0.00140		0.00005	mg/L		22-AUG-06	CLL	R433768
Vanadium (V)	0.00101		0.00005	mg/L		22-AUG-06	CLL	R433768
Zinc (Zn)	0.0224		0.0008	mg/L		22-AUG-06	CLL	R433768
Ammonia-N	0.007		0.005	mg/L		18-AUG-06	LDC	R431988
Total Organic Carbon	1		1	mg/L		11-AUG-06	ZOW	R429438
Routine Water Analysis								
Chloride (Cl)	<1		1	mg/L		11-AUG-06	WYA	R429576
ICP metals and SO4 for routine water								
Calcium (Ca)	27.1		0.5	mg/L		11-AUG-06	MLH	R429958
Potassium (K)	0.7		0.5	mg/L		11-AUG-06	MLH	R429958
Magnesium (Mg)	4.0		0.1	mg/L		11-AUG-06	MLH	R429958
Sodium (Na)	<1		1	mg/L		11-AUG-06	MLH	R429958
Sulfate (SO4)	44.9		0.5	mg/L		11-AUG-06	MLH	R429958
Ion Balance Calculation								
Ion Balance	102			%		14-AUG-06		
TDS (Calculated)	99			mg/L		14-AUG-06		
Hardness (as CaCO3)	84			mg/L		14-AUG-06		
Nitrate+Nitrite-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrate-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrite-N	<0.05		0.05	mg/L		11-AUG-06	SHC	R429820
pH, Conductivity and Total Alkalinity								
pH	7.9		0.1	pH		11-AUG-06	PTT	R429312
Conductivity (EC)	169		0.2	uS/cm		11-AUG-06	PTT	R429312
Bicarbonate (HCO3)	45		5	mg/L		11-AUG-06	PTT	R429312
Carbonate (CO3)	<5		5	mg/L		11-AUG-06	PTT	R429312

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-6 STATION 5 MACTUNG								
Sampled By: SM/KL on 05-AUG-06								
Matrix: WATER								
Routine Water Analysis								
pH, Conductivity and Total Alkalinity								
Hydroxide (OH)	<5		5	mg/L		11-AUG-06	PTT	R429312
Alkalinity, Total (as CaCO3)	37		5	mg/L		11-AUG-06	PTT	R429312
L420382-7 STATION 6 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.012		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		25-AUG-06	CLL	R434986
Aluminum (Al)	0.0285		0.0003	mg/L		25-AUG-06	CLL	R434986
Arsenic (As)	0.00106		0.00003	mg/L		25-AUG-06	CLL	R434986
Boron (B)	<0.001		0.001	mg/L		25-AUG-06	CLL	R434986
Barium (Ba)	0.0425		0.00005	mg/L		25-AUG-06	CLL	R434986
Beryllium (Be)	<0.0002		0.0002	mg/L		25-AUG-06	CLL	R434986
Calcium (Ca)	22.1		0.02	mg/L		25-AUG-06	CLL	R434986
Cadmium (Cd)	0.00024		0.00005	mg/L		25-AUG-06	CLL	R434986
Cobalt (Co)	0.0017		0.0001	mg/L		25-AUG-06	CLL	R434986
Chromium (Cr)	0.00024		0.00006	mg/L		25-AUG-06	CLL	R434986
Copper (Cu)	0.0008		0.0006	mg/L		25-AUG-06	CLL	R434986
Mercury (Hg)	<0.00002		0.00002	mg/L		25-AUG-06	CLL	R434986
Potassium (K)	0.57		0.02	mg/L		25-AUG-06	CLL	R434986
Magnesium (Mg)	2.90		0.004	mg/L		25-AUG-06	CLL	R434986
Manganese (Mn)	0.0253		0.0001	mg/L		25-AUG-06	CLL	R434986
Molybdenum (Mo)	0.00143		0.00006	mg/L		25-AUG-06	CLL	R434986
Sodium (Na)	0.369		0.005	mg/L		25-AUG-06	CLL	R434986
Nickel (Ni)	0.00699		0.00006	mg/L		25-AUG-06	CLL	R434986
Lead (Pb)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Antimony (Sb)	0.00033		0.00003	mg/L		25-AUG-06	CLL	R434986
Selenium (Se)	0.0010		0.0001	mg/L		25-AUG-06	CLL	R434986
Strontium (Sr)	0.0641		0.0001	mg/L		25-AUG-06	CLL	R434986
Uranium (U)	0.00074		0.00005	mg/L		25-AUG-06	CLL	R434986
Vanadium (V)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Zinc (Zn)	0.0156		0.0008	mg/L		25-AUG-06	CLL	R434986
Ultra-Low Metals								
Iron (Fe)	0.074		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		25-AUG-06	CLL	R434986
Aluminum (Al)	0.0810		0.0003	mg/L		25-AUG-06	CLL	R434986
Arsenic (As)	0.00137		0.00003	mg/L		25-AUG-06	CLL	R434986
Boron (B)	<0.001		0.001	mg/L		25-AUG-06	CLL	R434986
Barium (Ba)	0.0450		0.00005	mg/L		25-AUG-06	CLL	R434986
Beryllium (Be)	<0.0002		0.0002	mg/L		25-AUG-06	CLL	R434986
Calcium (Ca)	22.0		0.02	mg/L		25-AUG-06	CLL	R434986
Cadmium (Cd)	0.00029		0.00005	mg/L		25-AUG-06	CLL	R434986
Cobalt (Co)	0.0018		0.0001	mg/L		25-AUG-06	CLL	R434986
Chromium (Cr)	0.00025		0.00006	mg/L		25-AUG-06	CLL	R434986
Copper (Cu)	0.0011		0.0006	mg/L		25-AUG-06	CLL	R434986
Mercury (Hg)	<0.00002		0.00002	mg/L		25-AUG-06	CLL	R434986
Potassium (K)	0.59		0.02	mg/L		25-AUG-06	CLL	R434986
Magnesium (Mg)	2.94		0.004	mg/L		25-AUG-06	CLL	R434986

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-7 STATION 6 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Ultra-Low Metals								
Ultra-Low Metals								
Manganese (Mn)	0.0271		0.0001	mg/L		25-AUG-06	CLL	R434986
Molybdenum (Mo)	0.00144		0.00006	mg/L		25-AUG-06	CLL	R434986
Sodium (Na)	0.359		0.005	mg/L		25-AUG-06	CLL	R434986
Nickel (Ni)	0.00732		0.00006	mg/L		25-AUG-06	CLL	R434986
Lead (Pb)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Antimony (Sb)	0.00036		0.00003	mg/L		25-AUG-06	CLL	R434986
Selenium (Se)	0.0010		0.0001	mg/L		25-AUG-06	CLL	R434986
Strontium (Sr)	0.0653		0.0001	mg/L		25-AUG-06	CLL	R434986
Uranium (U)	0.00083		0.00005	mg/L		25-AUG-06	CLL	R434986
Vanadium (V)	0.00018		0.00005	mg/L		25-AUG-06	CLL	R434986
Zinc (Zn)	0.0154		0.0008	mg/L		25-AUG-06	CLL	R434986
Ammonia-N	0.007		0.005	mg/L		18-AUG-06	LDC	R431988
Total Organic Carbon	1		1	mg/L		11-AUG-06	ZOW	R429438
Routine Water Analysis								
Chloride (Cl)	<1		1	mg/L		11-AUG-06	WYA	R429576
ICP metals and SO4 for routine water								
Calcium (Ca)	26.1		0.5	mg/L		11-AUG-06	MLH	R429958
Potassium (K)	0.8		0.5	mg/L		11-AUG-06	MLH	R429958
Magnesium (Mg)	3.8		0.1	mg/L		11-AUG-06	MLH	R429958
Sodium (Na)	<1		1	mg/L		11-AUG-06	MLH	R429958
Sulfate (SO4)	39.1		0.5	mg/L		11-AUG-06	MLH	R429958
Ion Balance Calculation								
Ion Balance	103			%		14-AUG-06		
TDS (Calculated)	93			mg/L		14-AUG-06		
Hardness (as CaCO3)	81			mg/L		14-AUG-06		
Nitrate+Nitrite-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrate-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrite-N	<0.05		0.05	mg/L		11-AUG-06	SHC	R429820
pH, Conductivity and Total Alkalinity								
pH	7.9		0.1	pH		11-AUG-06	PTT	R429312
Conductivity (EC)	160		0.2	uS/cm		11-AUG-06	PTT	R429312
Bicarbonate (HCO3)	47		5	mg/L		11-AUG-06	PTT	R429312
Carbonate (CO3)	<5		5	mg/L		11-AUG-06	PTT	R429312
Hydroxide (OH)	<5		5	mg/L		11-AUG-06	PTT	R429312
Alkalinity, Total (as CaCO3)	39		5	mg/L		11-AUG-06	PTT	R429312
L420382-8 STATION 7 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.175		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		25-AUG-06	CLL	R434986
Aluminum (Al)	0.0192		0.0003	mg/L		25-AUG-06	CLL	R434986
Arsenic (As)	0.00019		0.00003	mg/L		25-AUG-06	CLL	R434986
Boron (B)	<0.001		0.001	mg/L		25-AUG-06	CLL	R434986
Barium (Ba)	0.0397		0.00005	mg/L		25-AUG-06	CLL	R434986
Beryllium (Be)	<0.0002		0.0002	mg/L		25-AUG-06	CLL	R434986
Calcium (Ca)	16.8		0.02	mg/L		25-AUG-06	CLL	R434986
Cadmium (Cd)	0.00431		0.00005	mg/L		25-AUG-06	CLL	R434986

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-8 STATION 7 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals - Dissolved								
Cobalt (Co)	0.0117		0.0001	mg/L		25-AUG-06	CLL	R434986
Chromium (Cr)	<0.00006		0.00006	mg/L		25-AUG-06	CLL	R434986
Copper (Cu)	0.0205		0.0006	mg/L		25-AUG-06	CLL	R434986
Mercury (Hg)	<0.00002		0.00002	mg/L		25-AUG-06	CLL	R434986
Potassium (K)	0.41		0.02	mg/L		25-AUG-06	CLL	R434986
Magnesium (Mg)	3.84		0.004	mg/L		25-AUG-06	CLL	R434986
Manganese (Mn)	0.132		0.0001	mg/L		25-AUG-06	CLL	R434986
Molybdenum (Mo)	0.00033		0.00006	mg/L		25-AUG-06	CLL	R434986
Sodium (Na)	0.317		0.005	mg/L		25-AUG-06	CLL	R434986
Nickel (Ni)	0.0907		0.00006	mg/L		25-AUG-06	CLL	R434986
Lead (Pb)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Antimony (Sb)	0.00024		0.00003	mg/L		25-AUG-06	CLL	R434986
Selenium (Se)	0.0008		0.0001	mg/L		25-AUG-06	CLL	R434986
Strontium (Sr)	0.0505		0.0001	mg/L		25-AUG-06	CLL	R434986
Uranium (U)	0.00008		0.00005	mg/L		25-AUG-06	CLL	R434986
Vanadium (V)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Zinc (Zn)	0.327		0.0008	mg/L		25-AUG-06	CLL	R434986
Ultra-Low Metals								
Iron (Fe)	1.00		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		25-AUG-06	CLL	R434986
Aluminum (Al)	2.04		0.0003	mg/L		25-AUG-06	CLL	R434986
Arsenic (As)	0.00068		0.00003	mg/L		25-AUG-06	CLL	R434986
Boron (B)	<0.001		0.001	mg/L		25-AUG-06	CLL	R434986
Barium (Ba)	0.0410		0.00005	mg/L		25-AUG-06	CLL	R434986
Beryllium (Be)	0.0003		0.0002	mg/L		25-AUG-06	CLL	R434986
Calcium (Ca)	16.8		0.02	mg/L		25-AUG-06	CLL	R434986
Cadmium (Cd)	0.00432		0.00005	mg/L		25-AUG-06	CLL	R434986
Cobalt (Co)	0.0119		0.0001	mg/L		25-AUG-06	CLL	R434986
Chromium (Cr)	0.00040		0.00006	mg/L		25-AUG-06	CLL	R434986
Copper (Cu)	0.0459		0.0006	mg/L		25-AUG-06	CLL	R434986
Mercury (Hg)	<0.00002		0.00002	mg/L		25-AUG-06	CLL	R434986
Potassium (K)	0.43		0.02	mg/L		25-AUG-06	CLL	R434986
Magnesium (Mg)	3.81		0.004	mg/L		25-AUG-06	CLL	R434986
Manganese (Mn)	0.137		0.0001	mg/L		25-AUG-06	CLL	R434986
Molybdenum (Mo)	0.00058		0.00006	mg/L		25-AUG-06	CLL	R434986
Sodium (Na)	0.305		0.005	mg/L		25-AUG-06	CLL	R434986
Nickel (Ni)	0.0923		0.00006	mg/L		25-AUG-06	CLL	R434986
Lead (Pb)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Antimony (Sb)	0.00026		0.00003	mg/L		25-AUG-06	CLL	R434986
Selenium (Se)	0.0009		0.0001	mg/L		25-AUG-06	CLL	R434986
Strontium (Sr)	0.0501		0.0001	mg/L		25-AUG-06	CLL	R434986
Uranium (U)	0.00104		0.00005	mg/L		25-AUG-06	CLL	R434986
Vanadium (V)	0.00166		0.00005	mg/L		25-AUG-06	CLL	R434986
Zinc (Zn)	0.335		0.0008	mg/L		25-AUG-06	CLL	R434986
Ammonia-N	0.013		0.005	mg/L		18-AUG-06	LDC	R431988
Total Organic Carbon	<1		1	mg/L		11-AUG-06	ZOW	R429438
Routine Water Analysis								
Chloride (Cl)	<1		1	mg/L		11-AUG-06	WYA	R429576

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-8 STATION 7 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Routine Water Analysis								
ICP metals and SO4 for routine water								
Calcium (Ca)	21.1		0.5	mg/L		11-AUG-06	MLH	R429958
Potassium (K)	<0.5		0.5	mg/L		11-AUG-06	MLH	R429958
Magnesium (Mg)	5.1		0.1	mg/L		11-AUG-06	MLH	R429958
Sodium (Na)	<1		1	mg/L		11-AUG-06	MLH	R429958
Sulfate (SO4)	64.0		0.5	mg/L		11-AUG-06	MLH	R429958
Ion Balance Calculation								
Ion Balance	111	BL:INT		%		14-AUG-06		
TDS (Calculated)	90			mg/L		14-AUG-06		
Hardness (as CaCO3)	74			mg/L		14-AUG-06		
Nitrate+Nitrite-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrate-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrite-N	<0.05		0.05	mg/L		11-AUG-06	SHC	R429820
pH, Conductivity and Total Alkalinity								
pH	6.8		0.1	pH		11-AUG-06	PTT	R429312
Conductivity (EC)	159		0.2	uS/cm		11-AUG-06	PTT	R429312
Bicarbonate (HCO3)	<5		5	mg/L		11-AUG-06	PTT	R429312
Carbonate (CO3)	<5		5	mg/L		11-AUG-06	PTT	R429312
Hydroxide (OH)	<5		5	mg/L		11-AUG-06	PTT	R429312
Alkalinity, Total (as CaCO3)	<5		5	mg/L		11-AUG-06	PTT	R429312
L420382-9 STATION 8 MACTUNG								
Sampled By: SM/KL on 05-AUG-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	<0.005		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		25-AUG-06	CLL	R434986
Aluminum (Al)	0.0297		0.0003	mg/L		25-AUG-06	CLL	R434986
Arsenic (As)	0.00257		0.00003	mg/L		25-AUG-06	CLL	R434986
Boron (B)	<0.001		0.001	mg/L		25-AUG-06	CLL	R434986
Barium (Ba)	0.00847		0.00005	mg/L		25-AUG-06	CLL	R434986
Beryllium (Be)	<0.0002		0.0002	mg/L		25-AUG-06	CLL	R434986
Calcium (Ca)	8.20		0.02	mg/L		25-AUG-06	CLL	R434986
Cadmium (Cd)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Cobalt (Co)	0.0005		0.0001	mg/L		25-AUG-06	CLL	R434986
Chromium (Cr)	<0.00006		0.00006	mg/L		25-AUG-06	CLL	R434986
Copper (Cu)	0.0008		0.0006	mg/L		25-AUG-06	CLL	R434986
Mercury (Hg)	<0.00002		0.00002	mg/L		25-AUG-06	CLL	R434986
Potassium (K)	0.12		0.02	mg/L		25-AUG-06	CLL	R434986
Magnesium (Mg)	0.545		0.004	mg/L		25-AUG-06	CLL	R434986
Manganese (Mn)	0.0304		0.0001	mg/L		25-AUG-06	CLL	R434986
Molybdenum (Mo)	0.00120		0.00006	mg/L		25-AUG-06	CLL	R434986
Sodium (Na)	0.224		0.005	mg/L		25-AUG-06	CLL	R434986
Nickel (Ni)	0.00284		0.00006	mg/L		25-AUG-06	CLL	R434986
Lead (Pb)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Antimony (Sb)	0.00042		0.00003	mg/L		25-AUG-06	CLL	R434986
Selenium (Se)	0.0002		0.0001	mg/L		25-AUG-06	CLL	R434986
Strontium (Sr)	0.0160		0.0001	mg/L		25-AUG-06	CLL	R434986
Uranium (U)	0.00026		0.00005	mg/L		25-AUG-06	CLL	R434986
Vanadium (V)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Zinc (Zn)	0.0039		0.0008	mg/L		25-AUG-06	CLL	R434986

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-9 STATION 8 MACTUNG								
Sampled By: SM/KL on 05-AUG-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals								
Iron (Fe)	0.011		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		25-AUG-06	CLL	R434986
Aluminum (Al)	0.0504		0.0003	mg/L		25-AUG-06	CLL	R434986
Arsenic (As)	0.00308		0.00003	mg/L		25-AUG-06	CLL	R434986
Boron (B)	<0.001		0.001	mg/L		25-AUG-06	CLL	R434986
Barium (Ba)	0.00819		0.00005	mg/L		25-AUG-06	CLL	R434986
Beryllium (Be)	<0.0002		0.0002	mg/L		25-AUG-06	CLL	R434986
Calcium (Ca)	8.10		0.02	mg/L		25-AUG-06	CLL	R434986
Cadmium (Cd)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Cobalt (Co)	0.0005		0.0001	mg/L		25-AUG-06	CLL	R434986
Chromium (Cr)	<0.00006		0.00006	mg/L		25-AUG-06	CLL	R434986
Copper (Cu)	0.0010		0.0006	mg/L		25-AUG-06	CLL	R434986
Mercury (Hg)	<0.00002		0.00002	mg/L		25-AUG-06	CLL	R434986
Potassium (K)	0.13		0.02	mg/L		25-AUG-06	CLL	R434986
Magnesium (Mg)	0.536		0.004	mg/L		25-AUG-06	CLL	R434986
Manganese (Mn)	0.0324		0.0001	mg/L		25-AUG-06	CLL	R434986
Molybdenum (Mo)	0.00116		0.00006	mg/L		25-AUG-06	CLL	R434986
Sodium (Na)	0.217		0.005	mg/L		25-AUG-06	CLL	R434986
Nickel (Ni)	0.00262		0.00006	mg/L		25-AUG-06	CLL	R434986
Lead (Pb)	0.00007		0.00005	mg/L		25-AUG-06	CLL	R434986
Antimony (Sb)	0.00038		0.00003	mg/L		25-AUG-06	CLL	R434986
Selenium (Se)	0.0002		0.0001	mg/L		25-AUG-06	CLL	R434986
Strontium (Sr)	0.0157		0.0001	mg/L		25-AUG-06	CLL	R434986
Uranium (U)	0.00033		0.00005	mg/L		25-AUG-06	CLL	R434986
Vanadium (V)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Zinc (Zn)	0.0028		0.0008	mg/L		25-AUG-06	CLL	R434986
Ammonia-N	<0.005		0.005	mg/L		18-AUG-06	LDC	R431988
Total Organic Carbon	<1		1	mg/L		11-AUG-06	ZOW	R429438
Routine Water Analysis								
Chloride (Cl)	<1		1	mg/L		11-AUG-06	WYA	R429576
ICP metals and SO4 for routine water								
Calcium (Ca)	10.3		0.5	mg/L		11-AUG-06	MLH	R429958
Potassium (K)	<0.5		0.5	mg/L		11-AUG-06	MLH	R429958
Magnesium (Mg)	0.8		0.1	mg/L		11-AUG-06	MLH	R429958
Sodium (Na)	<1		1	mg/L		11-AUG-06	MLH	R429958
Sulfate (SO4)	18.4		0.5	mg/L		11-AUG-06	MLH	R429958
Ion Balance Calculation								
Ion Balance	Low EC			%		14-AUG-06		
TDS (Calculated)	34			mg/L		14-AUG-06		
Hardness (as CaCO3)	29			mg/L		14-AUG-06		
Nitrate+Nitrite-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrate-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrite-N	<0.05		0.05	mg/L		11-AUG-06	SHC	R429820
pH, Conductivity and Total Alkalinity								
pH	7.3		0.1	pH		11-AUG-06	PTT	R429312
Conductivity (EC)	64.6		0.2	uS/cm		11-AUG-06	PTT	R429312
Bicarbonate (HCO3)	10		5	mg/L		11-AUG-06	PTT	R429312
Carbonate (CO3)	<5		5	mg/L		11-AUG-06	PTT	R429312

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-9 STATION 8 MACTUNG								
Sampled By: SM/KL on 05-AUG-06								
Matrix: WATER								
Routine Water Analysis								
pH, Conductivity and Total Alkalinity								
Hydroxide (OH)	<5		5	mg/L		11-AUG-06	PTT	R429312
Alkalinity, Total (as CaCO3)	8		5	mg/L		11-AUG-06	PTT	R429312
L420382-10 STATION 8 DUP MACTUNG								
Sampled By: SM/KL on 05-AUG-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	<0.005		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		25-AUG-06	CLL	R434986
Aluminum (Al)	0.0305		0.0003	mg/L		25-AUG-06	CLL	R434986
Arsenic (As)	0.00247		0.00003	mg/L		25-AUG-06	CLL	R434986
Boron (B)	<0.001		0.001	mg/L		25-AUG-06	CLL	R434986
Barium (Ba)	0.00844		0.00005	mg/L		25-AUG-06	CLL	R434986
Beryllium (Be)	<0.0002		0.0002	mg/L		25-AUG-06	CLL	R434986
Calcium (Ca)	8.19		0.02	mg/L		25-AUG-06	CLL	R434986
Cadmium (Cd)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Cobalt (Co)	0.0005		0.0001	mg/L		25-AUG-06	CLL	R434986
Chromium (Cr)	<0.00006		0.00006	mg/L		25-AUG-06	CLL	R434986
Copper (Cu)	0.0018		0.0006	mg/L		25-AUG-06	CLL	R434986
Mercury (Hg)	<0.00002		0.00002	mg/L		25-AUG-06	CLL	R434986
Potassium (K)	0.13		0.02	mg/L		25-AUG-06	CLL	R434986
Magnesium (Mg)	0.550		0.004	mg/L		25-AUG-06	CLL	R434986
Manganese (Mn)	0.0299		0.0001	mg/L		25-AUG-06	CLL	R434986
Molybdenum (Mo)	0.00119		0.00006	mg/L		25-AUG-06	CLL	R434986
Sodium (Na)	0.226		0.005	mg/L		25-AUG-06	CLL	R434986
Nickel (Ni)	0.00305		0.00006	mg/L		25-AUG-06	CLL	R434986
Lead (Pb)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Antimony (Sb)	0.00041		0.00003	mg/L		25-AUG-06	CLL	R434986
Selenium (Se)	0.0002		0.0001	mg/L		25-AUG-06	CLL	R434986
Strontium (Sr)	0.0157		0.0001	mg/L		25-AUG-06	CLL	R434986
Uranium (U)	0.00025		0.00005	mg/L		25-AUG-06	CLL	R434986
Vanadium (V)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Zinc (Zn)	0.0070	RRV	0.0008	mg/L		25-AUG-06	CLL	R434986
Ultra-Low Metals								
Iron (Fe)	0.009		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		25-AUG-06	CLL	R434986
Aluminum (Al)	0.0520		0.0003	mg/L		25-AUG-06	CLL	R434986
Arsenic (As)	0.00320		0.00003	mg/L		25-AUG-06	CLL	R434986
Boron (B)	<0.001		0.001	mg/L		25-AUG-06	CLL	R434986
Barium (Ba)	0.00847		0.00005	mg/L		25-AUG-06	CLL	R434986
Beryllium (Be)	<0.0002		0.0002	mg/L		25-AUG-06	CLL	R434986
Calcium (Ca)	8.23		0.02	mg/L		25-AUG-06	CLL	R434986
Cadmium (Cd)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Cobalt (Co)	0.0005		0.0001	mg/L		25-AUG-06	CLL	R434986
Chromium (Cr)	<0.00006		0.00006	mg/L		25-AUG-06	CLL	R434986
Copper (Cu)	0.0010		0.0006	mg/L		25-AUG-06	CLL	R434986
Mercury (Hg)	<0.00002		0.00002	mg/L		25-AUG-06	CLL	R434986
Potassium (K)	0.13		0.02	mg/L		25-AUG-06	CLL	R434986
Magnesium (Mg)	0.558		0.004	mg/L		25-AUG-06	CLL	R434986

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-10 STATION 8 DUP MACTUNG								
Sampled By: SM/KL on 05-AUG-06								
Matrix: WATER								
Ultra-Low Metals								
Ultra-Low Metals								
Manganese (Mn)	0.0334		0.0001	mg/L		25-AUG-06	CLL	R434986
Molybdenum (Mo)	0.00121		0.00006	mg/L		25-AUG-06	CLL	R434986
Sodium (Na)	0.224		0.005	mg/L		25-AUG-06	CLL	R434986
Nickel (Ni)	0.00273		0.00006	mg/L		25-AUG-06	CLL	R434986
Lead (Pb)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Antimony (Sb)	0.00033		0.00003	mg/L		25-AUG-06	CLL	R434986
Selenium (Se)	0.0003		0.0001	mg/L		25-AUG-06	CLL	R434986
Strontium (Sr)	0.0159		0.0001	mg/L		25-AUG-06	CLL	R434986
Uranium (U)	0.00033		0.00005	mg/L		25-AUG-06	CLL	R434986
Vanadium (V)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Zinc (Zn)	0.0028		0.0008	mg/L		25-AUG-06	CLL	R434986
Ammonia-N	<0.005		0.005	mg/L		18-AUG-06	LDC	R431988
Total Organic Carbon	1		1	mg/L		11-AUG-06	ZOW	R429438
Routine Water Analysis								
Chloride (Cl)	<1		1	mg/L		11-AUG-06	WYA	R429576
ICP metals and SO4 for routine water								
Calcium (Ca)	10.3		0.5	mg/L		11-AUG-06	MLH	R429958
Potassium (K)	<0.5		0.5	mg/L		11-AUG-06	MLH	R429958
Magnesium (Mg)	0.8		0.1	mg/L		11-AUG-06	MLH	R429958
Sodium (Na)	<1		1	mg/L		11-AUG-06	MLH	R429958
Sulfate (SO4)	18.5		0.5	mg/L		11-AUG-06	MLH	R429958
Ion Balance Calculation								
Ion Balance	Low EC			%		14-AUG-06		
TDS (Calculated)	35			mg/L		14-AUG-06		
Hardness (as CaCO3)	29			mg/L		14-AUG-06		
Nitrate+Nitrite-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrate-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrite-N	<0.05		0.05	mg/L		11-AUG-06	SHC	R429820
pH, Conductivity and Total Alkalinity								
pH	7.3		0.1	pH		11-AUG-06	PTT	R429312
Conductivity (EC)	64.3		0.2	uS/cm		11-AUG-06	PTT	R429312
Bicarbonate (HCO3)	11		5	mg/L		11-AUG-06	PTT	R429312
Carbonate (CO3)	<5		5	mg/L		11-AUG-06	PTT	R429312
Hydroxide (OH)	<5		5	mg/L		11-AUG-06	PTT	R429312
Alkalinity, Total (as CaCO3)	9		5	mg/L		11-AUG-06	PTT	R429312
L420382-11 STATION 9 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.758		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		25-AUG-06	CLL	R434986
Aluminum (Al)	5.16		0.0003	mg/L		25-AUG-06	CLL	R434986
Arsenic (As)	0.00010		0.00003	mg/L		25-AUG-06	CLL	R434986
Boron (B)	0.001		0.001	mg/L		25-AUG-06	CLL	R434986
Barium (Ba)	0.0256		0.00005	mg/L		25-AUG-06	CLL	R434986
Beryllium (Be)	0.0005		0.0002	mg/L		25-AUG-06	CLL	R434986
Calcium (Ca)	22.0		0.02	mg/L		25-AUG-06	CLL	R434986
Cadmium (Cd)	0.0199		0.00005	mg/L		25-AUG-06	CLL	R434986

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-11 STATION 9 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals - Dissolved								
Cobalt (Co)	0.0274		0.0001	mg/L		25-AUG-06	CLL	R434986
Chromium (Cr)	0.00007		0.00006	mg/L		25-AUG-06	CLL	R434986
Copper (Cu)	0.0572		0.0006	mg/L		25-AUG-06	CLL	R434986
Mercury (Hg)	<0.00002		0.00002	mg/L		25-AUG-06	CLL	R434986
Potassium (K)	0.61		0.02	mg/L		25-AUG-06	CLL	R434986
Magnesium (Mg)	10.1		0.004	mg/L		25-AUG-06	CLL	R434986
Manganese (Mn)	0.438		0.0001	mg/L		25-AUG-06	CLL	R434986
Molybdenum (Mo)	<0.00006		0.00006	mg/L		25-AUG-06	CLL	R434986
Sodium (Na)	0.205		0.005	mg/L		25-AUG-06	CLL	R434986
Nickel (Ni)	0.202		0.00006	mg/L		25-AUG-06	CLL	R434986
Lead (Pb)	0.00007		0.00005	mg/L		25-AUG-06	CLL	R434986
Antimony (Sb)	0.00015		0.00003	mg/L		25-AUG-06	CLL	R434986
Selenium (Se)	0.0015		0.0001	mg/L		25-AUG-06	CLL	R434986
Strontium (Sr)	0.0930		0.0001	mg/L		25-AUG-06	CLL	R434986
Uranium (U)	0.00209		0.00005	mg/L		25-AUG-06	CLL	R434986
Vanadium (V)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Zinc (Zn)	0.792		0.0008	mg/L		25-AUG-06	CLL	R434986
Ultra-Low Metals								
Iron (Fe)	3.35		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		25-AUG-06	CLL	R434986
Aluminum (Al)	5.33		0.0003	mg/L		25-AUG-06	CLL	R434986
Arsenic (As)	0.00047		0.00003	mg/L		25-AUG-06	CLL	R434986
Boron (B)	0.001		0.001	mg/L		25-AUG-06	CLL	R434986
Barium (Ba)	0.0248		0.00005	mg/L		25-AUG-06	CLL	R434986
Beryllium (Be)	0.0005		0.0002	mg/L		25-AUG-06	CLL	R434986
Calcium (Ca)	20.9		0.02	mg/L		25-AUG-06	CLL	R434986
Cadmium (Cd)	0.0192		0.00005	mg/L		25-AUG-06	CLL	R434986
Cobalt (Co)	0.0261		0.0001	mg/L		25-AUG-06	CLL	R434986
Chromium (Cr)	0.00140		0.00006	mg/L		25-AUG-06	CLL	R434986
Copper (Cu)	0.0555		0.0006	mg/L		25-AUG-06	CLL	R434986
Mercury (Hg)	<0.00002		0.00002	mg/L		25-AUG-06	CLL	R434986
Potassium (K)	0.58		0.02	mg/L		25-AUG-06	CLL	R434986
Magnesium (Mg)	9.67		0.004	mg/L		25-AUG-06	CLL	R434986
Manganese (Mn)	0.429		0.0001	mg/L		25-AUG-06	CLL	R434986
Molybdenum (Mo)	0.00034		0.00006	mg/L		25-AUG-06	CLL	R434986
Sodium (Na)	0.191		0.005	mg/L		25-AUG-06	CLL	R434986
Nickel (Ni)	0.194		0.00006	mg/L		25-AUG-06	CLL	R434986
Lead (Pb)	0.00012		0.00005	mg/L		25-AUG-06	CLL	R434986
Antimony (Sb)	0.00012		0.00003	mg/L		25-AUG-06	CLL	R434986
Selenium (Se)	0.0015		0.0001	mg/L		25-AUG-06	CLL	R434986
Strontium (Sr)	0.0891		0.0001	mg/L		25-AUG-06	CLL	R434986
Uranium (U)	0.00225		0.00005	mg/L		25-AUG-06	CLL	R434986
Vanadium (V)	0.00287		0.00005	mg/L		25-AUG-06	CLL	R434986
Zinc (Zn)	0.742		0.0008	mg/L		25-AUG-06	CLL	R434986
Ammonia-N	0.034		0.005	mg/L		18-AUG-06	LDC	R431988
Total Organic Carbon	<1		1	mg/L		11-AUG-06	ZOW	R429438
Routine Water Analysis								
Chloride (Cl)	<1		1	mg/L		11-AUG-06	WYA	R429576

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-11 STATION 9 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Routine Water Analysis								
ICP metals and SO4 for routine water								
Calcium (Ca)	28.5		0.5	mg/L		11-AUG-06	MLH	R429958
Potassium (K)	0.8		0.5	mg/L		11-AUG-06	MLH	R429958
Magnesium (Mg)	14.1		0.1	mg/L		11-AUG-06	MLH	R429958
Sodium (Na)	<1		1	mg/L		11-AUG-06	MLH	R429958
Sulfate (SO4)	155		0.5	mg/L		11-AUG-06	MLH	R429958
Ion Balance Calculation								
Ion Balance	80.7	BL:INT		%		17-AUG-06		
TDS (Calculated)	198			mg/L		17-AUG-06		
Hardness (as CaCO3)	129			mg/L		17-AUG-06		
Nitrate+Nitrite-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrate-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrite-N	<0.05		0.05	mg/L		11-AUG-06	SHC	R429820
pH, Conductivity and Total Alkalinity								
pH	4.4		0.1	pH		11-AUG-06	PTT	R429312
Conductivity (EC)	313		0.2	uS/cm		11-AUG-06	PTT	R429312
Bicarbonate (HCO3)	<5		5	mg/L		11-AUG-06	PTT	R429312
Carbonate (CO3)	<5		5	mg/L		11-AUG-06	PTT	R429312
Hydroxide (OH)	<5		5	mg/L		11-AUG-06	PTT	R429312
Alkalinity, Total (as CaCO3)	<5		5	mg/L		11-AUG-06	PTT	R429312
L420382-12 FIELD BLANK MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	<0.005		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Aluminum (Al)	0.0022	RRV	0.0003	mg/L		22-AUG-06	CLL	R433768
Arsenic (As)	<0.00003		0.00003	mg/L		22-AUG-06	CLL	R433768
Boron (B)	<0.001		0.001	mg/L		22-AUG-06	CLL	R433768
Barium (Ba)	0.00007	RRV	0.00005	mg/L		22-AUG-06	CLL	R433768
Beryllium (Be)	<0.0002		0.0002	mg/L		22-AUG-06	CLL	R433768
Calcium (Ca)	0.06	RRV	0.02	mg/L		22-AUG-06	CLL	R433768
Cadmium (Cd)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Cobalt (Co)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Chromium (Cr)	<0.00006		0.00006	mg/L		22-AUG-06	CLL	R433768
Copper (Cu)	<0.0006		0.0006	mg/L		22-AUG-06	CLL	R433768
Mercury (Hg)	<0.00002		0.00002	mg/L		22-AUG-06	CLL	R433768
Potassium (K)	<0.02		0.02	mg/L		22-AUG-06	CLL	R433768
Magnesium (Mg)	<0.004		0.004	mg/L		22-AUG-06	CLL	R433768
Manganese (Mn)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Molybdenum (Mo)	<0.00006		0.00006	mg/L		22-AUG-06	CLL	R433768
Sodium (Na)	0.240	RRV	0.005	mg/L		22-AUG-06	CLL	R433768
Nickel (Ni)	0.00007	RRV	0.00006	mg/L		22-AUG-06	CLL	R433768
Lead (Pb)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Selenium (Se)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Strontium (Sr)	0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Uranium (U)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Vanadium (V)	<0.00005		0.00005	mg/L		31-AUG-06	CLL	R437552
Zinc (Zn)	0.0015	RRV	0.0008	mg/L		22-AUG-06	CLL	R433768
Ultra-Low Metals								

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-12 FIELD BLANK MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Ultra-Low Metals								
Iron (Fe)	<0.005		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Aluminum (Al)	0.0020		0.0003	mg/L		22-AUG-06	CLL	R433768
Arsenic (As)	<0.00003		0.00003	mg/L		22-AUG-06	CLL	R433768
Boron (B)	<0.001		0.001	mg/L		22-AUG-06	CLL	R433768
Barium (Ba)	0.00007		0.00005	mg/L		22-AUG-06	CLL	R433768
Beryllium (Be)	<0.0002		0.0002	mg/L		22-AUG-06	CLL	R433768
Calcium (Ca)	0.04		0.02	mg/L		22-AUG-06	CLL	R433768
Cadmium (Cd)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Cobalt (Co)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Chromium (Cr)	<0.00006		0.00006	mg/L		22-AUG-06	CLL	R433768
Copper (Cu)	<0.0006		0.0006	mg/L		22-AUG-06	CLL	R433768
Mercury (Hg)	<0.00002		0.00002	mg/L		22-AUG-06	CLL	R433768
Potassium (K)	<0.02		0.02	mg/L		22-AUG-06	CLL	R433768
Magnesium (Mg)	<0.004		0.004	mg/L		22-AUG-06	CLL	R433768
Manganese (Mn)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Molybdenum (Mo)	<0.00006		0.00006	mg/L		22-AUG-06	CLL	R433768
Sodium (Na)	0.239		0.005	mg/L		22-AUG-06	CLL	R433768
Nickel (Ni)	<0.00006		0.00006	mg/L		22-AUG-06	CLL	R433768
Lead (Pb)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Antimony (Sb)	0.00021		0.00003	mg/L		22-AUG-06	CLL	R433768
Selenium (Se)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Strontium (Sr)	0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Uranium (U)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Vanadium (V)	0.00118		0.00005	mg/L		22-AUG-06	CLL	R433768
Zinc (Zn)	<0.0008		0.0008	mg/L		22-AUG-06	CLL	R433768
Ammonia-N	<0.005		0.005	mg/L		18-AUG-06	LDC	R431988
Total Organic Carbon	<1		1	mg/L		11-AUG-06	ZOW	R429438
Routine Water Analysis								
Chloride (Cl)	<1		1	mg/L		11-AUG-06	WYA	R429576
ICP metals and SO4 for routine water								
Calcium (Ca)	<0.5		0.5	mg/L		14-AUG-06	JWU	R430125
Potassium (K)	<0.5		0.5	mg/L		14-AUG-06	JWU	R430125
Magnesium (Mg)	<0.1		0.1	mg/L		14-AUG-06	JWU	R430125
Sodium (Na)	<1		1	mg/L		14-AUG-06	JWU	R430125
Sulfate (SO4)	<0.5		0.5	mg/L		14-AUG-06	JWU	R430125
Ion Balance Calculation								
Ion Balance	Low TDS			%		15-AUG-06		
TDS (Calculated)	<1			mg/L		15-AUG-06		
Hardness (as CaCO3)	<1			mg/L		15-AUG-06		
Nitrate+Nitrite-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrate-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrite-N	<0.05		0.05	mg/L		11-AUG-06	SHC	R429820
pH, Conductivity and Total Alkalinity								
pH	6.3		0.1	pH		11-AUG-06	PTT	R429312
Conductivity (EC)	1.6		0.2	uS/cm		11-AUG-06	PTT	R429312
Bicarbonate (HCO3)	<5		5	mg/L		11-AUG-06	PTT	R429312
Carbonate (CO3)	<5		5	mg/L		11-AUG-06	PTT	R429312
Hydroxide (OH)	<5		5	mg/L		11-AUG-06	PTT	R429312

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-12 FIELD BLANK MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Routine Water Analysis								
pH, Conductivity and Total Alkalinity								
Alkalinity, Total (as CaCO3)	<5		5	mg/L		11-AUG-06	PTT	R429312
L420382-13 TRAVEL BLANK MACTUNG								
Sampled By: NOT PROVIDED								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	<0.005		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Aluminum (Al)	<0.0003		0.0003	mg/L		22-AUG-06	CLL	R433768
Arsenic (As)	<0.00003		0.00003	mg/L		22-AUG-06	CLL	R433768
Boron (B)	<0.001		0.001	mg/L		22-AUG-06	CLL	R433768
Barium (Ba)	0.00010	RRV	0.00005	mg/L		22-AUG-06	CLL	R433768
Beryllium (Be)	<0.0002		0.0002	mg/L		22-AUG-06	CLL	R433768
Calcium (Ca)	<0.02		0.02	mg/L		22-AUG-06	CLL	R433768
Cadmium (Cd)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Cobalt (Co)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Chromium (Cr)	<0.00006		0.00006	mg/L		22-AUG-06	CLL	R433768
Copper (Cu)	0.0030	RRV	0.0006	mg/L		22-AUG-06	CLL	R433768
Mercury (Hg)	<0.00002		0.00002	mg/L		22-AUG-06	CLL	R433768
Potassium (K)	<0.02		0.02	mg/L		22-AUG-06	CLL	R433768
Magnesium (Mg)	<0.004		0.004	mg/L		22-AUG-06	CLL	R433768
Manganese (Mn)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Molybdenum (Mo)	<0.00006		0.00006	mg/L		22-AUG-06	CLL	R433768
Sodium (Na)	<0.005		0.005	mg/L		31-AUG-06	CLL	R437552
Nickel (Ni)	<0.00006		0.00006	mg/L		22-AUG-06	CLL	R433768
Lead (Pb)	0.00011	RRV	0.00005	mg/L		22-AUG-06	CLL	R433768
Antimony (Sb)	0.00022	RRV	0.00003	mg/L		22-AUG-06	CLL	R433768
Selenium (Se)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Strontium (Sr)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Uranium (U)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Vanadium (V)	<0.00005		0.00005	mg/L		31-AUG-06	CLL	R437552
Zinc (Zn)	<0.0008		0.0008	mg/L		22-AUG-06	CLL	R433768
Ultra-Low Metals								
Iron (Fe)	<0.005		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Aluminum (Al)	<0.0003		0.0003	mg/L		22-AUG-06	CLL	R433768
Arsenic (As)	<0.00003		0.00003	mg/L		22-AUG-06	CLL	R433768
Boron (B)	<0.001		0.001	mg/L		22-AUG-06	CLL	R433768
Barium (Ba)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Beryllium (Be)	<0.0002		0.0002	mg/L		22-AUG-06	CLL	R433768
Calcium (Ca)	<0.02		0.02	mg/L		22-AUG-06	CLL	R433768
Cadmium (Cd)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Cobalt (Co)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Chromium (Cr)	<0.00006		0.00006	mg/L		22-AUG-06	CLL	R433768
Copper (Cu)	<0.0006	RRV	0.0006	mg/L		22-AUG-06	CLL	R433768
Mercury (Hg)	<0.00002		0.00002	mg/L		22-AUG-06	CLL	R433768
Potassium (K)	<0.02		0.02	mg/L		22-AUG-06	CLL	R433768
Magnesium (Mg)	<0.004		0.004	mg/L		22-AUG-06	CLL	R433768
Manganese (Mn)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-13 TRAVEL BLANK MACTUNG								
Sampled By: NOT PROVIDED								
Matrix: WATER								
Ultra-Low Metals								
Ultra-Low Metals								
Molybdenum (Mo)	<0.00006		0.00006	mg/L		22-AUG-06	CLL	R433768
Sodium (Na)	0.007		0.005	mg/L		22-AUG-06	CLL	R433768
Nickel (Ni)	<0.00006		0.00006	mg/L		22-AUG-06	CLL	R433768
Lead (Pb)	<0.00005	RRV	0.00005	mg/L		22-AUG-06	CLL	R433768
Antimony (Sb)	0.00016	RRV	0.00003	mg/L		22-AUG-06	CLL	R433768
Selenium (Se)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Strontium (Sr)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Uranium (U)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Vanadium (V)	<0.00005		0.00005	mg/L		31-AUG-06	CLL	R437552
Zinc (Zn)	<0.0008		0.0008	mg/L		22-AUG-06	CLL	R433768
Ammonia-N	<0.005		0.005	mg/L		18-AUG-06	LDC	R431988
Total Organic Carbon	<1		1	mg/L		11-AUG-06	ZOW	R429438
Routine Water Analysis								
Chloride (Cl)	<1		1	mg/L		11-AUG-06	WYA	R429576
ICP metals and SO4 for routine water								
Calcium (Ca)	<0.5		0.5	mg/L		14-AUG-06	JWU	R430125
Potassium (K)	<0.5		0.5	mg/L		14-AUG-06	JWU	R430125
Magnesium (Mg)	<0.1		0.1	mg/L		14-AUG-06	JWU	R430125
Sodium (Na)	<1		1	mg/L		14-AUG-06	JWU	R430125
Sulfate (SO4)	<0.5		0.5	mg/L		14-AUG-06	JWU	R430125
Ion Balance Calculation								
Ion Balance	Low EC			%		15-AUG-06		
TDS (Calculated)	1			mg/L		15-AUG-06		
Hardness (as CaCO3)	<1			mg/L		15-AUG-06		
Nitrate+Nitrite-N	0.3		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrate-N	0.3		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrite-N	<0.05		0.05	mg/L		11-AUG-06	SHC	R429820
pH, Conductivity and Total Alkalinity								
pH	5.5		0.1	pH		11-AUG-06	PTT	R429312
Conductivity (EC)	1.2		0.2	uS/cm		11-AUG-06	PTT	R429312
Bicarbonate (HCO3)	<5		5	mg/L		11-AUG-06	PTT	R429312
Carbonate (CO3)	<5		5	mg/L		11-AUG-06	PTT	R429312
Hydroxide (OH)	<5		5	mg/L		11-AUG-06	PTT	R429312
Alkalinity, Total (as CaCO3)	<5		5	mg/L		11-AUG-06	PTT	R429312

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
BL:INT	Balance Reviewed: Interference Or Non-Measured Component
RRV	Reported Result Verified By Repeat Analysis

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Preparation Method Reference(Based On)	Analytical Method Reference(Based On)
C-TOT-ORG-ED	Water	Total Organic Carbon		APHA 5310 B-Instrumental
CL-ED	Water	Chloride (Cl)		APHA 4500 Cl E-Colorimetry
ETL-ROUTINE-ICP-ED	Water	ICP metals and SO4 for routine water		APHA 3120 B-ICP-OES
IONBALANCE-ED	Water	Ion Balance Calculation		APHA 1030E
MET1-TOT-LOW-ED	Water	Total Trace Metals (Low Level)	EPA3015	EPA 6020
MET1-ULTRA-DIS-ED	Water	Ultra-Low Metals - Dissolved		EPA 6020
MET1-ULTRA-ED	Water	Ultra-Low Metals		EPA 6020
MET2-TOT-LOW-ED	Water	Total Major Metals	EPA3015	EPA 200.7
MET2-ULTRA-DIS-ED	Water	Major Metals - Dissolved		EPA 200.7
MET2-ULTRA-ED	Water	Major Metals		EPA 200.7
N2N3-ED	Water	Nitrate+Nitrite-N		APHA 4500 NO3H-Colorimetry
NH4-LOW-ED	Water	Ammonia-N		APHA 4500 NH3F-Colorimetry
NO2-ED	Water	Nitrite-N		APHA 4500 NO2B-Colorimetry
NO3-ED	Water	Nitrate-N		APHA 4500 NO3H-Colorimetry
PH/EC/ALK-ED	Water	pH, Conductivity and Total Alkalinity		APHA 4500-H, 2510, 2320

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

Chain of Custody numbers:

261004 261005

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
ED	ALS LABORATORY GROUP - EDMONTON, ALBERTA, CANADA		

Reference Information

GLOSSARY OF REPORT TERMS
Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.
The reported surrogate recovery value provides a measure of method efficiency. The Laboratory control limits are determined under column heading D.L.
mg/kg (units) - unit of concentration based on mass, parts per million.
mg/L (units) - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
UNLESS OTHERWISE STATED, SAMPLES ARE NOT CORRECTED FOR CLIENT FIELD BLANKS.
Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

ETL Enviro-Test LABORATORIES

CHAIN OF CUSTODY / ANALYTICAL REQUEST FORM

CANADA TOLL FREE 1-800-668-9878

WWW.ENVIROTEST.COM

COC # 261004

DATE: Aug 9/06

LAB WORK ORDER # L420382

REPORT TO:

COMPANY: EBA Engineering Consultants

CONTACT: Steve Moore

ADDRESS: P.O. Box 2244, #201, 4916-49st

Yellowknife, NT X1A 2P7

PHONE: (867)920-2287 FAX: (867)873-3324

CELLPHONE:

INVOICE TO: SAME (Y) / N

COMPANY:

CONTACT:

ADDRESS:

PHONE: FAX:

REPORT DISTRIBUTION ALL FINAL RESULTS WILL BE MAILED

EMAIL ✓ FAX

EMAIL 1: smoore@eba.ca

EMAIL 2: klanglais@eba.ca

DIGITAL EMAIL:

SELECT: pdf digital both ✓

JOB # ~~1200163~~ 1200163

PO/AFE:

LSD:

QUOTE #

SERVICE REQUESTED

- ✓ REGULAR SERVICE (DEFAULT)
- PRIORITY SERVICE (50% SURCHARGE)
- EMERGENCY SERVICE (100% SURCHARGE)

ANALYSIS REQUEST

INDICATE BOTTLES: FILTERED/PRESERVED (F/P) ▶

SAMPLE ID	SAMPLING LOCATION	SAMPLED BY / DATE / TIME	SAMPLING METHOD	SAMPLE TYPE	Nutrients	Routine	TOC	Ultra Low Level Total Metals	Ultra Low Level Dissolved Metals						HAZARDOUS ?	NUMBER OF CONTAINERS	HIGHLY CONTAMINATED ?	LAB SAMPLE #
Station 1	MacTung	SM/KL/Aug 6/06	Grab	Water	✓	✓	✓	✓	✓									
Station 2	" "	" "	"	"	✓	✓	✓	✓	✓									
Station 3	" "	" "	"	"	✓	✓	✓	✓	✓									
Station 3 Dup	" "	" "	"	"	✓	✓	✓	✓	✓									
Station 4	" "	" "	"	"	✓	✓	✓	✓	✓									
Station 5	" "	SM/KL/Aug 5/06	"	"	✓	✓	✓	✓	✓									
Station 6	" "	SM/KL/Aug 6/06	"	"	✓	✓	✓	✓	✓									
Station 7	" "	" "	"	"	✓	✓	✓	✓	✓									
Station 8	" "	SM/KL/Aug 5/06	"	"	✓	✓	✓	✓	✓									
Station 8 Dup	" "	"	"	"	✓	✓	✓	✓	✓									
Station 9	" "	SM/KL/Aug 6/06	"	"	✓	✓	✓	✓	✓									
Field Blank	" "	" "	"	"	✓	✓	✓	✓	✓									

GUIDELINES / REGULATIONS

CCME

SPECIAL INSTRUCTIONS / NATURE OF HAZARDOUS MATERIAL

SAMPLE CONDITION

- FROZEN
- ✓ COLD
- AMBIENT

MEAN TEMPERATURE: 5.6

Failure to complete all portions of this form may delay analysis. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the reverse of the white report copy.

RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	SAMPLE CONDITION ACCEPTABLE UPON RECEIPT ? (Y/N)
Kaula Langlais	Aug 9/06		10 Aug 06 10:35	
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	

CHAIN OF CUSTODY / ANALYTICAL REQUEST FORM

ETL EnviroTest LABORATORIES

CANADA TOLL FREE 1-800-668-9878

WWW.ENVIROTEST.COM

COC #261005

DATE: Aug 9/04

LAB WORK ORDER #

REPORT TO:

COMPANY: EBA Engineering Consultants

CONTACT: Steve Moore

ADDRESS: #201, 4916-49 St

Yellowknife, NT X1A 2P7

PHONE: (867) 920-2287 FAX: (867) 873-3324

CELLPHONE:

REPORT DISTRIBUTION ALL FINAL RESULTS WILL BE MAILED

EMAIL ✓ FAX

EMAIL 1: smoore@eba.ca

EMAIL 2: klanglois@eba.ca

DIGITAL EMAIL:

SELECT: pdf digital both ✓

SERVICE REQUESTED

- ✓ REGULAR SERVICE (DEFAULT)
- PRIORITY SERVICE (50% SURCHARGE)
- EMERGENCY SERVICE (100% SURCHARGE)

INVOICE TO: SAME (Y) N

COMPANY:

CONTACT:

ADDRESS:

PHONE: FAX:

JOB # 1200163

PO/AFE:

LSD:

QUOTE #

INDICATE BOTTLES: FILTERED/PRESERVED (F/P) ▶

ANALYSIS REQUEST

SAMPLE ID	SAMPLING LOCATION	SAMPLED BY / DATE / TIME	SAMPLING METHOD	SAMPLE TYPE	Nutrients	Routine	TOC	Ultra Low level Total Metals	Ultra Low level Dissolved Metals	HAZARDOUS ?	NUMBER OF CONTAINERS	HIGHLY CONTAMINATED ?	LAB SAMPLE #
Travel Blank	MacKay MacTung			Water	✓	✓	✓	✓	✓				
Filter Blank	MacKay MacTung			Filter				✓	✓				

GUIDELINES / REGULATIONS: CCME

SPECIAL INSTRUCTIONS / NATURE OF HAZARDOUS MATERIAL:

SAMPLE CONDITION

- FROZEN
- COLD
- AMBIENT

MEAN TEMPERATURE

Failure to complete all portions of this form may delay analysis. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the reverse of the white report copy.

RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	SAMPLE CONDITION ACCEPTABLE UPON RECEIPT ? (Y/N)
Kaula Langlois	Aug 9/04			
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	

3250225-03003

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

PRELIMINARY RESULTS

EBA ENG CONSULTANTS LTD
ATTN: STEVE MOORE
201-4916 49 STREET
YELLOWKNIFE NT X1A 2P7

Reported On: 01-SEP-06 05:27 PM

Lab Work Order #: L420382 **Date Received:** 10-AUG-06

Project P.O. #:
Job Reference: 1200163
Legal Site Desc:
CofC Numbers: 261004, 261005

Other Information:

Comments: L420382-3, -4, -5; Total metal analysis was changed from ultra low to low level becuase the samples contained too many suspended solids.

ROY JONES
General Manager

For any questions about this report please contact your Account Manager:

CATHERINE EVARISTO-CORDERO

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-1 STATION 1 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	<0.005		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Aluminum (Al)	0.0378		0.0003	mg/L		22-AUG-06	CLL	R433768
Arsenic (As)	0.00099		0.00003	mg/L		22-AUG-06	CLL	R433768
Boron (B)	0.007		0.001	mg/L		22-AUG-06	CLL	R433768
Barium (Ba)	0.0414		0.00005	mg/L		22-AUG-06	CLL	R433768
Beryllium (Be)	<0.0002		0.0002	mg/L		22-AUG-06	CLL	R433768
Calcium (Ca)	55.2		0.02	mg/L		22-AUG-06	CLL	R433768
Cadmium (Cd)	0.00123		0.00005	mg/L		22-AUG-06	CLL	R433768
Cobalt (Co)	0.0021		0.0001	mg/L		22-AUG-06	CLL	R433768
Chromium (Cr)	0.00014		0.00006	mg/L		22-AUG-06	CLL	R433768
Copper (Cu)	0.0017		0.0006	mg/L		22-AUG-06	CLL	R433768
Mercury (Hg)	<0.00002		0.00002	mg/L		22-AUG-06	CLL	R433768
Potassium (K)	0.87		0.02	mg/L		22-AUG-06	CLL	R433768
Magnesium (Mg)	4.51		0.004	mg/L		22-AUG-06	CLL	R433768
Manganese (Mn)	0.0460		0.0001	mg/L		22-AUG-06	CLL	R433768
Molybdenum (Mo)	0.00466		0.00006	mg/L		22-AUG-06	CLL	R433768
Sodium (Na)	1.60		0.005	mg/L		22-AUG-06	CLL	R433768
Nickel (Ni)	0.0270		0.00006	mg/L		22-AUG-06	CLL	R433768
Lead (Pb)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Antimony (Sb)	0.00040		0.00003	mg/L		22-AUG-06	CLL	R433768
Selenium (Se)	0.0035		0.0001	mg/L		22-AUG-06	CLL	R433768
Strontium (Sr)	0.173		0.0001	mg/L		22-AUG-06	CLL	R433768
Uranium (U)	0.00191		0.00005	mg/L		22-AUG-06	CLL	R433768
Vanadium (V)	0.00182		0.00005	mg/L		22-AUG-06	CLL	R433768
Zinc (Zn)	0.0851		0.0008	mg/L		22-AUG-06	CLL	R433768
Ultra-Low Metals								
Iron (Fe)	0.008		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Aluminum (Al)	0.351		0.0003	mg/L		22-AUG-06	CLL	R433768
Arsenic (As)	0.00143		0.00003	mg/L		22-AUG-06	CLL	R433768
Boron (B)	0.007		0.001	mg/L		22-AUG-06	CLL	R433768
Barium (Ba)	0.0421		0.00005	mg/L		22-AUG-06	CLL	R433768
Beryllium (Be)	<0.0002		0.0002	mg/L		22-AUG-06	CLL	R433768
Calcium (Ca)	59.4		0.02	mg/L		22-AUG-06	CLL	R433768
Cadmium (Cd)	0.00130		0.00005	mg/L		22-AUG-06	CLL	R433768
Cobalt (Co)	0.0022		0.0001	mg/L		22-AUG-06	CLL	R433768
Chromium (Cr)	0.00017		0.00006	mg/L		22-AUG-06	CLL	R433768
Copper (Cu)	0.0038		0.0006	mg/L		22-AUG-06	CLL	R433768
Mercury (Hg)	<0.00002		0.00002	mg/L		22-AUG-06	CLL	R433768
Potassium (K)	0.96		0.02	mg/L		22-AUG-06	CLL	R433768
Magnesium (Mg)	4.88		0.004	mg/L		22-AUG-06	CLL	R433768
Manganese (Mn)	0.0512		0.0001	mg/L		22-AUG-06	CLL	R433768
Molybdenum (Mo)	0.00474		0.00006	mg/L		22-AUG-06	CLL	R433768
Sodium (Na)	1.74		0.005	mg/L		22-AUG-06	CLL	R433768
Nickel (Ni)	0.0280		0.00006	mg/L		22-AUG-06	CLL	R433768
Lead (Pb)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Antimony (Sb)	0.00046		0.00003	mg/L		22-AUG-06	CLL	R433768
Selenium (Se)	0.0035		0.0001	mg/L		22-AUG-06	CLL	R433768

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-1 STATION 1 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Ultra-Low Metals								
Ultra-Low Metals								
Strontium (Sr)	0.178		0.0001	mg/L		22-AUG-06	CLL	R433768
Uranium (U)	0.00319		0.00005	mg/L		22-AUG-06	CLL	R433768
Vanadium (V)	0.00187		0.00005	mg/L		22-AUG-06	CLL	R433768
Zinc (Zn)	0.111		0.0008	mg/L		22-AUG-06	CLL	R433768
Ammonia-N	0.005		0.005	mg/L		18-AUG-06	LDC	R431988
Total Organic Carbon	<1		1	mg/L		11-AUG-06	ZOW	R429438
Routine Water Analysis								
Chloride (Cl)	<1		1	mg/L		11-AUG-06	WYA	R429576
ICP metals and SO4 for routine water								
Calcium (Ca)	56.7		0.5	mg/L		11-AUG-06	MLH	R429958
Potassium (K)	1.1		0.5	mg/L		11-AUG-06	MLH	R429958
Magnesium (Mg)	5.2		0.1	mg/L		11-AUG-06	MLH	R429958
Sodium (Na)	2		1	mg/L		11-AUG-06	MLH	R429958
Sulfate (SO4)	104		0.5	mg/L		11-AUG-06	MLH	R429958
Ion Balance Calculation								
Ion Balance	107			%		14-AUG-06		
TDS (Calculated)	199			mg/L		14-AUG-06		
Hardness (as CaCO3)	163			mg/L		14-AUG-06		
Nitrate+Nitrite-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrate-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrite-N	<0.05		0.05	mg/L		11-AUG-06	SHC	R429820
pH, Conductivity and Total Alkalinity								
pH	8.0		0.1	pH		10-AUG-06	PTT	R429312
Conductivity (EC)	314		0.2	uS/cm		10-AUG-06	PTT	R429312
Bicarbonate (HCO3)	61		5	mg/L		10-AUG-06	PTT	R429312
Carbonate (CO3)	<5		5	mg/L		10-AUG-06	PTT	R429312
Hydroxide (OH)	<5		5	mg/L		10-AUG-06	PTT	R429312
Alkalinity, Total (as CaCO3)	50		5	mg/L		10-AUG-06	PTT	R429312
L420382-2 STATION 2 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.210		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Aluminum (Al)	0.0161		0.0003	mg/L		22-AUG-06	CLL	R433768
Arsenic (As)	0.00014		0.00003	mg/L		22-AUG-06	CLL	R433768
Boron (B)	0.003		0.001	mg/L		22-AUG-06	CLL	R433768
Barium (Ba)	0.0479		0.00005	mg/L		22-AUG-06	CLL	R433768
Beryllium (Be)	<0.0002		0.0002	mg/L		22-AUG-06	CLL	R433768
Calcium (Ca)	34.9		0.02	mg/L		22-AUG-06	CLL	R433768
Cadmium (Cd)	0.00606		0.00005	mg/L		22-AUG-06	CLL	R433768
Cobalt (Co)	0.0108		0.0001	mg/L		22-AUG-06	CLL	R433768
Chromium (Cr)	0.00009		0.00006	mg/L		22-AUG-06	CLL	R433768
Copper (Cu)	0.0057		0.0006	mg/L		22-AUG-06	CLL	R433768
Mercury (Hg)	<0.00002		0.00002	mg/L		22-AUG-06	CLL	R433768
Potassium (K)	0.57		0.02	mg/L		22-AUG-06	CLL	R433768
Magnesium (Mg)	8.47		0.004	mg/L		22-AUG-06	CLL	R433768
Manganese (Mn)	0.139		0.0001	mg/L		22-AUG-06	CLL	R433768

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-2 STATION 2 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals - Dissolved								
Molybdenum (Mo)	0.00146		0.00006	mg/L		22-AUG-06	CLL	R433768
Sodium (Na)	0.787		0.005	mg/L		22-AUG-06	CLL	R433768
Nickel (Ni)	0.107		0.00006	mg/L		22-AUG-06	CLL	R433768
Lead (Pb)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Antimony (Sb)	0.00025		0.00003	mg/L		22-AUG-06	CLL	R433768
Selenium (Se)	0.0028		0.0001	mg/L		22-AUG-06	CLL	R433768
Strontium (Sr)	0.159		0.0001	mg/L		22-AUG-06	CLL	R433768
Uranium (U)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Vanadium (V)	0.00094		0.00005	mg/L		22-AUG-06	CLL	R433768
Zinc (Zn)	0.319		0.0008	mg/L		22-AUG-06	CLL	R433768
Ultra-Low Metals								
Iron (Fe)	1.37		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Aluminum (Al)	4.13		0.0003	mg/L		22-AUG-06	CLL	R433768
Arsenic (As)	0.00076		0.00003	mg/L		22-AUG-06	CLL	R433768
Boron (B)	0.003		0.001	mg/L		22-AUG-06	CLL	R433768
Barium (Ba)	0.0480		0.00005	mg/L		22-AUG-06	CLL	R433768
Beryllium (Be)	0.0003		0.0002	mg/L		22-AUG-06	CLL	R433768
Calcium (Ca)	36.9		0.02	mg/L		22-AUG-06	CLL	R433768
Cadmium (Cd)	0.00623		0.00005	mg/L		22-AUG-06	CLL	R433768
Cobalt (Co)	0.0113		0.0001	mg/L		22-AUG-06	CLL	R433768
Chromium (Cr)	0.00080		0.00006	mg/L		22-AUG-06	CLL	R433768
Copper (Cu)	0.0359		0.0006	mg/L		22-AUG-06	CLL	R433768
Mercury (Hg)	<0.00002		0.00002	mg/L		22-AUG-06	CLL	R433768
Potassium (K)	0.62		0.02	mg/L		22-AUG-06	CLL	R433768
Magnesium (Mg)	9.12		0.004	mg/L		22-AUG-06	CLL	R433768
Manganese (Mn)	0.145		0.0001	mg/L		22-AUG-06	CLL	R433768
Molybdenum (Mo)	0.00190		0.00006	mg/L		22-AUG-06	CLL	R433768
Sodium (Na)	0.827		0.005	mg/L		22-AUG-06	CLL	R433768
Nickel (Ni)	0.109		0.00006	mg/L		22-AUG-06	CLL	R433768
Lead (Pb)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Antimony (Sb)	0.00027		0.00003	mg/L		22-AUG-06	CLL	R433768
Selenium (Se)	0.0030		0.0001	mg/L		22-AUG-06	CLL	R433768
Strontium (Sr)	0.165		0.0001	mg/L		22-AUG-06	CLL	R433768
Uranium (U)	0.00219		0.00005	mg/L		22-AUG-06	CLL	R433768
Vanadium (V)	0.00206		0.00005	mg/L		22-AUG-06	CLL	R433768
Zinc (Zn)	0.376		0.0008	mg/L		22-AUG-06	CLL	R433768
Ammonia-N	0.016		0.005	mg/L		18-AUG-06	LDC	R431988
Total Organic Carbon	<1		1	mg/L		11-AUG-06	ZOW	R429438
Routine Water Analysis								
Chloride (Cl)	1		1	mg/L		11-AUG-06	WYA	R429576
ICP metals and SO4 for routine water								
Calcium (Ca)	39.4		0.5	mg/L		11-AUG-06	MLH	R429958
Potassium (K)	0.9		0.5	mg/L		11-AUG-06	MLH	R429958
Magnesium (Mg)	10.0		0.1	mg/L		11-AUG-06	MLH	R429958
Sodium (Na)	1		1	mg/L		11-AUG-06	MLH	R429958
Sulfate (SO4)	118		0.5	mg/L		11-AUG-06	MLH	R429958
Ion Balance Calculation								

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-2 STATION 2 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Routine Water Analysis								
Ion Balance Calculation								
Ion Balance	105			%		14-AUG-06		
TDS (Calculated)	178			mg/L		14-AUG-06		
Hardness (as CaCO3)	140			mg/L		14-AUG-06		
Nitrate+Nitrite-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrate-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrite-N	<0.05		0.05	mg/L		11-AUG-06	SHC	R429820
pH, Conductivity and Total Alkalinity								
pH	7.3		0.1	pH		10-AUG-06	PTT	R429312
Conductivity (EC)	275		0.2	uS/cm		10-AUG-06	PTT	R429312
Bicarbonate (HCO3)	14		5	mg/L		10-AUG-06	PTT	R429312
Carbonate (CO3)	<5		5	mg/L		10-AUG-06	PTT	R429312
Hydroxide (OH)	<5		5	mg/L		10-AUG-06	PTT	R429312
Alkalinity, Total (as CaCO3)	12		5	mg/L		10-AUG-06	PTT	R429312
L420382-3 STATION 3 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Total Metals								
Total Major Metals								
Calcium (Ca)	7.2		0.5	mg/L		19-AUG-06	DDN	R432283
Potassium (K)	0.6		0.1	mg/L		19-AUG-06	DDN	R432283
Magnesium (Mg)	3.2		0.1	mg/L		19-AUG-06	DDN	R432283
Sodium (Na)	<1		1	mg/L		19-AUG-06	DDN	R432283
Iron (Fe)	0.804		0.005	mg/L		19-AUG-06	DDN	R432283
Manganese (Mn)	0.032		0.001	mg/L		19-AUG-06	DDN	R432283
Total Trace Metals (Low Level)								
Silver (Ag)	<0.0004		0.0004	mg/L		18-AUG-06	MCHU	R432136
Aluminum (Al)	1.00		0.02	mg/L		18-AUG-06	MCHU	R432136
Arsenic (As)	0.0007		0.0004	mg/L		18-AUG-06	MCHU	R432136
Boron (B)	<0.02		0.02	mg/L		18-AUG-06	MCHU	R432136
Barium (Ba)	0.0240		0.0002	mg/L		18-AUG-06	MCHU	R432136
Beryllium (Be)	<0.001		0.001	mg/L		18-AUG-06	MCHU	R432136
Bismuth (Bi)	<0.0001		0.0001	mg/L		18-AUG-06	MCHU	R432136
Cadmium (Cd)	<0.0002		0.0002	mg/L		18-AUG-06	MCHU	R432136
Cobalt (Co)	0.0011		0.0002	mg/L		18-AUG-06	MCHU	R432136
Chromium (Cr)	0.0011		0.0008	mg/L		18-AUG-06	MCHU	R432136
Copper (Cu)	0.002		0.001	mg/L		18-AUG-06	MCHU	R432136
Molybdenum (Mo)	0.0003		0.0001	mg/L		18-AUG-06	MCHU	R432136
Nickel (Ni)	0.0038		0.0002	mg/L		18-AUG-06	MCHU	R432136
Lead (Pb)	0.0004		0.0001	mg/L		18-AUG-06	MCHU	R432136
Antimony (Sb)	<0.0004		0.0004	mg/L		18-AUG-06	MCHU	R432136
Selenium (Se)	0.0007		0.0004	mg/L		18-AUG-06	MCHU	R432136
Tin (Sn)	<0.0004		0.0004	mg/L		18-AUG-06	MCHU	R432136
Strontium (Sr)	0.0310		0.0002	mg/L		18-AUG-06	MCHU	R432136
Titanium (Ti)	0.079		0.005	mg/L		18-AUG-06	MCHU	R432136
Thallium (Tl)	<0.0001		0.0001	mg/L		18-AUG-06	MCHU	R432136
Uranium (U)	0.0003		0.0001	mg/L		18-AUG-06	MCHU	R432136
Vanadium (V)	0.0022		0.0002	mg/L		18-AUG-06	MCHU	R432136
Zinc (Zn)	0.007		0.004	mg/L		18-AUG-06	MCHU	R432136
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.022		0.005	mg/L		24-AUG-06	HAS	R434245

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-3 STATION 3 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Aluminum (Al)	0.0373		0.0003	mg/L		22-AUG-06	CLL	R433768
Arsenic (As)	0.00024		0.00003	mg/L		22-AUG-06	CLL	R433768
Boron (B)	0.002		0.001	mg/L		22-AUG-06	CLL	R433768
Barium (Ba)	0.0116		0.00005	mg/L		22-AUG-06	CLL	R433768
Beryllium (Be)	<0.0002		0.0002	mg/L		22-AUG-06	CLL	R433768
Calcium (Ca)	8.46		0.02	mg/L		22-AUG-06	CLL	R433768
Cadmium (Cd)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Cobalt (Co)	0.0007		0.0001	mg/L		22-AUG-06	CLL	R433768
Chromium (Cr)	0.00038		0.00006	mg/L		22-AUG-06	CLL	R433768
Copper (Cu)	0.0006		0.0006	mg/L		22-AUG-06	CLL	R433768
Mercury (Hg)	<0.00002		0.00002	mg/L		22-AUG-06	CLL	R433768
Potassium (K)	0.37		0.02	mg/L		22-AUG-06	CLL	R433768
Magnesium (Mg)	3.71		0.004	mg/L		22-AUG-06	CLL	R433768
Manganese (Mn)	0.0234		0.0001	mg/L		22-AUG-06	CLL	R433768
Molybdenum (Mo)	0.00030		0.00006	mg/L		22-AUG-06	CLL	R433768
Sodium (Na)	0.429		0.005	mg/L		22-AUG-06	CLL	R433768
Nickel (Ni)	0.00331		0.00006	mg/L		22-AUG-06	CLL	R433768
Lead (Pb)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Antimony (Sb)	0.00017		0.00003	mg/L		22-AUG-06	CLL	R433768
Selenium (Se)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Strontium (Sr)	0.0272		0.0001	mg/L		22-AUG-06	CLL	R433768
Uranium (U)	0.00020		0.00005	mg/L		22-AUG-06	CLL	R433768
Vanadium (V)	0.00084		0.00005	mg/L		22-AUG-06	CLL	R433768
Zinc (Zn)	0.0059		0.0008	mg/L		22-AUG-06	CLL	R433768
Ammonia-N	0.006		0.005	mg/L		18-AUG-06	LDC	R431988
Total Organic Carbon	1		1	mg/L		11-AUG-06	ZOW	R429438
Routine Water Analysis								
Chloride (Cl)	<1		1	mg/L		11-AUG-06	WYA	R429576
ICP metals and SO4 for routine water								
Calcium (Ca)	9.3		0.5	mg/L		11-AUG-06	MLH	R429958
Potassium (K)	0.5		0.5	mg/L		11-AUG-06	MLH	R429958
Magnesium (Mg)	4.2		0.1	mg/L		11-AUG-06	MLH	R429958
Sodium (Na)	<1		1	mg/L		11-AUG-06	MLH	R429958
Sulfate (SO4)	24.6		0.5	mg/L		11-AUG-06	MLH	R429958
Ion Balance Calculation								
Ion Balance	Low EC			%		14-AUG-06		
TDS (Calculated)	46			mg/L		14-AUG-06		
Hardness (as CaCO3)	41			mg/L		14-AUG-06		
Nitrate+Nitrite-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrate-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrite-N	<0.05		0.05	mg/L		11-AUG-06	SHC	R429820
pH, Conductivity and Total Alkalinity								
pH	7.5		0.1	pH		10-AUG-06	PTT	R429312
Conductivity (EC)	84.6		0.2	uS/cm		10-AUG-06	PTT	R429312
Bicarbonate (HCO3)	16		5	mg/L		10-AUG-06	PTT	R429312
Carbonate (CO3)	<5		5	mg/L		10-AUG-06	PTT	R429312
Hydroxide (OH)	<5		5	mg/L		10-AUG-06	PTT	R429312
Alkalinity, Total (as CaCO3)	13		5	mg/L		10-AUG-06	PTT	R429312

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-4 STATION 3 DUP MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Total Metals								
Total Major Metals								
Calcium (Ca)	7.4		0.5	mg/L		19-AUG-06	DDN	R432283
Potassium (K)	0.7		0.1	mg/L		19-AUG-06	DDN	R432283
Magnesium (Mg)	3.3		0.1	mg/L		19-AUG-06	DDN	R432283
Sodium (Na)	<1		1	mg/L		19-AUG-06	DDN	R432283
Iron (Fe)	0.863		0.005	mg/L		19-AUG-06	DDN	R432283
Manganese (Mn)	0.034		0.001	mg/L		19-AUG-06	DDN	R432283
Total Trace Metals (Low Level)								
Silver (Ag)	<0.0004		0.0004	mg/L		18-AUG-06	MCHU	R432136
Aluminum (Al)	1.09		0.02	mg/L		18-AUG-06	MCHU	R432136
Arsenic (As)	0.0008		0.0004	mg/L		18-AUG-06	MCHU	R432136
Boron (B)	<0.02		0.02	mg/L		18-AUG-06	MCHU	R432136
Barium (Ba)	0.0246		0.0002	mg/L		18-AUG-06	MCHU	R432136
Beryllium (Be)	<0.001		0.001	mg/L		18-AUG-06	MCHU	R432136
Bismuth (Bi)	<0.0001		0.0001	mg/L		18-AUG-06	MCHU	R432136
Cadmium (Cd)	<0.0002		0.0002	mg/L		18-AUG-06	MCHU	R432136
Cobalt (Co)	0.0012		0.0002	mg/L		18-AUG-06	MCHU	R432136
Chromium (Cr)	0.0013		0.0008	mg/L		18-AUG-06	MCHU	R432136
Copper (Cu)	0.001		0.001	mg/L		18-AUG-06	MCHU	R432136
Molybdenum (Mo)	0.0003		0.0001	mg/L		18-AUG-06	MCHU	R432136
Nickel (Ni)	0.0039		0.0002	mg/L		18-AUG-06	MCHU	R432136
Lead (Pb)	0.0005		0.0001	mg/L		18-AUG-06	MCHU	R432136
Antimony (Sb)	<0.0004		0.0004	mg/L		18-AUG-06	MCHU	R432136
Selenium (Se)	0.0006		0.0004	mg/L		18-AUG-06	MCHU	R432136
Tin (Sn)	<0.0004		0.0004	mg/L		18-AUG-06	MCHU	R432136
Strontium (Sr)	0.0305		0.0002	mg/L		18-AUG-06	MCHU	R432136
Titanium (Ti)	0.085		0.005	mg/L		18-AUG-06	MCHU	R432136
Thallium (Tl)	<0.0001		0.0001	mg/L		18-AUG-06	MCHU	R432136
Uranium (U)	0.0004		0.0001	mg/L		18-AUG-06	MCHU	R432136
Vanadium (V)	0.0024		0.0002	mg/L		18-AUG-06	MCHU	R432136
Zinc (Zn)	0.007		0.004	mg/L		18-AUG-06	MCHU	R432136
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.022		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Aluminum (Al)	0.0370		0.0003	mg/L		22-AUG-06	CLL	R433768
Arsenic (As)	0.00027		0.00003	mg/L		22-AUG-06	CLL	R433768
Boron (B)	0.002		0.001	mg/L		22-AUG-06	CLL	R433768
Barium (Ba)	0.0115		0.00005	mg/L		22-AUG-06	CLL	R433768
Beryllium (Be)	<0.0002		0.0002	mg/L		22-AUG-06	CLL	R433768
Calcium (Ca)	8.51		0.02	mg/L		22-AUG-06	CLL	R433768
Cadmium (Cd)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Cobalt (Co)	0.0007		0.0001	mg/L		22-AUG-06	CLL	R433768
Chromium (Cr)	<0.00006		0.00006	mg/L		22-AUG-06	CLL	R433768
Copper (Cu)	0.0007		0.0006	mg/L		22-AUG-06	CLL	R433768
Mercury (Hg)	<0.00002		0.00002	mg/L		22-AUG-06	CLL	R433768
Potassium (K)	0.37		0.02	mg/L		22-AUG-06	CLL	R433768
Magnesium (Mg)	3.72		0.004	mg/L		22-AUG-06	CLL	R433768
Manganese (Mn)	0.0230		0.0001	mg/L		22-AUG-06	CLL	R433768
Molybdenum (Mo)	0.00029		0.00006	mg/L		22-AUG-06	CLL	R433768
Sodium (Na)	0.426		0.005	mg/L		22-AUG-06	CLL	R433768
Nickel (Ni)	0.00320		0.00006	mg/L		22-AUG-06	CLL	R433768

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-4 STATION 3 DUP MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals - Dissolved								
Lead (Pb)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Antimony (Sb)	0.00015		0.00003	mg/L		22-AUG-06	CLL	R433768
Selenium (Se)	0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Strontium (Sr)	0.0272		0.0001	mg/L		22-AUG-06	CLL	R433768
Uranium (U)	0.00019		0.00005	mg/L		22-AUG-06	CLL	R433768
Vanadium (V)	0.00082		0.00005	mg/L		22-AUG-06	CLL	R433768
Zinc (Zn)	0.0056		0.0008	mg/L		22-AUG-06	CLL	R433768
Ammonia-N	0.006		0.005	mg/L		18-AUG-06	LDC	R431988
Total Organic Carbon	1		1	mg/L		11-AUG-06	ZOW	R429438
Routine Water Analysis								
Chloride (Cl)	<1		1	mg/L		11-AUG-06	WYA	R429576
ICP metals and SO4 for routine water								
Calcium (Ca)	9.3		0.5	mg/L		11-AUG-06	MLH	R429958
Potassium (K)	<0.5		0.5	mg/L		11-AUG-06	MLH	R429958
Magnesium (Mg)	4.0		0.1	mg/L		11-AUG-06	MLH	R429958
Sodium (Na)	<1		1	mg/L		11-AUG-06	MLH	R429958
Sulfate (SO4)	24.4		0.5	mg/L		11-AUG-06	MLH	R429958
Ion Balance Calculation								
Ion Balance	Low EC			%		14-AUG-06		
TDS (Calculated)	46			mg/L		14-AUG-06		
Hardness (as CaCO3)	40			mg/L		14-AUG-06		
Nitrate+Nitrite-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrate-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrite-N	<0.05		0.05	mg/L		11-AUG-06	SHC	R429820
pH, Conductivity and Total Alkalinity								
pH	7.5		0.1	pH		10-AUG-06	PTT	R429312
Conductivity (EC)	84.6		0.2	uS/cm		10-AUG-06	PTT	R429312
Bicarbonate (HCO3)	16		5	mg/L		10-AUG-06	PTT	R429312
Carbonate (CO3)	<5		5	mg/L		10-AUG-06	PTT	R429312
Hydroxide (OH)	<5		5	mg/L		10-AUG-06	PTT	R429312
Alkalinity, Total (as CaCO3)	13		5	mg/L		10-AUG-06	PTT	R429312
L420382-5 STATION 4 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Total Metals								
Total Major Metals								
Calcium (Ca)	12.5		0.5	mg/L		19-AUG-06	DDN	R432283
Potassium (K)	0.6		0.1	mg/L		19-AUG-06	DDN	R432283
Magnesium (Mg)	4.3		0.1	mg/L		19-AUG-06	DDN	R432283
Sodium (Na)	<1		1	mg/L		19-AUG-06	DDN	R432283
Iron (Fe)	0.788		0.005	mg/L		19-AUG-06	DDN	R432283
Manganese (Mn)	0.045		0.001	mg/L		19-AUG-06	DDN	R432283
Total Trace Metals (Low Level)								
Silver (Ag)	<0.0004		0.0004	mg/L		18-AUG-06	MCHU	R432136
Aluminum (Al)	1.46		0.02	mg/L		18-AUG-06	MCHU	R432136
Arsenic (As)	0.0007		0.0004	mg/L		18-AUG-06	MCHU	R432136
Boron (B)	<0.02		0.02	mg/L		18-AUG-06	MCHU	R432136
Barium (Ba)	0.0301		0.0002	mg/L		18-AUG-06	MCHU	R432136
Beryllium (Be)	<0.001		0.001	mg/L		18-AUG-06	MCHU	R432136

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-5 STATION 4 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Total Metals								
Total Trace Metals (Low Level)								
Bismuth (Bi)	<0.0001		0.0001	mg/L		18-AUG-06	MCHU	R432136
Cadmium (Cd)	0.0012		0.0002	mg/L		18-AUG-06	MCHU	R432136
Cobalt (Co)	0.0030		0.0002	mg/L		18-AUG-06	MCHU	R432136
Chromium (Cr)	0.0008		0.0008	mg/L		18-AUG-06	MCHU	R432136
Copper (Cu)	0.008		0.001	mg/L		18-AUG-06	MCHU	R432136
Molybdenum (Mo)	0.0006		0.0001	mg/L		18-AUG-06	MCHU	R432136
Nickel (Ni)	0.0245		0.0002	mg/L		18-AUG-06	MCHU	R432136
Lead (Pb)	0.0003		0.0001	mg/L		18-AUG-06	MCHU	R432136
Antimony (Sb)	<0.0004		0.0004	mg/L		18-AUG-06	MCHU	R432136
Selenium (Se)	0.0010		0.0004	mg/L		18-AUG-06	MCHU	R432136
Tin (Sn)	<0.0004		0.0004	mg/L		18-AUG-06	MCHU	R432136
Strontium (Sr)	0.0610		0.0002	mg/L		18-AUG-06	MCHU	R432136
Titanium (Ti)	0.064		0.005	mg/L		18-AUG-06	MCHU	R432136
Thallium (Tl)	<0.0001		0.0001	mg/L		18-AUG-06	MCHU	R432136
Uranium (U)	0.0006		0.0001	mg/L		18-AUG-06	MCHU	R432136
Vanadium (V)	0.0019		0.0002	mg/L		18-AUG-06	MCHU	R432136
Zinc (Zn)	0.063		0.004	mg/L		18-AUG-06	MCHU	R432136
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.030		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Aluminum (Al)	0.0392		0.0003	mg/L		22-AUG-06	CLL	R433768
Arsenic (As)	0.00021		0.00003	mg/L		22-AUG-06	CLL	R433768
Boron (B)	0.003		0.001	mg/L		22-AUG-06	CLL	R433768
Barium (Ba)	0.0205		0.00005	mg/L		22-AUG-06	CLL	R433768
Beryllium (Be)	<0.0002		0.0002	mg/L		22-AUG-06	CLL	R433768
Calcium (Ca)	15.5		0.02	mg/L		22-AUG-06	CLL	R433768
Cadmium (Cd)	0.00118		0.00005	mg/L		22-AUG-06	CLL	R433768
Cobalt (Co)	0.0026		0.0001	mg/L		22-AUG-06	CLL	R433768
Chromium (Cr)	0.00073		0.00006	mg/L		22-AUG-06	CLL	R433768
Copper (Cu)	0.0018		0.0006	mg/L		22-AUG-06	CLL	R433768
Mercury (Hg)	<0.00002		0.00002	mg/L		22-AUG-06	CLL	R433768
Potassium (K)	0.43		0.02	mg/L		22-AUG-06	CLL	R433768
Magnesium (Mg)	5.21		0.004	mg/L		22-AUG-06	CLL	R433768
Manganese (Mn)	0.0440		0.0001	mg/L		22-AUG-06	CLL	R433768
Molybdenum (Mo)	0.00056		0.00006	mg/L		22-AUG-06	CLL	R433768
Sodium (Na)	0.539		0.005	mg/L		22-AUG-06	CLL	R433768
Nickel (Ni)	0.0230		0.00006	mg/L		22-AUG-06	CLL	R433768
Lead (Pb)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Antimony (Sb)	0.00029		0.00003	mg/L		22-AUG-06	CLL	R433768
Selenium (Se)	0.0008		0.0001	mg/L		22-AUG-06	CLL	R433768
Strontium (Sr)	0.0551		0.0001	mg/L		22-AUG-06	CLL	R433768
Uranium (U)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Vanadium (V)	0.00075		0.00005	mg/L		22-AUG-06	CLL	R433768
Zinc (Zn)	0.0647		0.0008	mg/L		22-AUG-06	CLL	R433768
Ammonia-N	0.007		0.005	mg/L		18-AUG-06	LDC	R431988
Total Organic Carbon	1		1	mg/L		11-AUG-06	ZOW	R429438
Routine Water Analysis								
Chloride (Cl)	<1		1	mg/L		11-AUG-06	WYA	R429576

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-5 STATION 4 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Routine Water Analysis								
ICP metals and SO4 for routine water								
Calcium (Ca)	16.4		0.5	mg/L		11-AUG-06	MLH	R429958
Potassium (K)	0.7		0.5	mg/L		11-AUG-06	MLH	R429958
Magnesium (Mg)	5.8		0.1	mg/L		11-AUG-06	MLH	R429958
Sodium (Na)	<1		1	mg/L		11-AUG-06	MLH	R429958
Sulfate (SO4)	45.4		0.5	mg/L		11-AUG-06	MLH	R429958
Ion Balance Calculation								
Ion Balance	106			%		14-AUG-06		
TDS (Calculated)	77			mg/L		14-AUG-06		
Hardness (as CaCO3)	65			mg/L		14-AUG-06		
Nitrate+Nitrite-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrate-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrite-N	<0.05		0.05	mg/L		11-AUG-06	SHC	R429820
pH, Conductivity and Total Alkalinity								
pH	7.5		0.1	pH		11-AUG-06	PTT	R429312
Conductivity (EC)	134		0.2	uS/cm		11-AUG-06	PTT	R429312
Bicarbonate (HCO3)	18		5	mg/L		11-AUG-06	PTT	R429312
Carbonate (CO3)	<5		5	mg/L		11-AUG-06	PTT	R429312
Hydroxide (OH)	<5		5	mg/L		11-AUG-06	PTT	R429312
Alkalinity, Total (as CaCO3)	15		5	mg/L		11-AUG-06	PTT	R429312
L420382-6 STATION 5 MACTUNG								
Sampled By: SM/KL on 05-AUG-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.036		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Aluminum (Al)	0.0202		0.0003	mg/L		22-AUG-06	CLL	R433768
Arsenic (As)	0.00101		0.00003	mg/L		22-AUG-06	CLL	R433768
Boron (B)	<0.001		0.001	mg/L		22-AUG-06	CLL	R433768
Barium (Ba)	0.0427		0.00005	mg/L		22-AUG-06	CLL	R433768
Beryllium (Be)	<0.0002		0.0002	mg/L		22-AUG-06	CLL	R433768
Calcium (Ca)	25.1		0.02	mg/L		22-AUG-06	CLL	R433768
Cadmium (Cd)	0.00038		0.00005	mg/L		22-AUG-06	CLL	R433768
Cobalt (Co)	0.0005		0.0001	mg/L		22-AUG-06	CLL	R433768
Chromium (Cr)	0.00042		0.00006	mg/L		22-AUG-06	CLL	R433768
Copper (Cu)	0.0007		0.0006	mg/L		22-AUG-06	CLL	R433768
Mercury (Hg)	<0.00002		0.00002	mg/L		22-AUG-06	CLL	R433768
Potassium (K)	0.58		0.02	mg/L		22-AUG-06	CLL	R433768
Magnesium (Mg)	3.65		0.004	mg/L		22-AUG-06	CLL	R433768
Manganese (Mn)	0.0136		0.0001	mg/L		22-AUG-06	CLL	R433768
Molybdenum (Mo)	0.00191		0.00006	mg/L		22-AUG-06	CLL	R433768
Sodium (Na)	0.423		0.005	mg/L		22-AUG-06	CLL	R433768
Nickel (Ni)	0.00796		0.00006	mg/L		22-AUG-06	CLL	R433768
Lead (Pb)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Antimony (Sb)	0.00044		0.00003	mg/L		22-AUG-06	CLL	R433768
Selenium (Se)	0.0014		0.0001	mg/L		22-AUG-06	CLL	R433768
Strontium (Sr)	0.0922		0.0001	mg/L		22-AUG-06	CLL	R433768
Uranium (U)	0.00129		0.00005	mg/L		22-AUG-06	CLL	R433768
Vanadium (V)	0.00070		0.00005	mg/L		22-AUG-06	CLL	R433768
Zinc (Zn)	0.0219		0.0008	mg/L		22-AUG-06	CLL	R433768

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-6 STATION 5 MACTUNG								
Sampled By: SM/KL on 05-AUG-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals								
Iron (Fe)	0.100		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Aluminum (Al)	0.0544		0.0003	mg/L		22-AUG-06	CLL	R433768
Arsenic (As)	0.00172		0.00003	mg/L		22-AUG-06	CLL	R433768
Boron (B)	0.001		0.001	mg/L		22-AUG-06	CLL	R433768
Barium (Ba)	0.0428		0.00005	mg/L		22-AUG-06	CLL	R433768
Beryllium (Be)	<0.0002		0.0002	mg/L		22-AUG-06	CLL	R433768
Calcium (Ca)	25.2		0.02	mg/L		22-AUG-06	CLL	R433768
Cadmium (Cd)	0.00051		0.00005	mg/L		22-AUG-06	CLL	R433768
Cobalt (Co)	0.0006		0.0001	mg/L		22-AUG-06	CLL	R433768
Chromium (Cr)	0.00235		0.00006	mg/L		22-AUG-06	CLL	R433768
Copper (Cu)	0.0012		0.0006	mg/L		22-AUG-06	CLL	R433768
Mercury (Hg)	<0.00002		0.00002	mg/L		22-AUG-06	CLL	R433768
Potassium (K)	0.61		0.02	mg/L		22-AUG-06	CLL	R433768
Magnesium (Mg)	3.79		0.004	mg/L		22-AUG-06	CLL	R433768
Manganese (Mn)	0.0146		0.0001	mg/L		22-AUG-06	CLL	R433768
Molybdenum (Mo)	0.00194		0.00006	mg/L		22-AUG-06	CLL	R433768
Sodium (Na)	0.424		0.005	mg/L		22-AUG-06	CLL	R433768
Nickel (Ni)	0.00814		0.00006	mg/L		22-AUG-06	CLL	R433768
Lead (Pb)	0.00065		0.00005	mg/L		22-AUG-06	CLL	R433768
Antimony (Sb)	0.00039		0.00003	mg/L		22-AUG-06	CLL	R433768
Selenium (Se)	0.0013		0.0001	mg/L		22-AUG-06	CLL	R433768
Strontium (Sr)	0.0940		0.0001	mg/L		22-AUG-06	CLL	R433768
Uranium (U)	0.00140		0.00005	mg/L		22-AUG-06	CLL	R433768
Vanadium (V)	0.00101		0.00005	mg/L		22-AUG-06	CLL	R433768
Zinc (Zn)	0.0224		0.0008	mg/L		22-AUG-06	CLL	R433768
Ammonia-N	0.007		0.005	mg/L		18-AUG-06	LDC	R431988
Total Organic Carbon	1		1	mg/L		11-AUG-06	ZOW	R429438
Routine Water Analysis								
Chloride (Cl)	<1		1	mg/L		11-AUG-06	WYA	R429576
ICP metals and SO4 for routine water								
Calcium (Ca)	27.1		0.5	mg/L		11-AUG-06	MLH	R429958
Potassium (K)	0.7		0.5	mg/L		11-AUG-06	MLH	R429958
Magnesium (Mg)	4.0		0.1	mg/L		11-AUG-06	MLH	R429958
Sodium (Na)	<1		1	mg/L		11-AUG-06	MLH	R429958
Sulfate (SO4)	44.9		0.5	mg/L		11-AUG-06	MLH	R429958
Ion Balance Calculation								
Ion Balance	102			%		14-AUG-06		
TDS (Calculated)	99			mg/L		14-AUG-06		
Hardness (as CaCO3)	84			mg/L		14-AUG-06		
Nitrate+Nitrite-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrate-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrite-N	<0.05		0.05	mg/L		11-AUG-06	SHC	R429820
pH, Conductivity and Total Alkalinity								
pH	7.9		0.1	pH		11-AUG-06	PTT	R429312
Conductivity (EC)	169		0.2	uS/cm		11-AUG-06	PTT	R429312
Bicarbonate (HCO3)	45		5	mg/L		11-AUG-06	PTT	R429312
Carbonate (CO3)	<5		5	mg/L		11-AUG-06	PTT	R429312

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-6 STATION 5 MACTUNG								
Sampled By: SM/KL on 05-AUG-06								
Matrix: WATER								
Routine Water Analysis								
pH, Conductivity and Total Alkalinity								
Hydroxide (OH)	<5		5	mg/L		11-AUG-06	PTT	R429312
Alkalinity, Total (as CaCO3)	37		5	mg/L		11-AUG-06	PTT	R429312
L420382-7 STATION 6 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.012		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		25-AUG-06	CLL	R434986
Aluminum (Al)	0.0285		0.0003	mg/L		25-AUG-06	CLL	R434986
Arsenic (As)	0.00106		0.00003	mg/L		25-AUG-06	CLL	R434986
Boron (B)	<0.001		0.001	mg/L		25-AUG-06	CLL	R434986
Barium (Ba)	0.0425		0.00005	mg/L		25-AUG-06	CLL	R434986
Beryllium (Be)	<0.0002		0.0002	mg/L		25-AUG-06	CLL	R434986
Calcium (Ca)	22.1		0.02	mg/L		25-AUG-06	CLL	R434986
Cadmium (Cd)	0.00024		0.00005	mg/L		25-AUG-06	CLL	R434986
Cobalt (Co)	0.0017		0.0001	mg/L		25-AUG-06	CLL	R434986
Chromium (Cr)	0.00024		0.00006	mg/L		25-AUG-06	CLL	R434986
Copper (Cu)	0.0008		0.0006	mg/L		25-AUG-06	CLL	R434986
Mercury (Hg)	<0.00002		0.00002	mg/L		25-AUG-06	CLL	R434986
Potassium (K)	0.57		0.02	mg/L		25-AUG-06	CLL	R434986
Magnesium (Mg)	2.90		0.004	mg/L		25-AUG-06	CLL	R434986
Manganese (Mn)	0.0253		0.0001	mg/L		25-AUG-06	CLL	R434986
Molybdenum (Mo)	0.00143		0.00006	mg/L		25-AUG-06	CLL	R434986
Sodium (Na)	0.369		0.005	mg/L		25-AUG-06	CLL	R434986
Nickel (Ni)	0.00699		0.00006	mg/L		25-AUG-06	CLL	R434986
Lead (Pb)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Antimony (Sb)	0.00033		0.00003	mg/L		25-AUG-06	CLL	R434986
Selenium (Se)	0.0010		0.0001	mg/L		25-AUG-06	CLL	R434986
Strontium (Sr)	0.0641		0.0001	mg/L		25-AUG-06	CLL	R434986
Uranium (U)	0.00074		0.00005	mg/L		25-AUG-06	CLL	R434986
Vanadium (V)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Zinc (Zn)	0.0156		0.0008	mg/L		25-AUG-06	CLL	R434986
Ultra-Low Metals								
Iron (Fe)	0.074		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		25-AUG-06	CLL	R434986
Aluminum (Al)	0.0810		0.0003	mg/L		25-AUG-06	CLL	R434986
Arsenic (As)	0.00137		0.00003	mg/L		25-AUG-06	CLL	R434986
Boron (B)	<0.001		0.001	mg/L		25-AUG-06	CLL	R434986
Barium (Ba)	0.0450		0.00005	mg/L		25-AUG-06	CLL	R434986
Beryllium (Be)	<0.0002		0.0002	mg/L		25-AUG-06	CLL	R434986
Calcium (Ca)	22.0		0.02	mg/L		25-AUG-06	CLL	R434986
Cadmium (Cd)	0.00029		0.00005	mg/L		25-AUG-06	CLL	R434986
Cobalt (Co)	0.0018		0.0001	mg/L		25-AUG-06	CLL	R434986
Chromium (Cr)	0.00025		0.00006	mg/L		25-AUG-06	CLL	R434986
Copper (Cu)	0.0011		0.0006	mg/L		25-AUG-06	CLL	R434986
Mercury (Hg)	<0.00002		0.00002	mg/L		25-AUG-06	CLL	R434986
Potassium (K)	0.59		0.02	mg/L		25-AUG-06	CLL	R434986
Magnesium (Mg)	2.94		0.004	mg/L		25-AUG-06	CLL	R434986

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-7 STATION 6 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Ultra-Low Metals								
Ultra-Low Metals								
Manganese (Mn)	0.0271		0.0001	mg/L		25-AUG-06	CLL	R434986
Molybdenum (Mo)	0.00144		0.00006	mg/L		25-AUG-06	CLL	R434986
Sodium (Na)	0.359		0.005	mg/L		25-AUG-06	CLL	R434986
Nickel (Ni)	0.00732		0.00006	mg/L		25-AUG-06	CLL	R434986
Lead (Pb)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Antimony (Sb)	0.00036		0.00003	mg/L		25-AUG-06	CLL	R434986
Selenium (Se)	0.0010		0.0001	mg/L		25-AUG-06	CLL	R434986
Strontium (Sr)	0.0653		0.0001	mg/L		25-AUG-06	CLL	R434986
Uranium (U)	0.00083		0.00005	mg/L		25-AUG-06	CLL	R434986
Vanadium (V)	0.00018		0.00005	mg/L		25-AUG-06	CLL	R434986
Zinc (Zn)	0.0154		0.0008	mg/L		25-AUG-06	CLL	R434986
Ammonia-N	0.007		0.005	mg/L		18-AUG-06	LDC	R431988
Total Organic Carbon	1		1	mg/L		11-AUG-06	ZOW	R429438
Routine Water Analysis								
Chloride (Cl)	<1		1	mg/L		11-AUG-06	WYA	R429576
ICP metals and SO4 for routine water								
Calcium (Ca)	26.1		0.5	mg/L		11-AUG-06	MLH	R429958
Potassium (K)	0.8		0.5	mg/L		11-AUG-06	MLH	R429958
Magnesium (Mg)	3.8		0.1	mg/L		11-AUG-06	MLH	R429958
Sodium (Na)	<1		1	mg/L		11-AUG-06	MLH	R429958
Sulfate (SO4)	39.1		0.5	mg/L		11-AUG-06	MLH	R429958
Ion Balance Calculation								
Ion Balance	103			%		14-AUG-06		
TDS (Calculated)	93			mg/L		14-AUG-06		
Hardness (as CaCO3)	81			mg/L		14-AUG-06		
Nitrate+Nitrite-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrate-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrite-N	<0.05		0.05	mg/L		11-AUG-06	SHC	R429820
pH, Conductivity and Total Alkalinity								
pH	7.9		0.1	pH		11-AUG-06	PTT	R429312
Conductivity (EC)	160		0.2	uS/cm		11-AUG-06	PTT	R429312
Bicarbonate (HCO3)	47		5	mg/L		11-AUG-06	PTT	R429312
Carbonate (CO3)	<5		5	mg/L		11-AUG-06	PTT	R429312
Hydroxide (OH)	<5		5	mg/L		11-AUG-06	PTT	R429312
Alkalinity, Total (as CaCO3)	39		5	mg/L		11-AUG-06	PTT	R429312
L420382-8 STATION 7 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.175		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		25-AUG-06	CLL	R434986
Aluminum (Al)	0.0192		0.0003	mg/L		25-AUG-06	CLL	R434986
Arsenic (As)	0.00019		0.00003	mg/L		25-AUG-06	CLL	R434986
Boron (B)	<0.001		0.001	mg/L		25-AUG-06	CLL	R434986
Barium (Ba)	0.0397		0.00005	mg/L		25-AUG-06	CLL	R434986
Beryllium (Be)	<0.0002		0.0002	mg/L		25-AUG-06	CLL	R434986
Calcium (Ca)	16.8		0.02	mg/L		25-AUG-06	CLL	R434986
Cadmium (Cd)	0.00431		0.00005	mg/L		25-AUG-06	CLL	R434986

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-8 STATION 7 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals - Dissolved								
Cobalt (Co)	0.0117		0.0001	mg/L		25-AUG-06	CLL	R434986
Chromium (Cr)	<0.00006		0.00006	mg/L		25-AUG-06	CLL	R434986
Copper (Cu)	0.0205		0.0006	mg/L		25-AUG-06	CLL	R434986
Mercury (Hg)	<0.00002		0.00002	mg/L		25-AUG-06	CLL	R434986
Potassium (K)	0.41		0.02	mg/L		25-AUG-06	CLL	R434986
Magnesium (Mg)	3.84		0.004	mg/L		25-AUG-06	CLL	R434986
Manganese (Mn)	0.132		0.0001	mg/L		25-AUG-06	CLL	R434986
Molybdenum (Mo)	0.00033		0.00006	mg/L		25-AUG-06	CLL	R434986
Sodium (Na)	0.317		0.005	mg/L		25-AUG-06	CLL	R434986
Nickel (Ni)	0.0907		0.00006	mg/L		25-AUG-06	CLL	R434986
Lead (Pb)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Antimony (Sb)	0.00024		0.00003	mg/L		25-AUG-06	CLL	R434986
Selenium (Se)	0.0008		0.0001	mg/L		25-AUG-06	CLL	R434986
Strontium (Sr)	0.0505		0.0001	mg/L		25-AUG-06	CLL	R434986
Uranium (U)	0.00008		0.00005	mg/L		25-AUG-06	CLL	R434986
Vanadium (V)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Zinc (Zn)	0.327		0.0008	mg/L		25-AUG-06	CLL	R434986
Ultra-Low Metals								
Iron (Fe)	1.00		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		25-AUG-06	CLL	R434986
Aluminum (Al)	2.04		0.0003	mg/L		25-AUG-06	CLL	R434986
Arsenic (As)	0.00068		0.00003	mg/L		25-AUG-06	CLL	R434986
Boron (B)	<0.001		0.001	mg/L		25-AUG-06	CLL	R434986
Barium (Ba)	0.0410		0.00005	mg/L		25-AUG-06	CLL	R434986
Beryllium (Be)	0.0003		0.0002	mg/L		25-AUG-06	CLL	R434986
Calcium (Ca)	16.8		0.02	mg/L		25-AUG-06	CLL	R434986
Cadmium (Cd)	0.00432		0.00005	mg/L		25-AUG-06	CLL	R434986
Cobalt (Co)	0.0119		0.0001	mg/L		25-AUG-06	CLL	R434986
Chromium (Cr)	0.00040		0.00006	mg/L		25-AUG-06	CLL	R434986
Copper (Cu)	0.0459		0.0006	mg/L		25-AUG-06	CLL	R434986
Mercury (Hg)	<0.00002		0.00002	mg/L		25-AUG-06	CLL	R434986
Potassium (K)	0.43		0.02	mg/L		25-AUG-06	CLL	R434986
Magnesium (Mg)	3.81		0.004	mg/L		25-AUG-06	CLL	R434986
Manganese (Mn)	0.137		0.0001	mg/L		25-AUG-06	CLL	R434986
Molybdenum (Mo)	0.00058		0.00006	mg/L		25-AUG-06	CLL	R434986
Sodium (Na)	0.305		0.005	mg/L		25-AUG-06	CLL	R434986
Nickel (Ni)	0.0923		0.00006	mg/L		25-AUG-06	CLL	R434986
Lead (Pb)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Antimony (Sb)	0.00026		0.00003	mg/L		25-AUG-06	CLL	R434986
Selenium (Se)	0.0009		0.0001	mg/L		25-AUG-06	CLL	R434986
Strontium (Sr)	0.0501		0.0001	mg/L		25-AUG-06	CLL	R434986
Uranium (U)	0.00104		0.00005	mg/L		25-AUG-06	CLL	R434986
Vanadium (V)	0.00166		0.00005	mg/L		25-AUG-06	CLL	R434986
Zinc (Zn)	0.335		0.0008	mg/L		25-AUG-06	CLL	R434986
Ammonia-N	0.013		0.005	mg/L		18-AUG-06	LDC	R431988
Total Organic Carbon	<1		1	mg/L		11-AUG-06	ZOW	R429438
Routine Water Analysis								
Chloride (Cl)	<1		1	mg/L		11-AUG-06	WYA	R429576

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-8 STATION 7 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Routine Water Analysis								
ICP metals and SO4 for routine water								
Calcium (Ca)	21.1		0.5	mg/L		11-AUG-06	MLH	R429958
Potassium (K)	<0.5		0.5	mg/L		11-AUG-06	MLH	R429958
Magnesium (Mg)	5.1		0.1	mg/L		11-AUG-06	MLH	R429958
Sodium (Na)	<1		1	mg/L		11-AUG-06	MLH	R429958
Sulfate (SO4)	64.0		0.5	mg/L		11-AUG-06	MLH	R429958
Ion Balance Calculation								
Ion Balance	111	BL:INT		%		14-AUG-06		
TDS (Calculated)	90			mg/L		14-AUG-06		
Hardness (as CaCO3)	74			mg/L		14-AUG-06		
Nitrate+Nitrite-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrate-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrite-N	<0.05		0.05	mg/L		11-AUG-06	SHC	R429820
pH, Conductivity and Total Alkalinity								
pH	6.8		0.1	pH		11-AUG-06	PTT	R429312
Conductivity (EC)	159		0.2	uS/cm		11-AUG-06	PTT	R429312
Bicarbonate (HCO3)	<5		5	mg/L		11-AUG-06	PTT	R429312
Carbonate (CO3)	<5		5	mg/L		11-AUG-06	PTT	R429312
Hydroxide (OH)	<5		5	mg/L		11-AUG-06	PTT	R429312
Alkalinity, Total (as CaCO3)	<5		5	mg/L		11-AUG-06	PTT	R429312
L420382-9 STATION 8 MACTUNG								
Sampled By: SM/KL on 05-AUG-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	<0.005		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		25-AUG-06	CLL	R434986
Aluminum (Al)	0.0297		0.0003	mg/L		25-AUG-06	CLL	R434986
Arsenic (As)	0.00257		0.00003	mg/L		25-AUG-06	CLL	R434986
Boron (B)	<0.001		0.001	mg/L		25-AUG-06	CLL	R434986
Barium (Ba)	0.00847		0.00005	mg/L		25-AUG-06	CLL	R434986
Beryllium (Be)	<0.0002		0.0002	mg/L		25-AUG-06	CLL	R434986
Calcium (Ca)	8.20		0.02	mg/L		25-AUG-06	CLL	R434986
Cadmium (Cd)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Cobalt (Co)	0.0005		0.0001	mg/L		25-AUG-06	CLL	R434986
Chromium (Cr)	<0.00006		0.00006	mg/L		25-AUG-06	CLL	R434986
Copper (Cu)	0.0008		0.0006	mg/L		25-AUG-06	CLL	R434986
Mercury (Hg)	<0.00002		0.00002	mg/L		25-AUG-06	CLL	R434986
Potassium (K)	0.12		0.02	mg/L		25-AUG-06	CLL	R434986
Magnesium (Mg)	0.545		0.004	mg/L		25-AUG-06	CLL	R434986
Manganese (Mn)	0.0304		0.0001	mg/L		25-AUG-06	CLL	R434986
Molybdenum (Mo)	0.00120		0.00006	mg/L		25-AUG-06	CLL	R434986
Sodium (Na)	0.224		0.005	mg/L		25-AUG-06	CLL	R434986
Nickel (Ni)	0.00284		0.00006	mg/L		25-AUG-06	CLL	R434986
Lead (Pb)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Antimony (Sb)	0.00042		0.00003	mg/L		25-AUG-06	CLL	R434986
Selenium (Se)	0.0002		0.0001	mg/L		25-AUG-06	CLL	R434986
Strontium (Sr)	0.0160		0.0001	mg/L		25-AUG-06	CLL	R434986
Uranium (U)	0.00026		0.00005	mg/L		25-AUG-06	CLL	R434986
Vanadium (V)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Zinc (Zn)	0.0039		0.0008	mg/L		25-AUG-06	CLL	R434986

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-9 STATION 8 MACTUNG								
Sampled By: SM/KL on 05-AUG-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals								
Iron (Fe)	0.011		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		25-AUG-06	CLL	R434986
Aluminum (Al)	0.0504		0.0003	mg/L		25-AUG-06	CLL	R434986
Arsenic (As)	0.00308		0.00003	mg/L		25-AUG-06	CLL	R434986
Boron (B)	<0.001		0.001	mg/L		25-AUG-06	CLL	R434986
Barium (Ba)	0.00819		0.00005	mg/L		25-AUG-06	CLL	R434986
Beryllium (Be)	<0.0002		0.0002	mg/L		25-AUG-06	CLL	R434986
Calcium (Ca)	8.10		0.02	mg/L		25-AUG-06	CLL	R434986
Cadmium (Cd)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Cobalt (Co)	0.0005		0.0001	mg/L		25-AUG-06	CLL	R434986
Chromium (Cr)	<0.00006		0.00006	mg/L		25-AUG-06	CLL	R434986
Copper (Cu)	0.0010		0.0006	mg/L		25-AUG-06	CLL	R434986
Mercury (Hg)	<0.00002		0.00002	mg/L		25-AUG-06	CLL	R434986
Potassium (K)	0.13		0.02	mg/L		25-AUG-06	CLL	R434986
Magnesium (Mg)	0.536		0.004	mg/L		25-AUG-06	CLL	R434986
Manganese (Mn)	0.0324		0.0001	mg/L		25-AUG-06	CLL	R434986
Molybdenum (Mo)	0.00116		0.00006	mg/L		25-AUG-06	CLL	R434986
Sodium (Na)	0.217		0.005	mg/L		25-AUG-06	CLL	R434986
Nickel (Ni)	0.00262		0.00006	mg/L		25-AUG-06	CLL	R434986
Lead (Pb)	0.00007		0.00005	mg/L		25-AUG-06	CLL	R434986
Antimony (Sb)	0.00038		0.00003	mg/L		25-AUG-06	CLL	R434986
Selenium (Se)	0.0002		0.0001	mg/L		25-AUG-06	CLL	R434986
Strontium (Sr)	0.0157		0.0001	mg/L		25-AUG-06	CLL	R434986
Uranium (U)	0.00033		0.00005	mg/L		25-AUG-06	CLL	R434986
Vanadium (V)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Zinc (Zn)	0.0028		0.0008	mg/L		25-AUG-06	CLL	R434986
Ammonia-N	<0.005		0.005	mg/L		18-AUG-06	LDC	R431988
Total Organic Carbon	<1		1	mg/L		11-AUG-06	ZOW	R429438
Routine Water Analysis								
Chloride (Cl)	<1		1	mg/L		11-AUG-06	WYA	R429576
ICP metals and SO4 for routine water								
Calcium (Ca)	10.3		0.5	mg/L		11-AUG-06	MLH	R429958
Potassium (K)	<0.5		0.5	mg/L		11-AUG-06	MLH	R429958
Magnesium (Mg)	0.8		0.1	mg/L		11-AUG-06	MLH	R429958
Sodium (Na)	<1		1	mg/L		11-AUG-06	MLH	R429958
Sulfate (SO4)	18.4		0.5	mg/L		11-AUG-06	MLH	R429958
Ion Balance Calculation								
Ion Balance	Low EC			%		14-AUG-06		
TDS (Calculated)	34			mg/L		14-AUG-06		
Hardness (as CaCO3)	29			mg/L		14-AUG-06		
Nitrate+Nitrite-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrate-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrite-N	<0.05		0.05	mg/L		11-AUG-06	SHC	R429820
pH, Conductivity and Total Alkalinity								
pH	7.3		0.1	pH		11-AUG-06	PTT	R429312
Conductivity (EC)	64.6		0.2	uS/cm		11-AUG-06	PTT	R429312
Bicarbonate (HCO3)	10		5	mg/L		11-AUG-06	PTT	R429312
Carbonate (CO3)	<5		5	mg/L		11-AUG-06	PTT	R429312

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-9 STATION 8 MACTUNG								
Sampled By: SM/KL on 05-AUG-06								
Matrix: WATER								
Routine Water Analysis								
pH, Conductivity and Total Alkalinity								
Hydroxide (OH)	<5		5	mg/L		11-AUG-06	PTT	R429312
Alkalinity, Total (as CaCO3)	8		5	mg/L		11-AUG-06	PTT	R429312
L420382-10 STATION 8 DUP MACTUNG								
Sampled By: SM/KL on 05-AUG-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	<0.005		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		25-AUG-06	CLL	R434986
Aluminum (Al)	0.0305		0.0003	mg/L		25-AUG-06	CLL	R434986
Arsenic (As)	0.00247		0.00003	mg/L		25-AUG-06	CLL	R434986
Boron (B)	<0.001		0.001	mg/L		25-AUG-06	CLL	R434986
Barium (Ba)	0.00844		0.00005	mg/L		25-AUG-06	CLL	R434986
Beryllium (Be)	<0.0002		0.0002	mg/L		25-AUG-06	CLL	R434986
Calcium (Ca)	8.19		0.02	mg/L		25-AUG-06	CLL	R434986
Cadmium (Cd)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Cobalt (Co)	0.0005		0.0001	mg/L		25-AUG-06	CLL	R434986
Chromium (Cr)	<0.00006		0.00006	mg/L		25-AUG-06	CLL	R434986
Copper (Cu)	0.0018		0.0006	mg/L		25-AUG-06	CLL	R434986
Mercury (Hg)	<0.00002		0.00002	mg/L		25-AUG-06	CLL	R434986
Potassium (K)	0.13		0.02	mg/L		25-AUG-06	CLL	R434986
Magnesium (Mg)	0.550		0.004	mg/L		25-AUG-06	CLL	R434986
Manganese (Mn)	0.0299		0.0001	mg/L		25-AUG-06	CLL	R434986
Molybdenum (Mo)	0.00119		0.00006	mg/L		25-AUG-06	CLL	R434986
Sodium (Na)	0.226		0.005	mg/L		25-AUG-06	CLL	R434986
Nickel (Ni)	0.00305		0.00006	mg/L		25-AUG-06	CLL	R434986
Lead (Pb)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Antimony (Sb)	0.00041		0.00003	mg/L		25-AUG-06	CLL	R434986
Selenium (Se)	0.0002		0.0001	mg/L		25-AUG-06	CLL	R434986
Strontium (Sr)	0.0157		0.0001	mg/L		25-AUG-06	CLL	R434986
Uranium (U)	0.00025		0.00005	mg/L		25-AUG-06	CLL	R434986
Vanadium (V)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Zinc (Zn)	0.0070	RRV	0.0008	mg/L		25-AUG-06	CLL	R434986
Ultra-Low Metals								
Iron (Fe)	0.009		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		25-AUG-06	CLL	R434986
Aluminum (Al)	0.0520		0.0003	mg/L		25-AUG-06	CLL	R434986
Arsenic (As)	0.00320		0.00003	mg/L		25-AUG-06	CLL	R434986
Boron (B)	<0.001		0.001	mg/L		25-AUG-06	CLL	R434986
Barium (Ba)	0.00847		0.00005	mg/L		25-AUG-06	CLL	R434986
Beryllium (Be)	<0.0002		0.0002	mg/L		25-AUG-06	CLL	R434986
Calcium (Ca)	8.23		0.02	mg/L		25-AUG-06	CLL	R434986
Cadmium (Cd)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Cobalt (Co)	0.0005		0.0001	mg/L		25-AUG-06	CLL	R434986
Chromium (Cr)	<0.00006		0.00006	mg/L		25-AUG-06	CLL	R434986
Copper (Cu)	0.0010		0.0006	mg/L		25-AUG-06	CLL	R434986
Mercury (Hg)	<0.00002		0.00002	mg/L		25-AUG-06	CLL	R434986
Potassium (K)	0.13		0.02	mg/L		25-AUG-06	CLL	R434986
Magnesium (Mg)	0.558		0.004	mg/L		25-AUG-06	CLL	R434986

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-10 STATION 8 DUP MACTUNG								
Sampled By: SM/KL on 05-AUG-06								
Matrix: WATER								
Ultra-Low Metals								
Ultra-Low Metals								
Manganese (Mn)	0.0334		0.0001	mg/L		25-AUG-06	CLL	R434986
Molybdenum (Mo)	0.00121		0.00006	mg/L		25-AUG-06	CLL	R434986
Sodium (Na)	0.224		0.005	mg/L		25-AUG-06	CLL	R434986
Nickel (Ni)	0.00273		0.00006	mg/L		25-AUG-06	CLL	R434986
Lead (Pb)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Antimony (Sb)	0.00033		0.00003	mg/L		25-AUG-06	CLL	R434986
Selenium (Se)	0.0003		0.0001	mg/L		25-AUG-06	CLL	R434986
Strontium (Sr)	0.0159		0.0001	mg/L		25-AUG-06	CLL	R434986
Uranium (U)	0.00033		0.00005	mg/L		25-AUG-06	CLL	R434986
Vanadium (V)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Zinc (Zn)	0.0028		0.0008	mg/L		25-AUG-06	CLL	R434986
Ammonia-N	<0.005		0.005	mg/L		18-AUG-06	LDC	R431988
Total Organic Carbon	1		1	mg/L		11-AUG-06	ZOW	R429438
Routine Water Analysis								
Chloride (Cl)	<1		1	mg/L		11-AUG-06	WYA	R429576
ICP metals and SO4 for routine water								
Calcium (Ca)	10.3		0.5	mg/L		11-AUG-06	MLH	R429958
Potassium (K)	<0.5		0.5	mg/L		11-AUG-06	MLH	R429958
Magnesium (Mg)	0.8		0.1	mg/L		11-AUG-06	MLH	R429958
Sodium (Na)	<1		1	mg/L		11-AUG-06	MLH	R429958
Sulfate (SO4)	18.5		0.5	mg/L		11-AUG-06	MLH	R429958
Ion Balance Calculation								
Ion Balance	Low EC			%		14-AUG-06		
TDS (Calculated)	35			mg/L		14-AUG-06		
Hardness (as CaCO3)	29			mg/L		14-AUG-06		
Nitrate+Nitrite-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrate-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrite-N	<0.05		0.05	mg/L		11-AUG-06	SHC	R429820
pH, Conductivity and Total Alkalinity								
pH	7.3		0.1	pH		11-AUG-06	PTT	R429312
Conductivity (EC)	64.3		0.2	uS/cm		11-AUG-06	PTT	R429312
Bicarbonate (HCO3)	11		5	mg/L		11-AUG-06	PTT	R429312
Carbonate (CO3)	<5		5	mg/L		11-AUG-06	PTT	R429312
Hydroxide (OH)	<5		5	mg/L		11-AUG-06	PTT	R429312
Alkalinity, Total (as CaCO3)	9		5	mg/L		11-AUG-06	PTT	R429312
L420382-11 STATION 9 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.758		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		25-AUG-06	CLL	R434986
Aluminum (Al)	5.16		0.0003	mg/L		25-AUG-06	CLL	R434986
Arsenic (As)	0.00010		0.00003	mg/L		25-AUG-06	CLL	R434986
Boron (B)	0.001		0.001	mg/L		25-AUG-06	CLL	R434986
Barium (Ba)	0.0256		0.00005	mg/L		25-AUG-06	CLL	R434986
Beryllium (Be)	0.0005		0.0002	mg/L		25-AUG-06	CLL	R434986
Calcium (Ca)	22.0		0.02	mg/L		25-AUG-06	CLL	R434986
Cadmium (Cd)	0.0199		0.00005	mg/L		25-AUG-06	CLL	R434986

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-11 STATION 9 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals - Dissolved								
Cobalt (Co)	0.0274		0.0001	mg/L		25-AUG-06	CLL	R434986
Chromium (Cr)	0.00007		0.00006	mg/L		25-AUG-06	CLL	R434986
Copper (Cu)	0.0572		0.0006	mg/L		25-AUG-06	CLL	R434986
Mercury (Hg)	<0.00002		0.00002	mg/L		25-AUG-06	CLL	R434986
Potassium (K)	0.61		0.02	mg/L		25-AUG-06	CLL	R434986
Magnesium (Mg)	10.1		0.004	mg/L		25-AUG-06	CLL	R434986
Manganese (Mn)	0.438		0.0001	mg/L		25-AUG-06	CLL	R434986
Molybdenum (Mo)	<0.00006		0.00006	mg/L		25-AUG-06	CLL	R434986
Sodium (Na)	0.205		0.005	mg/L		25-AUG-06	CLL	R434986
Nickel (Ni)	0.202		0.00006	mg/L		25-AUG-06	CLL	R434986
Lead (Pb)	0.00007		0.00005	mg/L		25-AUG-06	CLL	R434986
Antimony (Sb)	0.00015		0.00003	mg/L		25-AUG-06	CLL	R434986
Selenium (Se)	0.0015		0.0001	mg/L		25-AUG-06	CLL	R434986
Strontium (Sr)	0.0930		0.0001	mg/L		25-AUG-06	CLL	R434986
Uranium (U)	0.00209		0.00005	mg/L		25-AUG-06	CLL	R434986
Vanadium (V)	<0.00005		0.00005	mg/L		25-AUG-06	CLL	R434986
Zinc (Zn)	0.792		0.0008	mg/L		25-AUG-06	CLL	R434986
Ultra-Low Metals								
Iron (Fe)	3.35		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		25-AUG-06	CLL	R434986
Aluminum (Al)	5.33		0.0003	mg/L		25-AUG-06	CLL	R434986
Arsenic (As)	0.00047		0.00003	mg/L		25-AUG-06	CLL	R434986
Boron (B)	0.001		0.001	mg/L		25-AUG-06	CLL	R434986
Barium (Ba)	0.0248		0.00005	mg/L		25-AUG-06	CLL	R434986
Beryllium (Be)	0.0005		0.0002	mg/L		25-AUG-06	CLL	R434986
Calcium (Ca)	20.9		0.02	mg/L		25-AUG-06	CLL	R434986
Cadmium (Cd)	0.0192		0.00005	mg/L		25-AUG-06	CLL	R434986
Cobalt (Co)	0.0261		0.0001	mg/L		25-AUG-06	CLL	R434986
Chromium (Cr)	0.00140		0.00006	mg/L		25-AUG-06	CLL	R434986
Copper (Cu)	0.0555		0.0006	mg/L		25-AUG-06	CLL	R434986
Mercury (Hg)	<0.00002		0.00002	mg/L		25-AUG-06	CLL	R434986
Potassium (K)	0.58		0.02	mg/L		25-AUG-06	CLL	R434986
Magnesium (Mg)	9.67		0.004	mg/L		25-AUG-06	CLL	R434986
Manganese (Mn)	0.429		0.0001	mg/L		25-AUG-06	CLL	R434986
Molybdenum (Mo)	0.00034		0.00006	mg/L		25-AUG-06	CLL	R434986
Sodium (Na)	0.191		0.005	mg/L		25-AUG-06	CLL	R434986
Nickel (Ni)	0.194		0.00006	mg/L		25-AUG-06	CLL	R434986
Lead (Pb)	0.00012		0.00005	mg/L		25-AUG-06	CLL	R434986
Antimony (Sb)	0.00012		0.00003	mg/L		25-AUG-06	CLL	R434986
Selenium (Se)	0.0015		0.0001	mg/L		25-AUG-06	CLL	R434986
Strontium (Sr)	0.0891		0.0001	mg/L		25-AUG-06	CLL	R434986
Uranium (U)	0.00225		0.00005	mg/L		25-AUG-06	CLL	R434986
Vanadium (V)	0.00287		0.00005	mg/L		25-AUG-06	CLL	R434986
Zinc (Zn)	0.742		0.0008	mg/L		25-AUG-06	CLL	R434986
Ammonia-N	0.034		0.005	mg/L		18-AUG-06	LDC	R431988
Total Organic Carbon	<1		1	mg/L		11-AUG-06	ZOW	R429438
Routine Water Analysis								
Chloride (Cl)	<1		1	mg/L		11-AUG-06	WYA	R429576

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-11 STATION 9 MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Routine Water Analysis								
ICP metals and SO4 for routine water								
Calcium (Ca)	28.5		0.5	mg/L		11-AUG-06	MLH	R429958
Potassium (K)	0.8		0.5	mg/L		11-AUG-06	MLH	R429958
Magnesium (Mg)	14.1		0.1	mg/L		11-AUG-06	MLH	R429958
Sodium (Na)	<1		1	mg/L		11-AUG-06	MLH	R429958
Sulfate (SO4)	155		0.5	mg/L		11-AUG-06	MLH	R429958
Ion Balance Calculation								
Ion Balance	80.7	BL:INT		%		17-AUG-06		
TDS (Calculated)	198			mg/L		17-AUG-06		
Hardness (as CaCO3)	129			mg/L		17-AUG-06		
Nitrate+Nitrite-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrate-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrite-N	<0.05		0.05	mg/L		11-AUG-06	SHC	R429820
pH, Conductivity and Total Alkalinity								
pH	4.4		0.1	pH		11-AUG-06	PTT	R429312
Conductivity (EC)	313		0.2	uS/cm		11-AUG-06	PTT	R429312
Bicarbonate (HCO3)	<5		5	mg/L		11-AUG-06	PTT	R429312
Carbonate (CO3)	<5		5	mg/L		11-AUG-06	PTT	R429312
Hydroxide (OH)	<5		5	mg/L		11-AUG-06	PTT	R429312
Alkalinity, Total (as CaCO3)	<5		5	mg/L		11-AUG-06	PTT	R429312
L420382-12 FIELD BLANK MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	<0.005		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Aluminum (Al)	0.0022	RRV	0.0003	mg/L		22-AUG-06	CLL	R433768
Arsenic (As)	<0.00003		0.00003	mg/L		22-AUG-06	CLL	R433768
Boron (B)	<0.001		0.001	mg/L		22-AUG-06	CLL	R433768
Barium (Ba)	0.00007	RRV	0.00005	mg/L		22-AUG-06	CLL	R433768
Beryllium (Be)	<0.0002		0.0002	mg/L		22-AUG-06	CLL	R433768
Calcium (Ca)	0.06	RRV	0.02	mg/L		22-AUG-06	CLL	R433768
Cadmium (Cd)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Cobalt (Co)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Chromium (Cr)	<0.00006		0.00006	mg/L		22-AUG-06	CLL	R433768
Copper (Cu)	<0.0006		0.0006	mg/L		22-AUG-06	CLL	R433768
Mercury (Hg)	<0.00002		0.00002	mg/L		22-AUG-06	CLL	R433768
Potassium (K)	<0.02		0.02	mg/L		22-AUG-06	CLL	R433768
Magnesium (Mg)	<0.004		0.004	mg/L		22-AUG-06	CLL	R433768
Manganese (Mn)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Molybdenum (Mo)	<0.00006		0.00006	mg/L		22-AUG-06	CLL	R433768
Sodium (Na)	0.240	RRV	0.005	mg/L		22-AUG-06	CLL	R433768
Nickel (Ni)	0.00007	RRV	0.00006	mg/L		22-AUG-06	CLL	R433768
Lead (Pb)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Selenium (Se)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Strontium (Sr)	0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Uranium (U)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Vanadium (V)	<0.00005		0.00005	mg/L		31-AUG-06	CLL	R437552
Zinc (Zn)	0.0015	RRV	0.0008	mg/L		22-AUG-06	CLL	R433768
Ultra-Low Metals								

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-12 FIELD BLANK MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Ultra-Low Metals								
Iron (Fe)	<0.005		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Aluminum (Al)	0.0020		0.0003	mg/L		22-AUG-06	CLL	R433768
Arsenic (As)	<0.00003		0.00003	mg/L		22-AUG-06	CLL	R433768
Boron (B)	<0.001		0.001	mg/L		22-AUG-06	CLL	R433768
Barium (Ba)	0.00007		0.00005	mg/L		22-AUG-06	CLL	R433768
Beryllium (Be)	<0.0002		0.0002	mg/L		22-AUG-06	CLL	R433768
Calcium (Ca)	0.04		0.02	mg/L		22-AUG-06	CLL	R433768
Cadmium (Cd)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Cobalt (Co)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Chromium (Cr)	<0.00006		0.00006	mg/L		22-AUG-06	CLL	R433768
Copper (Cu)	<0.0006		0.0006	mg/L		22-AUG-06	CLL	R433768
Mercury (Hg)	<0.00002		0.00002	mg/L		22-AUG-06	CLL	R433768
Potassium (K)	<0.02		0.02	mg/L		22-AUG-06	CLL	R433768
Magnesium (Mg)	<0.004		0.004	mg/L		22-AUG-06	CLL	R433768
Manganese (Mn)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Molybdenum (Mo)	<0.00006		0.00006	mg/L		22-AUG-06	CLL	R433768
Sodium (Na)	0.239		0.005	mg/L		22-AUG-06	CLL	R433768
Nickel (Ni)	<0.00006		0.00006	mg/L		22-AUG-06	CLL	R433768
Lead (Pb)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Antimony (Sb)	0.00021		0.00003	mg/L		22-AUG-06	CLL	R433768
Selenium (Se)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Strontium (Sr)	0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Uranium (U)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Vanadium (V)	0.00118		0.00005	mg/L		22-AUG-06	CLL	R433768
Zinc (Zn)	<0.0008		0.0008	mg/L		22-AUG-06	CLL	R433768
Ammonia-N	<0.005		0.005	mg/L		18-AUG-06	LDC	R431988
Total Organic Carbon	<1		1	mg/L		11-AUG-06	ZOW	R429438
Routine Water Analysis								
Chloride (Cl)	<1		1	mg/L		11-AUG-06	WYA	R429576
ICP metals and SO4 for routine water								
Calcium (Ca)	<0.5		0.5	mg/L		14-AUG-06	JWU	R430125
Potassium (K)	<0.5		0.5	mg/L		14-AUG-06	JWU	R430125
Magnesium (Mg)	<0.1		0.1	mg/L		14-AUG-06	JWU	R430125
Sodium (Na)	<1		1	mg/L		14-AUG-06	JWU	R430125
Sulfate (SO4)	<0.5		0.5	mg/L		14-AUG-06	JWU	R430125
Ion Balance Calculation								
Ion Balance	Low TDS			%		15-AUG-06		
TDS (Calculated)	<1			mg/L		15-AUG-06		
Hardness (as CaCO3)	<1			mg/L		15-AUG-06		
Nitrate+Nitrite-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrate-N	<0.1		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrite-N	<0.05		0.05	mg/L		11-AUG-06	SHC	R429820
pH, Conductivity and Total Alkalinity								
pH	6.3		0.1	pH		11-AUG-06	PTT	R429312
Conductivity (EC)	1.6		0.2	uS/cm		11-AUG-06	PTT	R429312
Bicarbonate (HCO3)	<5		5	mg/L		11-AUG-06	PTT	R429312
Carbonate (CO3)	<5		5	mg/L		11-AUG-06	PTT	R429312
Hydroxide (OH)	<5		5	mg/L		11-AUG-06	PTT	R429312

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-12 FIELD BLANK MACTUNG								
Sampled By: SM/KL on 06-AUG-06								
Matrix: WATER								
Routine Water Analysis								
pH, Conductivity and Total Alkalinity								
Alkalinity, Total (as CaCO3)	<5		5	mg/L		11-AUG-06	PTT	R429312
L420382-13 TRAVEL BLANK MACTUNG								
Sampled By: NOT PROVIDED								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	<0.005		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Aluminum (Al)	<0.0003		0.0003	mg/L		22-AUG-06	CLL	R433768
Arsenic (As)	<0.00003		0.00003	mg/L		22-AUG-06	CLL	R433768
Boron (B)	<0.001		0.001	mg/L		22-AUG-06	CLL	R433768
Barium (Ba)	0.00010	RRV	0.00005	mg/L		22-AUG-06	CLL	R433768
Beryllium (Be)	<0.0002		0.0002	mg/L		22-AUG-06	CLL	R433768
Calcium (Ca)	<0.02		0.02	mg/L		22-AUG-06	CLL	R433768
Cadmium (Cd)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Cobalt (Co)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Chromium (Cr)	<0.00006		0.00006	mg/L		22-AUG-06	CLL	R433768
Copper (Cu)	0.0030	RRV	0.0006	mg/L		22-AUG-06	CLL	R433768
Mercury (Hg)	<0.00002		0.00002	mg/L		22-AUG-06	CLL	R433768
Potassium (K)	<0.02		0.02	mg/L		22-AUG-06	CLL	R433768
Magnesium (Mg)	<0.004		0.004	mg/L		22-AUG-06	CLL	R433768
Manganese (Mn)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Molybdenum (Mo)	<0.00006		0.00006	mg/L		22-AUG-06	CLL	R433768
Sodium (Na)	<0.005		0.005	mg/L		31-AUG-06	CLL	R437552
Nickel (Ni)	<0.00006		0.00006	mg/L		22-AUG-06	CLL	R433768
Lead (Pb)	0.00011	RRV	0.00005	mg/L		22-AUG-06	CLL	R433768
Antimony (Sb)	0.00022	RRV	0.00003	mg/L		22-AUG-06	CLL	R433768
Selenium (Se)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Strontium (Sr)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Uranium (U)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Vanadium (V)	<0.00005		0.00005	mg/L		31-AUG-06	CLL	R437552
Zinc (Zn)	<0.0008		0.0008	mg/L		22-AUG-06	CLL	R433768
Ultra-Low Metals								
Iron (Fe)	<0.005		0.005	mg/L		24-AUG-06	HAS	R434245
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Aluminum (Al)	<0.0003		0.0003	mg/L		22-AUG-06	CLL	R433768
Arsenic (As)	<0.00003		0.00003	mg/L		22-AUG-06	CLL	R433768
Boron (B)	<0.001		0.001	mg/L		22-AUG-06	CLL	R433768
Barium (Ba)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Beryllium (Be)	<0.0002		0.0002	mg/L		22-AUG-06	CLL	R433768
Calcium (Ca)	<0.02		0.02	mg/L		22-AUG-06	CLL	R433768
Cadmium (Cd)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Cobalt (Co)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Chromium (Cr)	<0.00006		0.00006	mg/L		22-AUG-06	CLL	R433768
Copper (Cu)	<0.0006	RRV	0.0006	mg/L		22-AUG-06	CLL	R433768
Mercury (Hg)	<0.00002		0.00002	mg/L		22-AUG-06	CLL	R433768
Potassium (K)	<0.02		0.02	mg/L		22-AUG-06	CLL	R433768
Magnesium (Mg)	<0.004		0.004	mg/L		22-AUG-06	CLL	R433768
Manganese (Mn)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L420382-13 TRAVEL BLANK MACTUNG								
Sampled By: NOT PROVIDED								
Matrix: WATER								
Ultra-Low Metals								
Ultra-Low Metals								
Molybdenum (Mo)	<0.00006		0.00006	mg/L		22-AUG-06	CLL	R433768
Sodium (Na)	0.007		0.005	mg/L		22-AUG-06	CLL	R433768
Nickel (Ni)	<0.00006		0.00006	mg/L		22-AUG-06	CLL	R433768
Lead (Pb)	<0.00005	RRV	0.00005	mg/L		22-AUG-06	CLL	R433768
Antimony (Sb)	0.00016	RRV	0.00003	mg/L		22-AUG-06	CLL	R433768
Selenium (Se)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Strontium (Sr)	<0.0001		0.0001	mg/L		22-AUG-06	CLL	R433768
Uranium (U)	<0.00005		0.00005	mg/L		22-AUG-06	CLL	R433768
Vanadium (V)	<0.00005		0.00005	mg/L		31-AUG-06	CLL	R437552
Zinc (Zn)	<0.0008		0.0008	mg/L		22-AUG-06	CLL	R433768
Ammonia-N	<0.005		0.005	mg/L		18-AUG-06	LDC	R431988
Total Organic Carbon	<1		1	mg/L		11-AUG-06	ZOW	R429438
Routine Water Analysis								
Chloride (Cl)	<1		1	mg/L		11-AUG-06	WYA	R429576
ICP metals and SO4 for routine water								
Calcium (Ca)	<0.5		0.5	mg/L		14-AUG-06	JWU	R430125
Potassium (K)	<0.5		0.5	mg/L		14-AUG-06	JWU	R430125
Magnesium (Mg)	<0.1		0.1	mg/L		14-AUG-06	JWU	R430125
Sodium (Na)	<1		1	mg/L		14-AUG-06	JWU	R430125
Sulfate (SO4)	<0.5		0.5	mg/L		14-AUG-06	JWU	R430125
Ion Balance Calculation								
Ion Balance	Low EC			%		15-AUG-06		
TDS (Calculated)	1			mg/L		15-AUG-06		
Hardness (as CaCO3)	<1			mg/L		15-AUG-06		
Nitrate+Nitrite-N	0.3		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrate-N	0.3		0.1	mg/L		11-AUG-06	SHC	R429820
Nitrite-N	<0.05		0.05	mg/L		11-AUG-06	SHC	R429820
pH, Conductivity and Total Alkalinity								
pH	5.5		0.1	pH		11-AUG-06	PTT	R429312
Conductivity (EC)	1.2		0.2	uS/cm		11-AUG-06	PTT	R429312
Bicarbonate (HCO3)	<5		5	mg/L		11-AUG-06	PTT	R429312
Carbonate (CO3)	<5		5	mg/L		11-AUG-06	PTT	R429312
Hydroxide (OH)	<5		5	mg/L		11-AUG-06	PTT	R429312
Alkalinity, Total (as CaCO3)	<5		5	mg/L		11-AUG-06	PTT	R429312

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
BL:INT	Balance Reviewed: Interference Or Non-Measured Component
RRV	Reported Result Verified By Repeat Analysis

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Preparation Method Reference(Based On)	Analytical Method Reference(Based On)
C-TOT-ORG-ED	Water	Total Organic Carbon		APHA 5310 B-Instrumental
CL-ED	Water	Chloride (Cl)		APHA 4500 Cl E-Colorimetry
ETL-ROUTINE-ICP-ED	Water	ICP metals and SO4 for routine water		APHA 3120 B-ICP-OES
IONBALANCE-ED	Water	Ion Balance Calculation		APHA 1030E
MET1-TOT-LOW-ED	Water	Total Trace Metals (Low Level)	EPA3015	EPA 6020
MET1-ULTRA-DIS-ED	Water	Ultra-Low Metals - Dissolved		EPA 6020
MET1-ULTRA-ED	Water	Ultra-Low Metals		EPA 6020
MET2-TOT-LOW-ED	Water	Total Major Metals	EPA3015	EPA 200.7
MET2-ULTRA-DIS-ED	Water	Major Metals - Dissolved		EPA 200.7
MET2-ULTRA-ED	Water	Major Metals		EPA 200.7
N2N3-ED	Water	Nitrate+Nitrite-N		APHA 4500 NO3H-Colorimetry
NH4-LOW-ED	Water	Ammonia-N		APHA 4500 NH3F-Colorimetry
NO2-ED	Water	Nitrite-N		APHA 4500 NO2B-Colorimetry
NO3-ED	Water	Nitrate-N		APHA 4500 NO3H-Colorimetry
PH/EC/ALK-ED	Water	pH, Conductivity and Total Alkalinity		APHA 4500-H, 2510, 2320

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

Chain of Custody numbers:

261004 261005

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
ED	ALS LABORATORY GROUP - EDMONTON, ALBERTA, CANADA		

Reference Information

GLOSSARY OF REPORT TERMS
Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.
The reported surrogate recovery value provides a measure of method efficiency. The Laboratory control limits are determined under column heading D.L.
mg/kg (units) - unit of concentration based on mass, parts per million.
mg/L (units) - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
UNLESS OTHERWISE STATED, SAMPLES ARE NOT CORRECTED FOR CLIENT FIELD BLANKS.
Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

ETL Enviro-Test LABORATORIES

CHAIN OF CUSTODY / ANALYTICAL REQUEST FORM

CANADA TOLL FREE 1-800-668-9878

WWW.ENVIROTEST.COM

COC # 261004

DATE: Aug 9/06

LAB WORK ORDER # L420382

REPORT TO:

COMPANY: EBA Engineering Consultants

CONTACT: Steve Moore

ADDRESS: P.O. Box 2244, #201, 4916-49st

Yellowknife, NT X1A 2P7

PHONE: (867)920-2287 FAX: (867)873-3324

CELLPHONE:

INVOICE TO: SAME (Y) / N

COMPANY:

CONTACT:

ADDRESS:

PHONE: FAX:

REPORT DISTRIBUTION ALL FINAL RESULTS WILL BE MAILED

EMAIL ✓ FAX

EMAIL 1: smoore@eba.ca

EMAIL 2: klanglais@eba.ca

DIGITAL EMAIL:

SELECT: pdf digital both ✓

JOB # ~~1200163~~ 1200163

PO/AFE:

LSD:

QUOTE #

SERVICE REQUESTED

- ✓ REGULAR SERVICE (DEFAULT)
- PRIORITY SERVICE (50% SURCHARGE)
- EMERGENCY SERVICE (100% SURCHARGE)

ANALYSIS REQUEST

INDICATE BOTTLES: FILTERED/PRESERVED (F/P) ▶

SAMPLE ID	SAMPLING LOCATION	SAMPLED BY / DATE / TIME	SAMPLING METHOD	SAMPLE TYPE	Nutrients	Routine	TOC	Ultra Low Level Total Metals	Ultra Low Level Dissolved Metals						HAZARDOUS ?	NUMBER OF CONTAINERS	HIGHLY CONTAMINATED ?	LAB SAMPLE #
Station 1	MacTung	SM/KL/Aug 6/06	Grab	Water	✓	✓	✓	✓	✓									
Station 2	" "	" "	"	"	✓	✓	✓	✓	✓									
Station 3	" "	" "	"	"	✓	✓	✓	✓	✓									
Station 3 Dup	" "	" "	"	"	✓	✓	✓	✓	✓									
Station 4	" "	" "	"	"	✓	✓	✓	✓	✓									
Station 5	" "	SM/KL/Aug 5/06	"	"	✓	✓	✓	✓	✓									
Station 6	" "	SM/KL/Aug 6/06	"	"	✓	✓	✓	✓	✓									
Station 7	" "	" "	"	"	✓	✓	✓	✓	✓									
Station 8	" "	SM/KL/Aug 5/06	"	"	✓	✓	✓	✓	✓									
Station 8 Dup	" "	"	"	"	✓	✓	✓	✓	✓									
Station 9	" "	SM/KL/Aug 6/06	"	"	✓	✓	✓	✓	✓									
Field Blank	" "	" "	"	"	✓	✓	✓	✓	✓									

GUIDELINES / REGULATIONS

CCME

SPECIAL INSTRUCTIONS / NATURE OF HAZARDOUS MATERIAL

SAMPLE CONDITION

- FROZEN
- ✓ COLD
- AMBIENT

MEAN TEMPERATURE: 5.6

Failure to complete all portions of this form may delay analysis. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the reverse of the white report copy.

RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	SAMPLE CONDITION ACCEPTABLE UPON RECEIPT ? (Y/N)
Kaula Langlais	Aug 9/06		10 Aug 06 10:35	
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	

CHAIN OF CUSTODY / ANALYTICAL REQUEST FORM

ETL EnviroTest LABORATORIES

CANADA TOLL FREE 1-800-668-9878

WWW.ENVIROTEST.COM

COC #261005

DATE: Aug 9/04

LAB WORK ORDER #

REPORT TO:

COMPANY: EBA Engineering Consultants

CONTACT: Steve Moore

ADDRESS: #201, 4916-49 St

Yellowknife, NT X1A 2P7

PHONE: (867) 920-2287 FAX: (867) 873-3324

CELLPHONE:

REPORT DISTRIBUTION ALL FINAL RESULTS WILL BE MAILED

EMAIL ✓ FAX

EMAIL 1: smoore@eba.ca

EMAIL 2: klanglois@eba.ca

DIGITAL EMAIL:

SELECT: pdf digital both ✓

SERVICE REQUESTED

- ✓ REGULAR SERVICE (DEFAULT)
- PRIORITY SERVICE (50% SURCHARGE)
- EMERGENCY SERVICE (100% SURCHARGE)

INVOICE TO: SAME (Y) N

COMPANY:

CONTACT:

ADDRESS:

PHONE: FAX:

JOB # 1200163

PO/AFE:

LSD:

QUOTE #

INDICATE BOTTLES: FILTERED/PRESERVED (F/P) ▶

ANALYSIS REQUEST

SAMPLE ID	SAMPLING LOCATION	SAMPLED BY / DATE / TIME	SAMPLING METHOD	SAMPLE TYPE	Nutrients	Routine	TOC	Ultra Low level Total Metals	Ultra Low level Dissolved Metals	HAZARDOUS ?	NUMBER OF CONTAINERS	HIGHLY CONTAMINATED ?	LAB SAMPLE #
Travel Blank	MacKay MacTung			Water	✓	✓	✓	✓	✓				
Filter Blank	MacKay MacTung			Filter				✓	✓				

GUIDELINES / REGULATIONS: CCME

SPECIAL INSTRUCTIONS / NATURE OF HAZARDOUS MATERIAL:

SAMPLE CONDITION

- FROZEN
- COLD
- AMBIENT

MEAN TEMPERATURE

Failure to complete all portions of this form may delay analysis. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the reverse of the white report copy.

RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	SAMPLE CONDITION ACCEPTABLE UPON RECEIPT ? (Y/N)
Kaula Langlois	Aug 9/04			
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	

3250225-03003

ETL Enviro-Test LABORATORIES

CHAIN OF CUSTODY / ANALYTICAL REQUEST FORM

CANADA TOLL FREE 1-800-668-9878

WWW.ENVIROTEST.COM

COC # 261004

DATE: Aug 9/06

LAB WORK ORDER # L420382

REPORT TO:

COMPANY: EBA Engineering Consultants

CONTACT: Steve Moore

ADDRESS: P.O. Box 2244, #201, 4916-49st

Yellowknife, NT X1A 2P7

PHONE: (867)920-2287 FAX: (867)873-3324

CELLPHONE:

INVOICE TO: SAME (Y) / N

COMPANY:

CONTACT:

ADDRESS:

PHONE: FAX:

REPORT DISTRIBUTION ALL FINAL RESULTS WILL BE MAILED

EMAIL ✓ FAX

EMAIL 1: smoore@eba.ca

EMAIL 2: klanglais@eba.ca

DIGITAL EMAIL:

SELECT: pdf digital both ✓

JOB # ~~1200163~~ 1200163

PO/AFE:

LSD:

QUOTE #

SERVICE REQUESTED

- ✓ REGULAR SERVICE (DEFAULT)
- PRIORITY SERVICE (50% SURCHARGE)
- EMERGENCY SERVICE (100% SURCHARGE)

ANALYSIS REQUEST

INDICATE BOTTLES: FILTERED/PRESERVED (F/P) ▶

SAMPLE ID	SAMPLING LOCATION	SAMPLED BY / DATE / TIME	SAMPLING METHOD	SAMPLE TYPE	Nutrients	Routine	TOC	Ultra Low Level Total Metals	Ultra Low Level Dissolved Metals						HAZARDOUS ?	NUMBER OF CONTAINERS	HIGHLY CONTAMINATED ?	LAB SAMPLE #
Station 1	MacTung	SM/KL/Aug 6/06	Grab	Water	✓	✓	✓	✓	✓									
Station 2	" "	" "	"	"	✓	✓	✓	✓	✓									
Station 3	" "	" "	"	"	✓	✓	✓	✓	✓									
Station 3 Dup	" "	" "	"	"	✓	✓	✓	✓	✓									
Station 4	" "	" "	"	"	✓	✓	✓	✓	✓									
Station 5	" "	SM/KL/Aug 5/06	"	"	✓	✓	✓	✓	✓									
Station 6	" "	SM/KL/Aug 6/06	"	"	✓	✓	✓	✓	✓									
Station 7	" "	" "	"	"	✓	✓	✓	✓	✓									
Station 8	" "	SM/KL/Aug 5/06	"	"	✓	✓	✓	✓	✓									
Station 8 Dup	" "	"	"	"	✓	✓	✓	✓	✓									
Station 9	" "	SM/KL/Aug 6/06	"	"	✓	✓	✓	✓	✓									
Field Blank	" "	" "	"	"	✓	✓	✓	✓	✓									

GUIDELINES / REGULATIONS

CCME

SPECIAL INSTRUCTIONS / NATURE OF HAZARDOUS MATERIAL

SAMPLE CONDITION

- FROZEN
- ✓ COLD
- AMBIENT

MEAN TEMPERATURE: 5.6

Failure to complete all portions of this form may delay analysis. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the reverse of the white report copy.

RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	SAMPLE CONDITION ACCEPTABLE UPON RECEIPT ? (Y/N)
Kaula Langlais	Aug 9/06		10 Aug 06 10:35	
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	

CHAIN OF CUSTODY / ANALYTICAL REQUEST FORM

ETL EnviroTest LABORATORIES

CANADA TOLL FREE 1-800-668-9878

WWW.ENVIROTEST.COM

COC #261005

DATE: Aug 9/04

LAB WORK ORDER #

REPORT TO:

COMPANY: EBA Engineering Consultants

CONTACT: Steve Moore

ADDRESS: #201, 4916-49 St

Yellowknife, NT X1A 2P7

PHONE: (867) 920-2287 FAX: (867) 873-3324

CELLPHONE:

REPORT DISTRIBUTION ALL FINAL RESULTS WILL BE MAILED

EMAIL ✓ FAX

EMAIL 1: smoore@eba.ca

EMAIL 2: klanglois@eba.ca

DIGITAL EMAIL:

SELECT: pdf digital both ✓

SERVICE REQUESTED

- ✓ REGULAR SERVICE (DEFAULT)
- PRIORITY SERVICE (50% SURCHARGE)
- EMERGENCY SERVICE (100% SURCHARGE)

INVOICE TO: SAME (Y) N

COMPANY:

CONTACT:

ADDRESS:

PHONE: FAX:

JOB # 1200163

PO/AFE:

LSD:

QUOTE #

INDICATE BOTTLES: FILTERED/PRESERVED (F/P) ▶

ANALYSIS REQUEST

SAMPLE ID	SAMPLING LOCATION	SAMPLED BY / DATE / TIME	SAMPLING METHOD	SAMPLE TYPE	Nutrients	Routine	TOC	Ultra Low level Total Metals	Ultra Low level Dissolved Metals	HAZARDOUS ?	NUMBER OF CONTAINERS	HIGHLY CONTAMINATED ?	LAB SAMPLE #
Travel Blank	MacKay MacTung			Water	✓	✓	✓	✓	✓				
Filter Blank	MacKay MacTung			Filter				✓	✓				

GUIDELINES / REGULATIONS: CCME

SPECIAL INSTRUCTIONS / NATURE OF HAZARDOUS MATERIAL:

SAMPLE CONDITION

- FROZEN
- COLD
- AMBIENT

MEAN TEMPERATURE

Failure to complete all portions of this form may delay analysis. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the reverse of the white report copy.

RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	SAMPLE CONDITION ACCEPTABLE UPON RECEIPT ? (Y/N)
Kaula Langlois	Aug 9/04			
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	

3250225-03003

ALS Laboratory Group
A Division of ETL Chemspec Analytical Limited
Toll Free1-800-668-9878
9936-67 Avenue, Edmonton, AB T6E 0P5
Phone: +1 780 413 5227 Fax: +1 780 437 2311 www.alsglobal.com

ALS LABORATORY GROUP ANALYTICAL CONFIRMATION SHEET

Company:	EBA ENG CONSULTANTS LTD
ATTN:	STEVE MOORE
Fax Number:	867-873-3324
Project Manager:	CATHERINE EVARISTO-CORDERO
Job Reference:	201-1200163.005 MACTUNG
Project P.O. #:	
Date Sampled:	20-SEP-06
Date Received:	26-SEP-06 **Estimated Completion Date:** 02-OCT-06
Sampled By:	NOT PROVIDED
Workorder #:	**L437043**
Chain of Custody #:	203701 203702

Sample #/SampleID/SampledBy/DateDue: L437043-1/STATION 1 MACTUNG/NOT PROVIDED/02-OCT-06

Matrix	Product Description	Product Due*
Water	Ammonia-N	
Water	Routine Water Analysis - Low Level	
	Chloride (Cl)	
	ICP metals for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
	Sulfate (SO4)	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	09-SEP-06
	Ultra-Low Metals	09-SEP-06
	Major Metals	09-SEP-06
	Metal Setup (Ultra-Low ICPMS)	09-SEP-06
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	09-SEP-06
	Ultra-Low Metals - Dissolved	09-SEP-06
	Major Metals - Dissolved	09-SEP-06
	Metal Setup (Ultra-Low ICPMS)	09-SEP-06

Sample #/SampleID/SampledBy/DateDue: L437043-2/2 MACTUNG/NOT PROVIDED/02-OCT-06

Matrix	Product Description	Product Due*
Water	Ammonia-N	
Water	Routine Water Analysis - Low Level	
	Chloride (Cl)	
	ICP metals for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
	Sulfate (SO4)	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	09-SEP-06

	Ultra-Low Metals	09-SEP-06
	Major Metals	09-SEP-06
	Metal Setup (Ultra-Low ICPMS)	09-SEP-06
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	09-SEP-06
	Ultra-Low Metals - Dissolved	09-SEP-06
	Major Metals - Dissolved	09-SEP-06
	Metal Setup (Ultra-Low ICPMS)	09-SEP-06

Sample #/SampleID/SampledBy/DateDue: L437043-3/3 MACTUNG/NOT PROVIDED/02-OCT-06

Matrix	Product Description	Product Due*
Water	Ammonia-N	
Water	Routine Water Analysis - Low Level	
	Chloride (Cl)	
	ICP metals for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
	Sulfate (SO4)	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	09-SEP-06
	Ultra-Low Metals	09-SEP-06
	Major Metals	09-SEP-06
	Metal Setup (Ultra-Low ICPMS)	09-SEP-06
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	09-SEP-06
	Ultra-Low Metals - Dissolved	09-SEP-06
	Major Metals - Dissolved	09-SEP-06
	Metal Setup (Ultra-Low ICPMS)	09-SEP-06

Sample #/SampleID/SampledBy/DateDue: L437043-4/3 DUPLICATE MACTUNG/NOT PROVIDED/02-OCT-06

Matrix	Product Description	Product Due*
Water	Ammonia-N	
Water	Routine Water Analysis - Low Level	
	Chloride (Cl)	
	ICP metals for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
	Sulfate (SO4)	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	09-SEP-06
	Ultra-Low Metals	09-SEP-06
	Major Metals	09-SEP-06
	Metal Setup (Ultra-Low ICPMS)	09-SEP-06
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	09-SEP-06
	Ultra-Low Metals - Dissolved	09-SEP-06
	Major Metals - Dissolved	09-SEP-06

	Metal Setup (Ultra-Low ICPMS)	09-SEP-06

Sample #/SampleID/SampledBy/DateDue: L437043-5/4 MACTUNG/NOT PROVIDED/02-OCT-06

Matrix	Product Description	Product Due*
Water	Ammonia-N	
Water	Routine Water Analysis - Low Level	
	Chloride (Cl)	
	ICP metals for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
	Sulfate (SO4)	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	09-SEP-06
	Ultra-Low Metals	09-SEP-06
	Major Metals	09-SEP-06
	Metal Setup (Ultra-Low ICPMS)	09-SEP-06
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	09-SEP-06
	Ultra-Low Metals - Dissolved	09-SEP-06
	Major Metals - Dissolved	09-SEP-06
	Metal Setup (Ultra-Low ICPMS)	09-SEP-06

Sample #/SampleID/SampledBy/DateDue: L437043-6/5 MACTUNG/NOT PROVIDED/02-OCT-06

Matrix	Product Description	Product Due*
Water	Ammonia-N	
Water	Routine Water Analysis - Low Level	
	Chloride (Cl)	
	ICP metals for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
	Sulfate (SO4)	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	09-SEP-06
	Ultra-Low Metals	09-SEP-06
	Major Metals	09-SEP-06
	Metal Setup (Ultra-Low ICPMS)	09-SEP-06
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	09-SEP-06
	Ultra-Low Metals - Dissolved	09-SEP-06
	Major Metals - Dissolved	09-SEP-06
	Metal Setup (Ultra-Low ICPMS)	09-SEP-06

Sample #/SampleID/SampledBy/DateDue: L437043-7/6 MACTUNG/NOT PROVIDED/02-OCT-06

Matrix	Product Description	Product Due*
Water	Ammonia-N	
Water	Routine Water Analysis - Low Level	
	Chloride (Cl)	
	ICP metals for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
	Sulfate (SO4)	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	09-SEP-06
	Ultra-Low Metals	09-SEP-06
	Major Metals	09-SEP-06
	Metal Setup (Ultra-Low ICPMS)	09-SEP-06
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	09-SEP-06
	Ultra-Low Metals - Dissolved	09-SEP-06
	Major Metals - Dissolved	09-SEP-06
	Metal Setup (Ultra-Low ICPMS)	09-SEP-06

Sample #/SampleID/SampledBy/DateDue: L437043-8/7 MACTUNG/NOT PROVIDED/02-OCT-06

Matrix	Product Description	Product Due*
Water	Ammonia-N	
Water	Routine Water Analysis - Low Level	
	Chloride (Cl)	
	ICP metals for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
	Sulfate (SO4)	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	09-SEP-06
	Ultra-Low Metals	09-SEP-06
	Major Metals	09-SEP-06
	Metal Setup (Ultra-Low ICPMS)	09-SEP-06
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	09-SEP-06
	Ultra-Low Metals - Dissolved	09-SEP-06
	Major Metals - Dissolved	09-SEP-06
	Metal Setup (Ultra-Low ICPMS)	09-SEP-06

Sample #/SampleID/SampledBy/DateDue: L437043-9/8 MACTUNG/NOT PROVIDED/02-OCT-06

Matrix	Product Description	Product Due*
Water	Ammonia-N	
Water	Routine Water Analysis - Low Level	
	Chloride (Cl)	
	ICP metals for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	

	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
	Sulfate (SO4)	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	09-SEP-06
	Ultra-Low Metals	09-SEP-06
	Major Metals	09-SEP-06
	Metal Setup (Ultra-Low ICPMS)	09-SEP-06
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	09-SEP-06
	Ultra-Low Metals - Dissolved	09-SEP-06
	Major Metals - Dissolved	09-SEP-06
	Metal Setup (Ultra-Low ICPMS)	09-SEP-06

Sample #/SampleID/SampledBy/DateDue: L437043-10/8 DUPLICATE MACTUNG/NOT PROVIDED/02-OCT-06

Matrix	Product Description	Product Due*
Water	Ammonia-N	
Water	Routine Water Analysis - Low Level	
	Chloride (Cl)	
	ICP metals for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
	Sulfate (SO4)	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	09-SEP-06
	Ultra-Low Metals	09-SEP-06
	Major Metals	09-SEP-06
	Metal Setup (Ultra-Low ICPMS)	09-SEP-06
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	09-SEP-06
	Ultra-Low Metals - Dissolved	09-SEP-06
	Major Metals - Dissolved	09-SEP-06
	Metal Setup (Ultra-Low ICPMS)	09-SEP-06

Sample #/SampleID/SampledBy/DateDue: L437043-11/9/NOT PROVIDED/02-OCT-06

Matrix	Product Description	Product Due*
Water	Ammonia-N	
Water	Routine Water Analysis - Low Level	
	Chloride (Cl)	
	ICP metals for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
	Sulfate (SO4)	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	09-SEP-06
	Ultra-Low Metals	09-SEP-06

	Major Metals	09-SEP-06
	Metal Setup (Ultra-Low ICPMS)	09-SEP-06
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	09-SEP-06
	Ultra-Low Metals - Dissolved	09-SEP-06
	Major Metals - Dissolved	09-SEP-06
	Metal Setup (Ultra-Low ICPMS)	09-SEP-06

Sample #/SampleID/SampledBy/DateDue: L437043-12/FIELD BLANK MACTUNG/NOT PROVIDED/02-OCT-06

Matrix	Product Description	Product Due*
Water	Ammonia-N	
Water	Routine Water Analysis - Low Level	
	Chloride (Cl)	
	ICP metals for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
	Sulfate (SO4)	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	09-SEP-06
	Ultra-Low Metals	09-SEP-06
	Major Metals	09-SEP-06
	Metal Setup (Ultra-Low ICPMS)	09-SEP-06
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	09-SEP-06
	Ultra-Low Metals - Dissolved	09-SEP-06
	Major Metals - Dissolved	09-SEP-06
	Metal Setup (Ultra-Low ICPMS)	09-SEP-06

Sample #/SampleID/SampledBy/DateDue: L437043-13/TRIP BLANK MACTUNG/NOT PROVIDED/02-OCT-06

Matrix	Product Description	Product Due*
Water	Ammonia-N	
Water	Routine Water Analysis - Low Level	
	Chloride (Cl)	
	ICP metals for routine water	
	Ion Balance Calculation	
	Nitrate+Nitrite-N	
	Nitrite-N	
	Nitrate-N	
	pH, Conductivity and Total Alkalinity	
	Sulfate (SO4)	
Water	Total Organic Carbon	
Water	Ultra-Low Metals	09-SEP-06
	Ultra-Low Metals	09-SEP-06
	Major Metals	09-SEP-06
	Metal Setup (Ultra-Low ICPMS)	09-SEP-06
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	09-SEP-06
	Ultra-Low Metals - Dissolved	09-SEP-06
	Major Metals - Dissolved	09-SEP-06
	Metal Setup (Ultra-Low ICPMS)	09-SEP-06

Sample #/SampleID/SampledBy/DateDue: L437043-14/FILTER BLANK MACTUNG/NOT PROVIDED/09-OCT-06

Matrix	Product Description	Product Due*
Water	Ultra-Low Metals	
	Ultra-Low Metals	
	Major Metals	
	Metal Setup (Ultra-Low ICPMS)	
Misc.	Handling/Disposal Fee	
Water	Ultra-Low Metals - Dissolved	
	Ultra-Low Metals - Dissolved	
	Major Metals - Dissolved	
	Metal Setup (Ultra-Low ICPMS)	

* INDICATES ESTIMATED COMPLETION DATE OF REQUESTED PRODUCT IF DIFFERENT THAN THE ESTIMATED COMPLETION DATE.

ALS Laboratory Group strives to deliver on-time results to our clients at all times. However, there are times when, due to capacity issues or other unforeseen circumstances, we are unable to meet our expected TATs. The information above is related to a recent workorder you have submitted to our laboratory. We have also included a summary on the parameters of interest for this workorder. In the event that you have an inquiry, please refer to the Work Order # (L+6 digits) when calling the Project Manager.

PRELIMINARY RESULTS

EBA ENG CONSULTANTS LTD
ATTN: STEVE MOORE

201-4916 49 STREET
BOX 2244
YELLOWKNIFE NT X1A 2P7

Reported On: 18-OCT-06 07:51 PM

Lab Work Order #: **L437043** **Date Received:** **26-SEP-06**

Project P.O. #:
Job Reference: 201-1200163.005 MACTUNG
Legal Site Desc:
CofC Numbers: 203701, 203702

Other Information:

Comments:

ROY JONES
General Manager, Edmonton

For any questions about this report please contact your Account Manager:

CATHERINE EVARISTO-CORDERO

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L437043-1 STATION 1 MACTUNG								
Sampled By: NOT PROVIDED on 20-SEP-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	<0.005		0.005	mg/L		02-OCT-06	HAS	R448765
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Aluminum (Al)	0.0369		0.0003	mg/L		28-SEP-06	CLL	R448664
Arsenic (As)	0.00076		0.00003	mg/L		28-SEP-06	CLL	R448664
Boron (B)	0.010		0.001	mg/L		28-SEP-06	CLL	R448664
Barium (Ba)	0.0494		0.00005	mg/L		28-SEP-06	CLL	R448664
Beryllium (Be)	<0.0002		0.0002	mg/L		28-SEP-06	CLL	R448664
Calcium (Ca)	69.1		0.02	mg/L		28-SEP-06	CLL	R448664
Cadmium (Cd)	0.00155		0.00005	mg/L		28-SEP-06	CLL	R448664
Cobalt (Co)	0.0017		0.0001	mg/L		28-SEP-06	CLL	R448664
Chromium (Cr)	0.00086		0.00006	mg/L		28-SEP-06	CLL	R448664
Copper (Cu)	0.0013		0.0006	mg/L		28-SEP-06	CLL	R448664
Mercury (Hg)	<0.00002		0.00002	mg/L		28-SEP-06	CLL	R448664
Potassium (K)	1.20		0.02	mg/L		28-SEP-06	CLL	R448664
Magnesium (Mg)	6.29		0.004	mg/L		28-SEP-06	CLL	R448664
Manganese (Mn)	0.0369		0.0001	mg/L		28-SEP-06	CLL	R448664
Molybdenum (Mo)	0.00486		0.00006	mg/L		28-SEP-06	CLL	R448664
Sodium (Na)	2.35		0.005	mg/L		28-SEP-06	CLL	R448664
Nickel (Ni)	0.0289		0.00006	mg/L		28-SEP-06	CLL	R448664
Lead (Pb)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Antimony (Sb)	0.00035		0.00003	mg/L		28-SEP-06	CLL	R448664
Selenium (Se)	0.0045		0.0001	mg/L		28-SEP-06	CLL	R448664
Strontium (Sr)	0.181		0.0001	mg/L		28-SEP-06	CLL	R448664
Uranium (U)	0.00282		0.00005	mg/L		28-SEP-06	CLL	R448664
Vanadium (V)	0.00088		0.00005	mg/L		28-SEP-06	CLL	R448664
Zinc (Zn)	0.0830		0.0008	mg/L		28-SEP-06	CLL	R448664
Ultra-Low Metals								
Iron (Fe)	0.009		0.005	mg/L		02-OCT-06	HAS	R448765
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Aluminum (Al)	0.299		0.0003	mg/L		28-SEP-06	CLL	R448664
Arsenic (As)	0.00093		0.00003	mg/L		28-SEP-06	CLL	R448664
Boron (B)	0.010		0.001	mg/L		28-SEP-06	CLL	R448664
Barium (Ba)	0.0481		0.00005	mg/L		28-SEP-06	CLL	R448664
Beryllium (Be)	<0.0002		0.0002	mg/L		28-SEP-06	CLL	R448664
Calcium (Ca)	65.3		0.02	mg/L		28-SEP-06	CLL	R448664
Cadmium (Cd)	0.00152		0.00005	mg/L		28-SEP-06	CLL	R448664
Cobalt (Co)	0.0017		0.0001	mg/L		28-SEP-06	CLL	R448664
Chromium (Cr)	0.00079		0.00006	mg/L		28-SEP-06	CLL	R448664
Copper (Cu)	0.0025		0.0006	mg/L		28-SEP-06	CLL	R448664
Mercury (Hg)	<0.00002		0.00002	mg/L		28-SEP-06	CLL	R448664
Potassium (K)	1.18		0.02	mg/L		28-SEP-06	CLL	R448664
Magnesium (Mg)	6.08		0.004	mg/L		28-SEP-06	CLL	R448664
Manganese (Mn)	0.0364		0.0001	mg/L		28-SEP-06	CLL	R448664
Molybdenum (Mo)	0.00468		0.00006	mg/L		28-SEP-06	CLL	R448664
Sodium (Na)	2.30		0.005	mg/L		28-SEP-06	CLL	R448664
Nickel (Ni)	0.0286		0.00006	mg/L		28-SEP-06	CLL	R448664
Lead (Pb)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Antimony (Sb)	0.00041		0.00003	mg/L		28-SEP-06	CLL	R448664
Selenium (Se)	0.0044		0.0001	mg/L		28-SEP-06	CLL	R448664
Strontium (Sr)	0.175		0.0001	mg/L		28-SEP-06	CLL	R448664

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L437043-1 STATION 1 MACTUNG								
Sampled By: NOT PROVIDED on 20-SEP-06								
Matrix: WATER								
Ultra-Low Metals								
Ultra-Low Metals								
Uranium (U)	0.00445		0.00005	mg/L		28-SEP-06	CLL	R448664
Vanadium (V)	0.00095		0.00005	mg/L		28-SEP-06	CLL	R448664
Zinc (Zn)	0.0945		0.0008	mg/L		28-SEP-06	CLL	R448664
Ammonia-N	<0.005		0.005	mg/L		28-SEP-06	LDC	R447365
Total Organic Carbon	<1		1	mg/L		04-OCT-06	ZOW	R449675
Routine Water Analysis - Low Level								
Chloride (Cl)	<1		1	mg/L		27-SEP-06	EOC	R446955
ICP metals for routine water								
Calcium (Ca)	75.6		0.5	mg/L		28-SEP-06	JWU	R447219
Potassium (K)	1.3		0.1	mg/L		28-SEP-06	JWU	R447219
Magnesium (Mg)	6.3		0.1	mg/L		28-SEP-06	JWU	R447219
Sodium (Na)	2		1	mg/L		28-SEP-06	JWU	R447219
Ion Balance Calculation								
Ion Balance	114	BL:INT		%		02-OCT-06		
TDS (Calculated)	250			mg/L		02-OCT-06		
Hardness (as CaCO3)	215			mg/L		02-OCT-06		
Nitrate+Nitrite-N	0.026		0.006	mg/L		26-SEP-06	SHC	R447739
Nitrate-N	0.026		0.006	mg/L		26-SEP-06	SHC	R447739
Nitrite-N	<0.002		0.002	mg/L		26-SEP-06	SHC	R447739
Sulphate (SO4)	130		0.05	mg/L		28-SEP-06	JTV	R447908
pH, Conductivity and Total Alkalinity								
pH	8.0		0.1	pH		29-SEP-06	PTT	R447654
Conductivity (EC)	414		0.2	uS/cm		29-SEP-06	PTT	R447654
Bicarbonate (HCO3)	71		5	mg/L		29-SEP-06	PTT	R447654
Carbonate (CO3)	<5		5	mg/L		29-SEP-06	PTT	R447654
Hydroxide (OH)	<5		5	mg/L		29-SEP-06	PTT	R447654
Alkalinity, Total (as CaCO3)	58		5	mg/L		29-SEP-06	PTT	R447654
L437043-2 2 MACTUNG								
Sampled By: NOT PROVIDED on 20-SEP-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.273		0.005	mg/L		02-OCT-06	HAS	R448765
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Aluminum (Al)	0.0175		0.0003	mg/L		28-SEP-06	CLL	R448664
Arsenic (As)	0.00015		0.00003	mg/L		28-SEP-06	CLL	R448664
Boron (B)	0.006		0.001	mg/L		28-SEP-06	CLL	R448664
Barium (Ba)	0.0513		0.00005	mg/L		28-SEP-06	CLL	R448664
Beryllium (Be)	<0.0002		0.0002	mg/L		28-SEP-06	CLL	R448664
Calcium (Ca)	40.4		0.02	mg/L		28-SEP-06	CLL	R448664
Cadmium (Cd)	0.00728		0.00005	mg/L		28-SEP-06	CLL	R448664
Cobalt (Co)	0.0131		0.0001	mg/L		28-SEP-06	CLL	R448664
Chromium (Cr)	0.00027		0.00006	mg/L		28-SEP-06	CLL	R448664
Copper (Cu)	0.0061		0.0006	mg/L		28-SEP-06	CLL	R448664
Mercury (Hg)	<0.00002		0.00002	mg/L		28-SEP-06	CLL	R448664
Potassium (K)	0.66		0.02	mg/L		28-SEP-06	CLL	R448664
Magnesium (Mg)	11.6		0.004	mg/L		28-SEP-06	CLL	R448664
Manganese (Mn)	0.138		0.0001	mg/L		28-SEP-06	CLL	R448664
Molybdenum (Mo)	0.00132		0.00006	mg/L		28-SEP-06	CLL	R448664
Sodium (Na)	1.06		0.005	mg/L		28-SEP-06	CLL	R448664

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L437043-2 2 MACTUNG								
Sampled By: NOT PROVIDED on 20-SEP-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals - Dissolved								
Nickel (Ni)	0.121		0.00006	mg/L		28-SEP-06	CLL	R448664
Lead (Pb)	0.00032	RRV	0.00005	mg/L		28-SEP-06	CLL	R448664
Antimony (Sb)	0.00047		0.00003	mg/L		28-SEP-06	CLL	R448664
Selenium (Se)	0.0031		0.0001	mg/L		28-SEP-06	CLL	R448664
Strontium (Sr)	0.144		0.0001	mg/L		28-SEP-06	CLL	R448664
Uranium (U)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Vanadium (V)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Zinc (Zn)	0.344		0.0008	mg/L		28-SEP-06	CLL	R448664
Ultra-Low Metals								
Iron (Fe)	1.73		0.005	mg/L		02-OCT-06	HAS	R448765
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Aluminum (Al)	5.01		0.0003	mg/L		28-SEP-06	CLL	R448664
Arsenic (As)	0.00073		0.00003	mg/L		28-SEP-06	CLL	R448664
Boron (B)	0.004		0.001	mg/L		28-SEP-06	CLL	R448664
Barium (Ba)	0.0543		0.00005	mg/L		28-SEP-06	CLL	R448664
Beryllium (Be)	0.0004		0.0002	mg/L		28-SEP-06	CLL	R448664
Calcium (Ca)	39.8		0.02	mg/L		28-SEP-06	CLL	R448664
Cadmium (Cd)	0.00750		0.00005	mg/L		28-SEP-06	CLL	R448664
Cobalt (Co)	0.0149		0.0001	mg/L		28-SEP-06	CLL	R448664
Chromium (Cr)	0.00122		0.00006	mg/L		28-SEP-06	CLL	R448664
Copper (Cu)	0.0434		0.0006	mg/L		28-SEP-06	CLL	R448664
Mercury (Hg)	<0.00002		0.00002	mg/L		28-SEP-06	CLL	R448664
Potassium (K)	0.66		0.02	mg/L		28-SEP-06	CLL	R448664
Magnesium (Mg)	10.5		0.004	mg/L		28-SEP-06	CLL	R448664
Manganese (Mn)	0.144		0.0001	mg/L		28-SEP-06	CLL	R448664
Molybdenum (Mo)	0.00187		0.00006	mg/L		28-SEP-06	CLL	R448664
Sodium (Na)	0.946		0.005	mg/L		28-SEP-06	CLL	R448664
Nickel (Ni)	0.126		0.00006	mg/L		28-SEP-06	CLL	R448664
Lead (Pb)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Antimony (Sb)	0.00047		0.00003	mg/L		28-SEP-06	CLL	R448664
Selenium (Se)	0.0035		0.0001	mg/L		28-SEP-06	CLL	R448664
Strontium (Sr)	0.147		0.0001	mg/L		28-SEP-06	CLL	R448664
Uranium (U)	0.00244		0.00005	mg/L		28-SEP-06	CLL	R448664
Vanadium (V)	0.00187		0.00005	mg/L		28-SEP-06	CLL	R448664
Zinc (Zn)	0.396		0.0008	mg/L		28-SEP-06	CLL	R448664
Ammonia-N	<0.005		0.005	mg/L		28-SEP-06	LDC	R447365
Total Organic Carbon	<1		1	mg/L		04-OCT-06	ZOW	R449675
Routine Water Analysis - Low Level								
Chloride (Cl)	<1		1	mg/L		27-SEP-06	EOC	R446955
ICP metals for routine water								
Calcium (Ca)	47.0		0.5	mg/L		28-SEP-06	JWU	R447219
Potassium (K)	0.8		0.1	mg/L		28-SEP-06	JWU	R447219
Magnesium (Mg)	11.9		0.1	mg/L		28-SEP-06	JWU	R447219
Sodium (Na)	1		1	mg/L		28-SEP-06	JWU	R447219
Ion Balance Calculation								
Ion Balance	114	BL:INT		%		02-OCT-06		
TDS (Calculated)	199			mg/L		02-OCT-06		
Hardness (as CaCO3)	166			mg/L		02-OCT-06		
Nitrate+Nitrite-N	0.042		0.006	mg/L		26-SEP-06	SHC	R447739

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L437043-2 2 MACTUNG								
Sampled By: NOT PROVIDED on 20-SEP-06								
Matrix: WATER								
Routine Water Analysis - Low Level								
Nitrate-N	0.042		0.006	mg/L		26-SEP-06	SHC	R447739
Nitrite-N	<0.002		0.002	mg/L		26-SEP-06	SHC	R447739
Sulphate (SO4)	132		0.05	mg/L		28-SEP-06	JTV	R447908
pH, Conductivity and Total Alkalinity								
pH	7.3		0.1	pH		29-SEP-06	PTT	R447654
Conductivity (EC)	334		0.2	uS/cm		29-SEP-06	PTT	R447654
Bicarbonate (HCO3)	13		5	mg/L		29-SEP-06	PTT	R447654
Carbonate (CO3)	<5		5	mg/L		29-SEP-06	PTT	R447654
Hydroxide (OH)	<5		5	mg/L		29-SEP-06	PTT	R447654
Alkalinity, Total (as CaCO3)	10		5	mg/L		29-SEP-06	PTT	R447654
L437043-3 3 MACTUNG								
Sampled By: NOT PROVIDED on 20-SEP-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.015		0.005	mg/L		02-OCT-06	HAS	R448765
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Aluminum (Al)	0.0260		0.0003	mg/L		28-SEP-06	CLL	R448664
Arsenic (As)	0.00028		0.00003	mg/L		28-SEP-06	CLL	R448664
Boron (B)	0.004		0.001	mg/L		28-SEP-06	CLL	R448664
Barium (Ba)	0.0234		0.00005	mg/L		28-SEP-06	CLL	R448664
Beryllium (Be)	<0.0002		0.0002	mg/L		28-SEP-06	CLL	R448664
Calcium (Ca)	16.2		0.02	mg/L		28-SEP-06	CLL	R448664
Cadmium (Cd)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Cobalt (Co)	0.0009		0.0001	mg/L		28-SEP-06	CLL	R448664
Chromium (Cr)	0.00034		0.00006	mg/L		28-SEP-06	CLL	R448664
Copper (Cu)	0.0007		0.0006	mg/L		28-SEP-06	CLL	R448664
Mercury (Hg)	<0.00002		0.00002	mg/L		28-SEP-06	CLL	R448664
Potassium (K)	0.39		0.02	mg/L		28-SEP-06	CLL	R448664
Magnesium (Mg)	7.98		0.004	mg/L		28-SEP-06	CLL	R448664
Manganese (Mn)	0.0303		0.0001	mg/L		28-SEP-06	CLL	R448664
Molybdenum (Mo)	0.00027		0.00006	mg/L		28-SEP-06	CLL	R448664
Sodium (Na)	0.718		0.005	mg/L		28-SEP-06	CLL	R448664
Nickel (Ni)	0.00527		0.00006	mg/L		28-SEP-06	CLL	R448664
Lead (Pb)	0.00006		0.00005	mg/L		28-SEP-06	CLL	R448664
Antimony (Sb)	0.00017		0.00003	mg/L		28-SEP-06	CLL	R448664
Selenium (Se)	0.0003		0.0001	mg/L		28-SEP-06	CLL	R448664
Strontium (Sr)	0.0496		0.0001	mg/L		28-SEP-06	CLL	R448664
Uranium (U)	0.00040		0.00005	mg/L		28-SEP-06	CLL	R448664
Vanadium (V)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Zinc (Zn)	0.0066		0.0008	mg/L		28-SEP-06	CLL	R448664
Ultra-Low Metals								
Iron (Fe)	0.241		0.005	mg/L		02-OCT-06	HAS	R448765
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Aluminum (Al)	0.157		0.0003	mg/L		28-SEP-06	CLL	R448664
Arsenic (As)	0.00044		0.00003	mg/L		28-SEP-06	CLL	R448664
Boron (B)	0.005		0.001	mg/L		28-SEP-06	CLL	R448664
Barium (Ba)	0.0253		0.00005	mg/L		28-SEP-06	CLL	R448664
Beryllium (Be)	<0.0002		0.0002	mg/L		28-SEP-06	CLL	R448664
Calcium (Ca)	16.2		0.02	mg/L		28-SEP-06	CLL	R448664

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L437043-3 3 MACTUNG								
Sampled By: NOT PROVIDED on 20-SEP-06								
Matrix: WATER								
Ultra-Low Metals								
Ultra-Low Metals								
Cadmium (Cd)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Cobalt (Co)	0.0010		0.0001	mg/L		28-SEP-06	CLL	R448664
Chromium (Cr)	0.00046		0.00006	mg/L		28-SEP-06	CLL	R448664
Copper (Cu)	0.0011		0.0006	mg/L		28-SEP-06	CLL	R448664
Mercury (Hg)	<0.00002		0.00002	mg/L		28-SEP-06	CLL	R448664
Potassium (K)	0.45		0.02	mg/L		28-SEP-06	CLL	R448664
Magnesium (Mg)	7.96		0.004	mg/L		28-SEP-06	CLL	R448664
Manganese (Mn)	0.0331		0.0001	mg/L		28-SEP-06	CLL	R448664
Molybdenum (Mo)	0.00025		0.00006	mg/L		28-SEP-06	CLL	R448664
Sodium (Na)	0.712		0.005	mg/L		28-SEP-06	CLL	R448664
Nickel (Ni)	0.00540		0.00006	mg/L		28-SEP-06	CLL	R448664
Lead (Pb)	0.00007		0.00005	mg/L		28-SEP-06	CLL	R448664
Antimony (Sb)	0.00021		0.00003	mg/L		28-SEP-06	CLL	R448664
Selenium (Se)	0.0002		0.0001	mg/L		28-SEP-06	CLL	R448664
Strontium (Sr)	0.0501		0.0001	mg/L		28-SEP-06	CLL	R448664
Uranium (U)	0.00045		0.00005	mg/L		28-SEP-06	CLL	R448664
Vanadium (V)	0.00031		0.00005	mg/L		28-SEP-06	CLL	R448664
Zinc (Zn)	0.0068		0.0008	mg/L		28-SEP-06	CLL	R448664
Ammonia-N	<0.005		0.005	mg/L		28-SEP-06	LDC	R447365
Total Organic Carbon	1		1	mg/L		04-OCT-06	ZOW	R449675
Routine Water Analysis - Low Level								
Chloride (Cl)	<1		1	mg/L		27-SEP-06	EOC	R446955
ICP metals for routine water								
Calcium (Ca)	18.8		0.5	mg/L		28-SEP-06	JWU	R447219
Potassium (K)	0.5		0.1	mg/L		28-SEP-06	JWU	R447219
Magnesium (Mg)	8.8		0.1	mg/L		28-SEP-06	JWU	R447219
Sodium (Na)	<1		1	mg/L		28-SEP-06	JWU	R447219
Ion Balance Calculation								
Ion Balance	109			%		02-OCT-06		
TDS (Calculated)	93			mg/L		02-OCT-06		
Hardness (as CaCO3)	83			mg/L		02-OCT-06		
Nitrate+Nitrite-N	<0.006		0.006	mg/L		26-SEP-06	SHC	R447739
Nitrate-N	<0.006		0.006	mg/L		26-SEP-06	SHC	R447739
Nitrite-N	<0.002		0.002	mg/L		26-SEP-06	SHC	R447739
Sulphate (SO4)	48.8		0.05	mg/L		28-SEP-06	JTV	R447908
pH, Conductivity and Total Alkalinity								
pH	7.7		0.1	pH		29-SEP-06	PTT	R447654
Conductivity (EC)	171		0.2	uS/cm		29-SEP-06	PTT	R447654
Bicarbonate (HCO3)	32		5	mg/L		29-SEP-06	PTT	R447654
Carbonate (CO3)	<5		5	mg/L		29-SEP-06	PTT	R447654
Hydroxide (OH)	<5		5	mg/L		29-SEP-06	PTT	R447654
Alkalinity, Total (as CaCO3)	27		5	mg/L		29-SEP-06	PTT	R447654
L437043-4 3 DUPLICATE MACTUNG								
Sampled By: NOT PROVIDED on 20-SEP-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.015		0.005	mg/L		02-OCT-06	HAS	R448765
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Aluminum (Al)	0.0257		0.0003	mg/L		28-SEP-06	CLL	R448664

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L437043-4 3 DUPLICATE MACTUNG								
Sampled By: NOT PROVIDED on 20-SEP-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals - Dissolved								
Arsenic (As)	0.00026		0.00003	mg/L		28-SEP-06	CLL	R448664
Boron (B)	0.005		0.001	mg/L		28-SEP-06	CLL	R448664
Barium (Ba)	0.0234		0.00005	mg/L		28-SEP-06	CLL	R448664
Beryllium (Be)	<0.0002		0.0002	mg/L		28-SEP-06	CLL	R448664
Calcium (Ca)	16.4		0.02	mg/L		28-SEP-06	CLL	R448664
Cadmium (Cd)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Cobalt (Co)	0.0009		0.0001	mg/L		28-SEP-06	CLL	R448664
Chromium (Cr)	0.00028		0.00006	mg/L		28-SEP-06	CLL	R448664
Copper (Cu)	0.0007		0.0006	mg/L		28-SEP-06	CLL	R448664
Mercury (Hg)	<0.00002		0.00002	mg/L		28-SEP-06	CLL	R448664
Potassium (K)	0.39		0.02	mg/L		28-SEP-06	CLL	R448664
Magnesium (Mg)	7.89		0.004	mg/L		28-SEP-06	CLL	R448664
Manganese (Mn)	0.0304		0.0001	mg/L		28-SEP-06	CLL	R448664
Molybdenum (Mo)	0.00027		0.00006	mg/L		28-SEP-06	CLL	R448664
Sodium (Na)	0.718		0.005	mg/L		28-SEP-06	CLL	R448664
Nickel (Ni)	0.00527		0.00006	mg/L		28-SEP-06	CLL	R448664
Lead (Pb)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Antimony (Sb)	0.00021		0.00003	mg/L		28-SEP-06	CLL	R448664
Selenium (Se)	0.0003		0.0001	mg/L		28-SEP-06	CLL	R448664
Strontium (Sr)	0.0503		0.0001	mg/L		28-SEP-06	CLL	R448664
Uranium (U)	0.00040		0.00005	mg/L		28-SEP-06	CLL	R448664
Vanadium (V)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Zinc (Zn)	0.0068		0.0008	mg/L		28-SEP-06	CLL	R448664
Ultra-Low Metals								
Iron (Fe)	0.242		0.005	mg/L		02-OCT-06	HAS	R448765
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Aluminum (Al)	0.155		0.0003	mg/L		28-SEP-06	CLL	R448664
Arsenic (As)	0.00043		0.00003	mg/L		28-SEP-06	CLL	R448664
Boron (B)	0.004		0.001	mg/L		28-SEP-06	CLL	R448664
Barium (Ba)	0.0253		0.00005	mg/L		28-SEP-06	CLL	R448664
Beryllium (Be)	<0.0002		0.0002	mg/L		28-SEP-06	CLL	R448664
Calcium (Ca)	16.3		0.02	mg/L		28-SEP-06	CLL	R448664
Cadmium (Cd)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Cobalt (Co)	0.0010		0.0001	mg/L		28-SEP-06	CLL	R448664
Chromium (Cr)	0.00037		0.00006	mg/L		28-SEP-06	CLL	R448664
Copper (Cu)	0.0011		0.0006	mg/L		28-SEP-06	CLL	R448664
Mercury (Hg)	<0.00002		0.00002	mg/L		28-SEP-06	CLL	R448664
Potassium (K)	0.44		0.02	mg/L		28-SEP-06	CLL	R448664
Magnesium (Mg)	7.82		0.004	mg/L		28-SEP-06	CLL	R448664
Manganese (Mn)	0.0328		0.0001	mg/L		28-SEP-06	CLL	R448664
Molybdenum (Mo)	0.00026		0.00006	mg/L		28-SEP-06	CLL	R448664
Sodium (Na)	0.708		0.005	mg/L		28-SEP-06	CLL	R448664
Nickel (Ni)	0.00534		0.00006	mg/L		28-SEP-06	CLL	R448664
Lead (Pb)	0.00007		0.00005	mg/L		28-SEP-06	CLL	R448664
Antimony (Sb)	0.00034		0.00003	mg/L		28-SEP-06	CLL	R448664
Selenium (Se)	0.0003		0.0001	mg/L		28-SEP-06	CLL	R448664
Strontium (Sr)	0.0504		0.0001	mg/L		28-SEP-06	CLL	R448664
Uranium (U)	0.00045		0.00005	mg/L		28-SEP-06	CLL	R448664
Vanadium (V)	0.00031		0.00005	mg/L		28-SEP-06	CLL	R448664
Zinc (Zn)	0.0064		0.0008	mg/L		28-SEP-06	CLL	R448664

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L437043-4 3 DUPLICATE MACTUNG								
Sampled By: NOT PROVIDED on 20-SEP-06								
Matrix: WATER								
Ultra-Low Metals								
Ammonia-N	<0.005		0.005	mg/L		28-SEP-06	LDC	R447365
Total Organic Carbon	1		1	mg/L		04-OCT-06	ZOW	R449675
Routine Water Analysis - Low Level								
Chloride (Cl)	<1		1	mg/L		27-SEP-06	EOC	R446955
ICP metals for routine water								
Calcium (Ca)	16.9		0.5	mg/L		28-SEP-06	JWU	R447219
Potassium (K)	0.4		0.1	mg/L		28-SEP-06	JWU	R447219
Magnesium (Mg)	8.0		0.1	mg/L		28-SEP-06	JWU	R447219
Sodium (Na)	<1		1	mg/L		28-SEP-06	JWU	R447219
Ion Balance Calculation								
Ion Balance	98.2			%		02-OCT-06		
TDS (Calculated)	90			mg/L		02-OCT-06		
Hardness (as CaCO3)	75			mg/L		02-OCT-06		
Nitrate+Nitrite-N	<0.006		0.006	mg/L		26-SEP-06	SHC	R447739
Nitrate-N	<0.006		0.006	mg/L		26-SEP-06	SHC	R447739
Nitrite-N	<0.002		0.002	mg/L		26-SEP-06	SHC	R447739
Sulphate (SO4)	48.8		0.05	mg/L		28-SEP-06	JTV	R447908
pH, Conductivity and Total Alkalinity								
pH	7.7		0.1	pH		29-SEP-06	PTT	R447654
Conductivity (EC)	171		0.2	uS/cm		29-SEP-06	PTT	R447654
Bicarbonate (HCO3)	32		5	mg/L		29-SEP-06	PTT	R447654
Carbonate (CO3)	<5		5	mg/L		29-SEP-06	PTT	R447654
Hydroxide (OH)	<5		5	mg/L		29-SEP-06	PTT	R447654
Alkalinity, Total (as CaCO3)	26		5	mg/L		29-SEP-06	PTT	R447654
L437043-5 4 MACTUNG								
Sampled By: NOT PROVIDED on 20-SEP-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.046		0.005	mg/L		02-OCT-06	HAS	R448765
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Aluminum (Al)	0.0265		0.0003	mg/L		28-SEP-06	CLL	R448664
Arsenic (As)	0.00019		0.00003	mg/L		28-SEP-06	CLL	R448664
Boron (B)	0.005		0.001	mg/L		28-SEP-06	CLL	R448664
Barium (Ba)	0.0348		0.00005	mg/L		28-SEP-06	CLL	R448664
Beryllium (Be)	<0.0002		0.0002	mg/L		28-SEP-06	CLL	R448664
Calcium (Ca)	24.6		0.02	mg/L		28-SEP-06	CLL	R448664
Cadmium (Cd)	0.00223		0.00005	mg/L		28-SEP-06	CLL	R448664
Cobalt (Co)	0.0049		0.0001	mg/L		28-SEP-06	CLL	R448664
Chromium (Cr)	0.00026		0.00006	mg/L		28-SEP-06	CLL	R448664
Copper (Cu)	0.0023		0.0006	mg/L		28-SEP-06	CLL	R448664
Mercury (Hg)	<0.00002		0.00002	mg/L		28-SEP-06	CLL	R448664
Potassium (K)	0.48		0.02	mg/L		28-SEP-06	CLL	R448664
Magnesium (Mg)	8.89		0.004	mg/L		28-SEP-06	CLL	R448664
Manganese (Mn)	0.0655		0.0001	mg/L		28-SEP-06	CLL	R448664
Molybdenum (Mo)	0.00068		0.00006	mg/L		28-SEP-06	CLL	R448664
Sodium (Na)	0.865		0.005	mg/L		28-SEP-06	CLL	R448664
Nickel (Ni)	0.0417		0.00006	mg/L		28-SEP-06	CLL	R448664
Lead (Pb)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Antimony (Sb)	0.00032		0.00003	mg/L		28-SEP-06	CLL	R448664
Selenium (Se)	0.0013		0.0001	mg/L		28-SEP-06	CLL	R448664

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L437043-5 4 MACTUNG								
Sampled By: NOT PROVIDED on 20-SEP-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals - Dissolved								
Strontium (Sr)	0.0898		0.0001	mg/L		28-SEP-06	CLL	R448664
Uranium (U)	0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Vanadium (V)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Zinc (Zn)	0.104		0.0008	mg/L		28-SEP-06	CLL	R448664
Ultra-Low Metals								
Iron (Fe)	0.666		0.005	mg/L		02-OCT-06	HAS	R448765
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Aluminum (Al)	1.58		0.0003	mg/L		28-SEP-06	CLL	R448664
Arsenic (As)	0.00047		0.00003	mg/L		28-SEP-06	CLL	R448664
Boron (B)	0.005		0.001	mg/L		28-SEP-06	CLL	R448664
Barium (Ba)	0.0355		0.00005	mg/L		28-SEP-06	CLL	R448664
Beryllium (Be)	<0.0002		0.0002	mg/L		28-SEP-06	CLL	R448664
Calcium (Ca)	24.0		0.02	mg/L		28-SEP-06	CLL	R448664
Cadmium (Cd)	0.00234		0.00005	mg/L		28-SEP-06	CLL	R448664
Cobalt (Co)	0.0050		0.0001	mg/L		28-SEP-06	CLL	R448664
Chromium (Cr)	0.00065		0.00006	mg/L		28-SEP-06	CLL	R448664
Copper (Cu)	0.0135		0.0006	mg/L		28-SEP-06	CLL	R448664
Mercury (Hg)	<0.00002		0.00002	mg/L		28-SEP-06	CLL	R448664
Potassium (K)	0.50		0.02	mg/L		28-SEP-06	CLL	R448664
Magnesium (Mg)	8.75		0.004	mg/L		28-SEP-06	CLL	R448664
Manganese (Mn)	0.0662		0.0001	mg/L		28-SEP-06	CLL	R448664
Molybdenum (Mo)	0.00077		0.00006	mg/L		28-SEP-06	CLL	R448664
Sodium (Na)	0.746		0.005	mg/L		06-OCT-06	FLW	R453097
Nickel (Ni)	0.0415		0.00006	mg/L		28-SEP-06	CLL	R448664
Lead (Pb)	0.00007		0.00005	mg/L		28-SEP-06	CLL	R448664
Antimony (Sb)	0.00029		0.00003	mg/L		28-SEP-06	CLL	R448664
Selenium (Se)	0.0013		0.0001	mg/L		28-SEP-06	CLL	R448664
Strontium (Sr)	0.0870		0.0001	mg/L		28-SEP-06	CLL	R448664
Uranium (U)	0.00101		0.00005	mg/L		28-SEP-06	CLL	R448664
Vanadium (V)	0.00073		0.00005	mg/L		28-SEP-06	CLL	R448664
Zinc (Zn)	0.124		0.0008	mg/L		28-SEP-06	CLL	R448664
Ammonia-N	<0.005		0.005	mg/L		28-SEP-06	LDC	R447365
Total Organic Carbon	1		1	mg/L		04-OCT-06	ZOW	R449675
Routine Water Analysis - Low Level								
Chloride (Cl)	<1		1	mg/L		27-SEP-06	EOC	R446955
ICP metals for routine water								
Calcium (Ca)	28.0		0.5	mg/L		29-SEP-06	MLH	R447862
Potassium (K)	0.1		0.1	mg/L		29-SEP-06	MLH	R447862
Magnesium (Mg)	10.1		0.1	mg/L		29-SEP-06	MLH	R447862
Sodium (Na)	2		1	mg/L		29-SEP-06	MLH	R447862
Ion Balance Calculation								
Ion Balance	111	BL:INT		%		02-OCT-06		
TDS (Calculated)	132			mg/L		02-OCT-06		
Hardness (as CaCO3)	112			mg/L		02-OCT-06		
Nitrate+Nitrite-N	0.020		0.006	mg/L		26-SEP-06	SHC	R447739
Nitrate-N	0.020		0.006	mg/L		26-SEP-06	SHC	R447739
Nitrite-N	<0.002		0.002	mg/L		26-SEP-06	SHC	R447739
Sulphate (SO4)	76.9		0.05	mg/L		28-SEP-06	JTV	R447908
pH, Conductivity and Total Alkalinity								

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L437043-5 4 MACTUNG								
Sampled By: NOT PROVIDED on 20-SEP-06								
Matrix: WATER								
Routine Water Analysis - Low Level								
pH, Conductivity and Total Alkalinity								
pH	7.7		0.1	pH		29-SEP-06	PTT	R447654
Conductivity (EC)	234		0.2	uS/cm		29-SEP-06	PTT	R447654
Bicarbonate (HCO3)	30		5	mg/L		29-SEP-06	PTT	R447654
Carbonate (CO3)	<5		5	mg/L		29-SEP-06	PTT	R447654
Hydroxide (OH)	<5		5	mg/L		29-SEP-06	PTT	R447654
Alkalinity, Total (as CaCO3)	24		5	mg/L		29-SEP-06	PTT	R447654
L437043-6 5 MACTUNG								
Sampled By: NOT PROVIDED on 20-SEP-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.045		0.005	mg/L		02-OCT-06	HAS	R448765
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Aluminum (Al)	0.0104		0.0003	mg/L		28-SEP-06	CLL	R448664
Arsenic (As)	0.00064		0.00003	mg/L		28-SEP-06	CLL	R448664
Boron (B)	0.001		0.001	mg/L		28-SEP-06	CLL	R448664
Barium (Ba)	0.0499		0.00005	mg/L		28-SEP-06	CLL	R448664
Beryllium (Be)	<0.0002		0.0002	mg/L		28-SEP-06	CLL	R448664
Calcium (Ca)	32.6		0.02	mg/L		28-SEP-06	CLL	R448664
Cadmium (Cd)	0.00035		0.00005	mg/L		28-SEP-06	CLL	R448664
Cobalt (Co)	0.0004		0.0001	mg/L		28-SEP-06	CLL	R448664
Chromium (Cr)	0.00044		0.00006	mg/L		28-SEP-06	CLL	R448664
Copper (Cu)	0.0009		0.0006	mg/L		28-SEP-06	CLL	R448664
Mercury (Hg)	<0.00002		0.00002	mg/L		28-SEP-06	CLL	R448664
Potassium (K)	0.74		0.02	mg/L		28-SEP-06	CLL	R448664
Magnesium (Mg)	4.78		0.004	mg/L		28-SEP-06	CLL	R448664
Manganese (Mn)	0.0110		0.0001	mg/L		28-SEP-06	CLL	R448664
Molybdenum (Mo)	0.00180		0.00006	mg/L		28-SEP-06	CLL	R448664
Sodium (Na)	0.557		0.005	mg/L		28-SEP-06	CLL	R448664
Nickel (Ni)	0.0102		0.00006	mg/L		28-SEP-06	CLL	R448664
Lead (Pb)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Antimony (Sb)	0.00047		0.00003	mg/L		28-SEP-06	CLL	R448664
Selenium (Se)	0.0015		0.0001	mg/L		28-SEP-06	CLL	R448664
Strontium (Sr)	0.0955		0.0001	mg/L		28-SEP-06	CLL	R448664
Uranium (U)	0.00186		0.00005	mg/L		28-SEP-06	CLL	R448664
Vanadium (V)	0.00006		0.00005	mg/L		28-SEP-06	CLL	R448664
Zinc (Zn)	0.0248		0.0008	mg/L		28-SEP-06	CLL	R448664
Ultra-Low Metals								
Iron (Fe)	0.102		0.005	mg/L		02-OCT-06	HAS	R448765
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Aluminum (Al)	0.0301		0.0003	mg/L		28-SEP-06	CLL	R448664
Arsenic (As)	0.00098		0.00003	mg/L		28-SEP-06	CLL	R448664
Boron (B)	<0.001		0.001	mg/L		28-SEP-06	CLL	R448664
Barium (Ba)	0.0498		0.00005	mg/L		28-SEP-06	CLL	R448664
Beryllium (Be)	<0.0002		0.0002	mg/L		28-SEP-06	CLL	R448664
Calcium (Ca)	32.3		0.02	mg/L		28-SEP-06	CLL	R448664
Cadmium (Cd)	0.00046		0.00005	mg/L		28-SEP-06	CLL	R448664
Cobalt (Co)	0.0004		0.0001	mg/L		28-SEP-06	CLL	R448664
Chromium (Cr)	0.00039		0.00006	mg/L		28-SEP-06	CLL	R448664
Copper (Cu)	0.0008		0.0006	mg/L		28-SEP-06	CLL	R448664

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L437043-6 5 MACTUNG								
Sampled By: NOT PROVIDED on 20-SEP-06								
Matrix: WATER								
Ultra-Low Metals								
Ultra-Low Metals								
Mercury (Hg)	<0.00002		0.00002	mg/L		28-SEP-06	CLL	R448664
Potassium (K)	0.75		0.02	mg/L		28-SEP-06	CLL	R448664
Magnesium (Mg)	4.75		0.004	mg/L		28-SEP-06	CLL	R448664
Manganese (Mn)	0.0113		0.0001	mg/L		28-SEP-06	CLL	R448664
Molybdenum (Mo)	0.00180		0.00006	mg/L		28-SEP-06	CLL	R448664
Sodium (Na)	0.540		0.005	mg/L		28-SEP-06	CLL	R448664
Nickel (Ni)	0.0100		0.00006	mg/L		28-SEP-06	CLL	R448664
Lead (Pb)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Antimony (Sb)	0.00036		0.00003	mg/L		28-SEP-06	CLL	R448664
Selenium (Se)	0.0015		0.0001	mg/L		28-SEP-06	CLL	R448664
Strontium (Sr)	0.0970		0.0001	mg/L		28-SEP-06	CLL	R448664
Uranium (U)	0.00195		0.00005	mg/L		28-SEP-06	CLL	R448664
Vanadium (V)	0.00011		0.00005	mg/L		28-SEP-06	CLL	R448664
Zinc (Zn)	0.0239		0.0008	mg/L		28-SEP-06	CLL	R448664
Ammonia-N	<0.005		0.005	mg/L		28-SEP-06	LDC	R447365
Total Organic Carbon	<1		1	mg/L		04-OCT-06	ZOW	R449675
Routine Water Analysis - Low Level								
Chloride (Cl)	<1		1	mg/L		27-SEP-06	EOC	R446955
ICP metals for routine water								
Calcium (Ca)	38.4		0.5	mg/L		28-SEP-06	JWU	R447219
Potassium (K)	0.9		0.1	mg/L		28-SEP-06	JWU	R447219
Magnesium (Mg)	5.4		0.1	mg/L		28-SEP-06	JWU	R447219
Sodium (Na)	<1		1	mg/L		28-SEP-06	JWU	R447219
Ion Balance Calculation								
Ion Balance	108			%		02-OCT-06		
TDS (Calculated)	133			mg/L		02-OCT-06		
Hardness (as CaCO3)	118			mg/L		02-OCT-06		
Nitrate+Nitrite-N	0.023		0.006	mg/L		26-SEP-06	SHC	R447739
Nitrate-N	0.023		0.006	mg/L		26-SEP-06	SHC	R447739
Nitrite-N	<0.002		0.002	mg/L		26-SEP-06	SHC	R447739
Sulphate (SO4)	58.6		0.05	mg/L		28-SEP-06	JTV	R447908
pH, Conductivity and Total Alkalinity								
pH	8.0		0.1	pH		29-SEP-06	PTT	R447654
Conductivity (EC)	232		0.2	uS/cm		29-SEP-06	PTT	R447654
Bicarbonate (HCO3)	60		5	mg/L		29-SEP-06	PTT	R447654
Carbonate (CO3)	<5		5	mg/L		29-SEP-06	PTT	R447654
Hydroxide (OH)	<5		5	mg/L		29-SEP-06	PTT	R447654
Alkalinity, Total (as CaCO3)	49		5	mg/L		29-SEP-06	PTT	R447654
L437043-7 6 MACTUNG								
Sampled By: NOT PROVIDED on 20-SEP-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.008		0.005	mg/L		02-OCT-06	HAS	R448765
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Aluminum (Al)	0.0366		0.0003	mg/L		28-SEP-06	CLL	R448664
Arsenic (As)	0.00076		0.00003	mg/L		28-SEP-06	CLL	R448664
Boron (B)	0.001		0.001	mg/L		28-SEP-06	CLL	R448664
Barium (Ba)	0.0547		0.00005	mg/L		28-SEP-06	CLL	R448664
Beryllium (Be)	<0.0002		0.0002	mg/L		28-SEP-06	CLL	R448664

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L437043-7 6 MACTUNG								
Sampled By: NOT PROVIDED on 20-SEP-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals - Dissolved								
Calcium (Ca)	28.4		0.02	mg/L		28-SEP-06	CLL	R448664
Cadmium (Cd)	0.00023		0.00005	mg/L		28-SEP-06	CLL	R448664
Cobalt (Co)	0.0027		0.0001	mg/L		28-SEP-06	CLL	R448664
Chromium (Cr)	0.00041		0.00006	mg/L		28-SEP-06	CLL	R448664
Copper (Cu)	0.0007		0.0006	mg/L		28-SEP-06	CLL	R448664
Mercury (Hg)	<0.00002		0.00002	mg/L		28-SEP-06	CLL	R448664
Potassium (K)	0.72		0.02	mg/L		28-SEP-06	CLL	R448664
Magnesium (Mg)	4.32		0.004	mg/L		28-SEP-06	CLL	R448664
Manganese (Mn)	0.0268		0.0001	mg/L		28-SEP-06	CLL	R448664
Molybdenum (Mo)	0.00149		0.00006	mg/L		28-SEP-06	CLL	R448664
Sodium (Na)	0.495		0.005	mg/L		28-SEP-06	CLL	R448664
Nickel (Ni)	0.00926		0.00006	mg/L		28-SEP-06	CLL	R448664
Lead (Pb)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Antimony (Sb)	0.00028		0.00003	mg/L		28-SEP-06	CLL	R448664
Selenium (Se)	0.0011		0.0001	mg/L		28-SEP-06	CLL	R448664
Strontium (Sr)	0.0816		0.0001	mg/L		28-SEP-06	CLL	R448664
Uranium (U)	0.00108		0.00005	mg/L		28-SEP-06	CLL	R448664
Vanadium (V)	0.00008		0.00005	mg/L		28-SEP-06	CLL	R448664
Zinc (Zn)	0.0151		0.0008	mg/L		28-SEP-06	CLL	R448664
Ultra-Low Metals								
Iron (Fe)	0.099		0.005	mg/L		02-OCT-06	HAS	R448765
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Aluminum (Al)	0.102		0.0003	mg/L		28-SEP-06	CLL	R448664
Arsenic (As)	0.00106		0.00003	mg/L		28-SEP-06	CLL	R448664
Boron (B)	0.001		0.001	mg/L		28-SEP-06	CLL	R448664
Barium (Ba)	0.0560		0.00005	mg/L		28-SEP-06	CLL	R448664
Beryllium (Be)	<0.0002		0.0002	mg/L		28-SEP-06	CLL	R448664
Calcium (Ca)	28.2		0.02	mg/L		28-SEP-06	CLL	R448664
Cadmium (Cd)	0.00029		0.00005	mg/L		28-SEP-06	CLL	R448664
Cobalt (Co)	0.0027		0.0001	mg/L		28-SEP-06	CLL	R448664
Chromium (Cr)	0.00040		0.00006	mg/L		28-SEP-06	CLL	R448664
Copper (Cu)	0.0012		0.0006	mg/L		28-SEP-06	CLL	R448664
Mercury (Hg)	<0.00002		0.00002	mg/L		28-SEP-06	CLL	R448664
Potassium (K)	0.75		0.02	mg/L		28-SEP-06	CLL	R448664
Magnesium (Mg)	4.30		0.004	mg/L		28-SEP-06	CLL	R448664
Manganese (Mn)	0.0272		0.0001	mg/L		28-SEP-06	CLL	R448664
Molybdenum (Mo)	0.00146		0.00006	mg/L		28-SEP-06	CLL	R448664
Sodium (Na)	0.479		0.005	mg/L		28-SEP-06	CLL	R448664
Nickel (Ni)	0.00930		0.00006	mg/L		28-SEP-06	CLL	R448664
Lead (Pb)	0.00007		0.00005	mg/L		28-SEP-06	CLL	R448664
Antimony (Sb)	0.00025		0.00003	mg/L		28-SEP-06	CLL	R448664
Selenium (Se)	0.0011		0.0001	mg/L		28-SEP-06	CLL	R448664
Strontium (Sr)	0.0813		0.0001	mg/L		28-SEP-06	CLL	R448664
Uranium (U)	0.00116		0.00005	mg/L		28-SEP-06	CLL	R448664
Vanadium (V)	0.00025		0.00005	mg/L		28-SEP-06	CLL	R448664
Zinc (Zn)	0.0154		0.0008	mg/L		28-SEP-06	CLL	R448664
Ammonia-N	<0.005		0.005	mg/L		28-SEP-06	LDC	R447365
Total Organic Carbon	<1		1	mg/L		04-OCT-06	ZOW	R449675
Routine Water Analysis - Low Level								

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L437043-7 6 MACTUNG								
Sampled By: NOT PROVIDED on 20-SEP-06								
Matrix: WATER								
Routine Water Analysis - Low Level								
Chloride (Cl)	<1		1	mg/L		27-SEP-06	EOC	R446955
ICP metals for routine water								
Calcium (Ca)	33.1		0.5	mg/L		28-SEP-06	JWU	R447219
Potassium (K)	0.9		0.1	mg/L		28-SEP-06	JWU	R447219
Magnesium (Mg)	5.0		0.1	mg/L		28-SEP-06	JWU	R447219
Sodium (Na)	<1		1	mg/L		28-SEP-06	JWU	R447219
Ion Balance Calculation								
Ion Balance	110			%		02-OCT-06		
TDS (Calculated)	114			mg/L		02-OCT-06		
Hardness (as CaCO3)	103			mg/L		02-OCT-06		
Nitrate+Nitrite-N	0.008		0.006	mg/L		26-SEP-06	SHC	R447739
Nitrate-N	0.008		0.006	mg/L		26-SEP-06	SHC	R447739
Nitrite-N	<0.002		0.002	mg/L		26-SEP-06	SHC	R447739
Sulphate (SO4)	47.4		0.05	mg/L		28-SEP-06	JTV	R447908
pH, Conductivity and Total Alkalinity								
pH	8.0		0.1	pH		29-SEP-06	PTT	R447654
Conductivity (EC)	203		0.2	uS/cm		29-SEP-06	PTT	R447654
Bicarbonate (HCO3)	56		5	mg/L		29-SEP-06	PTT	R447654
Carbonate (CO3)	<5		5	mg/L		29-SEP-06	PTT	R447654
Hydroxide (OH)	<5		5	mg/L		29-SEP-06	PTT	R447654
Alkalinity, Total (as CaCO3)	46		5	mg/L		29-SEP-06	PTT	R447654
L437043-8 7 MACTUNG								
Sampled By: NOT PROVIDED on 20-SEP-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	0.241		0.005	mg/L		02-OCT-06	HAS	R448765
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Aluminum (Al)	0.0131		0.0003	mg/L		28-SEP-06	CLL	R448664
Arsenic (As)	0.00018		0.00003	mg/L		28-SEP-06	CLL	R448664
Boron (B)	0.002		0.001	mg/L		28-SEP-06	CLL	R448664
Barium (Ba)	0.0511		0.00005	mg/L		28-SEP-06	CLL	R448664
Beryllium (Be)	<0.0002		0.0002	mg/L		28-SEP-06	CLL	R448664
Calcium (Ca)	21.2		0.02	mg/L		28-SEP-06	CLL	R448664
Cadmium (Cd)	0.00506		0.00005	mg/L		28-SEP-06	CLL	R448664
Cobalt (Co)	0.0125		0.0001	mg/L		28-SEP-06	CLL	R448664
Chromium (Cr)	0.00013		0.00006	mg/L		28-SEP-06	CLL	R448664
Copper (Cu)	0.0075		0.0006	mg/L		28-SEP-06	CLL	R448664
Mercury (Hg)	<0.00002		0.00002	mg/L		28-SEP-06	CLL	R448664
Potassium (K)	0.51		0.02	mg/L		28-SEP-06	CLL	R448664
Magnesium (Mg)	5.11		0.004	mg/L		28-SEP-06	CLL	R448664
Manganese (Mn)	0.135		0.0001	mg/L		28-SEP-06	CLL	R448664
Molybdenum (Mo)	0.00036		0.00006	mg/L		28-SEP-06	CLL	R448664
Sodium (Na)	0.425		0.005	mg/L		28-SEP-06	CLL	R448664
Nickel (Ni)	0.0997		0.00006	mg/L		28-SEP-06	CLL	R448664
Lead (Pb)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Antimony (Sb)	0.00034		0.00003	mg/L		28-SEP-06	CLL	R448664
Selenium (Se)	0.0009		0.0001	mg/L		28-SEP-06	CLL	R448664
Strontium (Sr)	0.0634		0.0001	mg/L		28-SEP-06	CLL	R448664
Uranium (U)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Vanadium (V)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L437043-8 7 MACTUNG								
Sampled By: NOT PROVIDED on 20-SEP-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals - Dissolved								
Zinc (Zn)	0.347		0.0008	mg/L		28-SEP-06	CLL	R448664
Ultra-Low Metals								
Iron (Fe)	1.45		0.005	mg/L		02-OCT-06	HAS	R448765
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Aluminum (Al)	1.92		0.0003	mg/L		28-SEP-06	CLL	R448664
Arsenic (As)	0.00069		0.00003	mg/L		28-SEP-06	CLL	R448664
Boron (B)	0.001		0.001	mg/L		28-SEP-06	CLL	R448664
Barium (Ba)	0.0516		0.00005	mg/L		28-SEP-06	CLL	R448664
Beryllium (Be)	0.0002		0.0002	mg/L		28-SEP-06	CLL	R448664
Calcium (Ca)	21.2		0.02	mg/L		28-SEP-06	CLL	R448664
Cadmium (Cd)	0.00516		0.00005	mg/L		28-SEP-06	CLL	R448664
Cobalt (Co)	0.0126		0.0001	mg/L		28-SEP-06	CLL	R448664
Chromium (Cr)	0.00097		0.00006	mg/L		28-SEP-06	CLL	R448664
Copper (Cu)	0.0381		0.0006	mg/L		28-SEP-06	CLL	R448664
Mercury (Hg)	<0.00002		0.00002	mg/L		28-SEP-06	CLL	R448664
Potassium (K)	0.51		0.02	mg/L		28-SEP-06	CLL	R448664
Magnesium (Mg)	5.11		0.004	mg/L		28-SEP-06	CLL	R448664
Manganese (Mn)	0.138		0.0001	mg/L		28-SEP-06	CLL	R448664
Molybdenum (Mo)	0.00062		0.00006	mg/L		28-SEP-06	CLL	R448664
Sodium (Na)	0.416		0.005	mg/L		28-SEP-06	CLL	R448664
Nickel (Ni)	0.101		0.00006	mg/L		28-SEP-06	CLL	R448664
Lead (Pb)	0.00015		0.00005	mg/L		28-SEP-06	CLL	R448664
Antimony (Sb)	0.00029		0.00003	mg/L		28-SEP-06	CLL	R448664
Selenium (Se)	0.0010		0.0001	mg/L		28-SEP-06	CLL	R448664
Strontium (Sr)	0.0635		0.0001	mg/L		28-SEP-06	CLL	R448664
Uranium (U)	0.00098		0.00005	mg/L		28-SEP-06	CLL	R448664
Vanadium (V)	0.00268		0.00005	mg/L		28-SEP-06	CLL	R448664
Zinc (Zn)	0.367		0.0008	mg/L		28-SEP-06	CLL	R448664
Ammonia-N	<0.005		0.005	mg/L		28-SEP-06	LDC	R447365
Total Organic Carbon	<1		1	mg/L		04-OCT-06	ZOW	R449675
Routine Water Analysis - Low Level								
Chloride (Cl)	<1		1	mg/L		27-SEP-06	EOC	R446955
ICP metals for routine water								
Calcium (Ca)	25.1		0.5	mg/L		28-SEP-06	JWU	R447219
Potassium (K)	0.6		0.1	mg/L		28-SEP-06	JWU	R447219
Magnesium (Mg)	5.9		0.1	mg/L		28-SEP-06	JWU	R447219
Sodium (Na)	<1		1	mg/L		28-SEP-06	JWU	R447219
Ion Balance Calculation								
Ion Balance	111	BL:INT		%		02-OCT-06		
TDS (Calculated)	105			mg/L		02-OCT-06		
Hardness (as CaCO3)	87			mg/L		02-OCT-06		
Nitrate+Nitrite-N	0.031		0.006	mg/L		26-SEP-06	SHC	R447739
Nitrate-N	0.031		0.006	mg/L		26-SEP-06	SHC	R447739
Nitrite-N	<0.002		0.002	mg/L		26-SEP-06	SHC	R447739
Sulphate (SO4)	69.5		0.05	mg/L		28-SEP-06	JTV	R447908
pH, Conductivity and Total Alkalinity								
pH	7.1		0.1	pH		29-SEP-06	PTT	R447654
Conductivity (EC)	189		0.2	uS/cm		29-SEP-06	PTT	R447654
Bicarbonate (HCO3)	8		5	mg/L		29-SEP-06	PTT	R447654

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L437043-8 7 MACTUNG								
Sampled By: NOT PROVIDED on 20-SEP-06								
Matrix: WATER								
Routine Water Analysis - Low Level								
pH, Conductivity and Total Alkalinity								
Carbonate (CO3)	<5		5	mg/L		29-SEP-06	PTT	R447654
Hydroxide (OH)	<5		5	mg/L		29-SEP-06	PTT	R447654
Alkalinity, Total (as CaCO3)	6		5	mg/L		29-SEP-06	PTT	R447654
L437043-9 8 MACTUNG								
Sampled By: NOT PROVIDED on 20-SEP-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	<0.005		0.005	mg/L		02-OCT-06	HAS	R448765
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Aluminum (Al)	0.0241		0.0003	mg/L		28-SEP-06	CLL	R448664
Arsenic (As)	0.00336		0.00003	mg/L		28-SEP-06	CLL	R448664
Boron (B)	0.001		0.001	mg/L		28-SEP-06	CLL	R448664
Barium (Ba)	0.0115		0.00005	mg/L		28-SEP-06	CLL	R448664
Beryllium (Be)	<0.0002		0.0002	mg/L		28-SEP-06	CLL	R448664
Calcium (Ca)	10.4		0.02	mg/L		28-SEP-06	CLL	R448664
Cadmium (Cd)	0.00006		0.00005	mg/L		28-SEP-06	CLL	R448664
Cobalt (Co)	0.0006		0.0001	mg/L		28-SEP-06	CLL	R448664
Chromium (Cr)	<0.00006		0.00006	mg/L		28-SEP-06	CLL	R448664
Copper (Cu)	0.0008		0.0006	mg/L		28-SEP-06	CLL	R448664
Mercury (Hg)	<0.00002		0.00002	mg/L		28-SEP-06	CLL	R448664
Potassium (K)	0.18		0.02	mg/L		28-SEP-06	CLL	R448664
Magnesium (Mg)	0.785		0.004	mg/L		28-SEP-06	CLL	R448664
Manganese (Mn)	0.0343		0.0001	mg/L		28-SEP-06	CLL	R448664
Molybdenum (Mo)	0.00148		0.00006	mg/L		28-SEP-06	CLL	R448664
Sodium (Na)	0.326		0.005	mg/L		28-SEP-06	CLL	R448664
Nickel (Ni)	0.00379		0.00006	mg/L		28-SEP-06	CLL	R448664
Lead (Pb)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Antimony (Sb)	0.00046		0.00003	mg/L		28-SEP-06	CLL	R448664
Selenium (Se)	0.0003		0.0001	mg/L		28-SEP-06	CLL	R448664
Strontium (Sr)	0.0208		0.0001	mg/L		28-SEP-06	CLL	R448664
Uranium (U)	0.00021		0.00005	mg/L		28-SEP-06	CLL	R448664
Vanadium (V)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Zinc (Zn)	0.0056		0.0008	mg/L		28-SEP-06	CLL	R448664
Ultra-Low Metals								
Iron (Fe)	0.007		0.005	mg/L		02-OCT-06	HAS	R448765
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Aluminum (Al)	0.0376		0.0003	mg/L		28-SEP-06	CLL	R448664
Arsenic (As)	0.00361		0.00003	mg/L		28-SEP-06	CLL	R448664
Boron (B)	<0.001		0.001	mg/L		28-SEP-06	CLL	R448664
Barium (Ba)	0.0113		0.00005	mg/L		28-SEP-06	CLL	R448664
Beryllium (Be)	<0.0002		0.0002	mg/L		28-SEP-06	CLL	R448664
Calcium (Ca)	9.99		0.02	mg/L		28-SEP-06	CLL	R448664
Cadmium (Cd)	0.00006		0.00005	mg/L		28-SEP-06	CLL	R448664
Cobalt (Co)	0.0006		0.0001	mg/L		28-SEP-06	CLL	R448664
Chromium (Cr)	<0.00006		0.00006	mg/L		28-SEP-06	CLL	R448664
Copper (Cu)	0.0009		0.0006	mg/L		28-SEP-06	CLL	R448664
Mercury (Hg)	<0.00002		0.00002	mg/L		28-SEP-06	CLL	R448664
Potassium (K)	0.16		0.02	mg/L		28-SEP-06	CLL	R448664
Magnesium (Mg)	0.778		0.004	mg/L		28-SEP-06	CLL	R448664

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L437043-9 8 MACTUNG								
Sampled By: NOT PROVIDED on 20-SEP-06								
Matrix: WATER								
Ultra-Low Metals								
Ultra-Low Metals								
Manganese (Mn)	0.0354		0.0001	mg/L		28-SEP-06	CLL	R448664
Molybdenum (Mo)	0.00146		0.00006	mg/L		28-SEP-06	CLL	R448664
Sodium (Na)	0.312		0.005	mg/L		28-SEP-06	CLL	R448664
Nickel (Ni)	0.00379		0.00006	mg/L		28-SEP-06	CLL	R448664
Lead (Pb)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Antimony (Sb)	0.00053		0.00003	mg/L		28-SEP-06	CLL	R448664
Selenium (Se)	0.0003		0.0001	mg/L		28-SEP-06	CLL	R448664
Strontium (Sr)	0.0203		0.0001	mg/L		28-SEP-06	CLL	R448664
Uranium (U)	0.00041		0.00005	mg/L		28-SEP-06	CLL	R448664
Vanadium (V)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Zinc (Zn)	0.0044		0.0008	mg/L		28-SEP-06	CLL	R448664
Ammonia-N	<0.005		0.005	mg/L		28-SEP-06	LDC	R447365
Total Organic Carbon	<1		1	mg/L		04-OCT-06	ZOW	R449675
Routine Water Analysis - Low Level								
Chloride (Cl)	<1		1	mg/L		27-SEP-06	EOC	R446955
ICP metals for routine water								
Calcium (Ca)	11.7		0.5	mg/L		28-SEP-06	JWU	R447219
Potassium (K)	0.2		0.1	mg/L		28-SEP-06	JWU	R447219
Magnesium (Mg)	0.8		0.1	mg/L		28-SEP-06	JWU	R447219
Sodium (Na)	<1		1	mg/L		28-SEP-06	JWU	R447219
Ion Balance Calculation								
Ion Balance	Low EC			%		02-OCT-06		
TDS (Calculated)	38			mg/L		02-OCT-06		
Hardness (as CaCO3)	33			mg/L		02-OCT-06		
Nitrate+Nitrite-N	<0.006		0.006	mg/L		26-SEP-06	SHC	R447739
Nitrate-N	<0.006		0.006	mg/L		26-SEP-06	SHC	R447739
Nitrite-N	<0.002		0.002	mg/L		26-SEP-06	SHC	R447739
Sulphate (SO4)	20.0		0.05	mg/L		28-SEP-06	JTV	R447908
pH, Conductivity and Total Alkalinity								
pH	7.3		0.1	pH		29-SEP-06	PTT	R447654
Conductivity (EC)	74.8		0.2	uS/cm		29-SEP-06	PTT	R447654
Bicarbonate (HCO3)	9		5	mg/L		29-SEP-06	PTT	R447654
Carbonate (CO3)	<5		5	mg/L		29-SEP-06	PTT	R447654
Hydroxide (OH)	<5		5	mg/L		29-SEP-06	PTT	R447654
Alkalinity, Total (as CaCO3)	8		5	mg/L		29-SEP-06	PTT	R447654
L437043-10 8 DUPLICATE MACTUNG								
Sampled By: NOT PROVIDED on 20-SEP-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	<0.005		0.005	mg/L		02-OCT-06	HAS	R448765
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Aluminum (Al)	0.0242		0.0003	mg/L		28-SEP-06	CLL	R448664
Arsenic (As)	0.00325		0.00003	mg/L		28-SEP-06	CLL	R448664
Boron (B)	0.001		0.001	mg/L		28-SEP-06	CLL	R448664
Barium (Ba)	0.0113		0.00005	mg/L		28-SEP-06	CLL	R448664
Beryllium (Be)	<0.0002		0.0002	mg/L		28-SEP-06	CLL	R448664
Calcium (Ca)	10.1		0.02	mg/L		28-SEP-06	CLL	R448664
Cadmium (Cd)	0.00006		0.00005	mg/L		28-SEP-06	CLL	R448664
Cobalt (Co)	0.0006		0.0001	mg/L		28-SEP-06	CLL	R448664

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L437043-10 8 DUPLICATE MACTUNG								
Sampled By: NOT PROVIDED on 20-SEP-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals - Dissolved								
Chromium (Cr)	<0.00006		0.00006	mg/L		28-SEP-06	CLL	R448664
Copper (Cu)	0.0007		0.0006	mg/L		06-OCT-06	FLW	R453097
Mercury (Hg)	<0.00002		0.00002	mg/L		28-SEP-06	CLL	R448664
Potassium (K)	0.17		0.02	mg/L		28-SEP-06	CLL	R448664
Magnesium (Mg)	0.790		0.004	mg/L		28-SEP-06	CLL	R448664
Manganese (Mn)	0.0341		0.0001	mg/L		28-SEP-06	CLL	R448664
Molybdenum (Mo)	0.00150		0.00006	mg/L		28-SEP-06	CLL	R448664
Sodium (Na)	0.325		0.005	mg/L		28-SEP-06	CLL	R448664
Nickel (Ni)	0.00384		0.00006	mg/L		28-SEP-06	CLL	R448664
Lead (Pb)	0.00010		0.00005	mg/L		28-SEP-06	CLL	R448664
Antimony (Sb)	0.00070		0.00003	mg/L		28-SEP-06	CLL	R448664
Selenium (Se)	0.0003		0.0001	mg/L		28-SEP-06	CLL	R448664
Strontium (Sr)	0.0207		0.0001	mg/L		28-SEP-06	CLL	R448664
Uranium (U)	0.00027		0.00005	mg/L		28-SEP-06	CLL	R448664
Vanadium (V)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Ultra-Low Metals								
Iron (Fe)	0.018		0.005	mg/L		02-OCT-06	HAS	R448765
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Aluminum (Al)	0.0445		0.0003	mg/L		28-SEP-06	CLL	R448664
Arsenic (As)	0.00366		0.00003	mg/L		28-SEP-06	CLL	R448664
Boron (B)	<0.001		0.001	mg/L		28-SEP-06	CLL	R448664
Barium (Ba)	0.0114		0.00005	mg/L		28-SEP-06	CLL	R448664
Beryllium (Be)	<0.0002		0.0002	mg/L		28-SEP-06	CLL	R448664
Calcium (Ca)	9.90		0.02	mg/L		28-SEP-06	CLL	R448664
Cadmium (Cd)	0.00007		0.00005	mg/L		28-SEP-06	CLL	R448664
Cobalt (Co)	0.0006		0.0001	mg/L		28-SEP-06	CLL	R448664
Chromium (Cr)	<0.00006		0.00006	mg/L		28-SEP-06	CLL	R448664
Copper (Cu)	0.0010		0.0006	mg/L		28-SEP-06	CLL	R448664
Mercury (Hg)	<0.00002		0.00002	mg/L		28-SEP-06	CLL	R448664
Potassium (K)	0.16		0.02	mg/L		28-SEP-06	CLL	R448664
Magnesium (Mg)	0.780		0.004	mg/L		28-SEP-06	CLL	R448664
Manganese (Mn)	0.0369		0.0001	mg/L		28-SEP-06	CLL	R448664
Molybdenum (Mo)	0.00145		0.00006	mg/L		28-SEP-06	CLL	R448664
Sodium (Na)	0.312		0.005	mg/L		28-SEP-06	CLL	R448664
Nickel (Ni)	0.00386		0.00006	mg/L		28-SEP-06	CLL	R448664
Lead (Pb)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Antimony (Sb)	0.00058		0.00003	mg/L		28-SEP-06	CLL	R448664
Selenium (Se)	0.0003		0.0001	mg/L		28-SEP-06	CLL	R448664
Strontium (Sr)	0.0202		0.0001	mg/L		28-SEP-06	CLL	R448664
Uranium (U)	0.00043		0.00005	mg/L		28-SEP-06	CLL	R448664
Vanadium (V)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Zinc (Zn)	0.0038		0.0008	mg/L		28-SEP-06	CLL	R448664
Ammonia-N	<0.005		0.005	mg/L		28-SEP-06	LDC	R447365
Total Organic Carbon	<1		1	mg/L		04-OCT-06	ZOW	R449675
Routine Water Analysis - Low Level								
Chloride (Cl)	<1		1	mg/L		27-SEP-06	EOC	R446955
ICP metals for routine water								
Calcium (Ca)	10.3		0.5	mg/L		29-SEP-06	MLH	R447862
Potassium (K)	0.1		0.1	mg/L		29-SEP-06	MLH	R447862

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L437043-10 8 DUPLICATE MACTUNG								
Sampled By: NOT PROVIDED on 20-SEP-06								
Matrix: WATER								
Routine Water Analysis - Low Level								
ICP metals for routine water								
Magnesium (Mg)	0.8		0.1	mg/L		29-SEP-06	MLH	R447862
Sodium (Na)	<1		1	mg/L		29-SEP-06	MLH	R447862
Ion Balance Calculation								
Ion Balance	Low EC			%		02-OCT-06		
TDS (Calculated)	36			mg/L		02-OCT-06		
Hardness (as CaCO3)	29			mg/L		02-OCT-06		
Nitrate+Nitrite-N	<0.006		0.006	mg/L		26-SEP-06	SHC	R447739
Nitrate-N	<0.006		0.006	mg/L		26-SEP-06	SHC	R447739
Nitrite-N	<0.002		0.002	mg/L		26-SEP-06	SHC	R447739
Sulphate (SO4)	20.0		0.05	mg/L		28-SEP-06	JTV	R447908
pH, Conductivity and Total Alkalinity								
pH	7.3		0.1	pH		29-SEP-06	PTT	R447654
Conductivity (EC)	74.8		0.2	uS/cm		29-SEP-06	PTT	R447654
Bicarbonate (HCO3)	10		5	mg/L		29-SEP-06	PTT	R447654
Carbonate (CO3)	<5		5	mg/L		29-SEP-06	PTT	R447654
Hydroxide (OH)	<5		5	mg/L		29-SEP-06	PTT	R447654
Alkalinity, Total (as CaCO3)	8		5	mg/L		29-SEP-06	PTT	R447654
L437043-11 9								
Sampled By: NOT PROVIDED on 20-SEP-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	1.30		0.005	mg/L		02-OCT-06	HAS	R448765
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Aluminum (Al)	7.82		0.0003	mg/L		28-SEP-06	CLL	R448664
Arsenic (As)	0.00013		0.00003	mg/L		28-SEP-06	CLL	R448664
Boron (B)	0.002		0.001	mg/L		28-SEP-06	CLL	R448664
Barium (Ba)	0.0309		0.00005	mg/L		28-SEP-06	CLL	R448664
Beryllium (Be)	0.0007		0.0002	mg/L		28-SEP-06	CLL	R448664
Calcium (Ca)	26.5		0.02	mg/L		28-SEP-06	CLL	R448664
Cadmium (Cd)	0.0308		0.00005	mg/L		28-SEP-06	CLL	R448664
Cobalt (Co)	0.0428		0.0001	mg/L		28-SEP-06	CLL	R448664
Chromium (Cr)	0.00120		0.00006	mg/L		28-SEP-06	CLL	R448664
Copper (Cu)	0.0790		0.0006	mg/L		28-SEP-06	CLL	R448664
Mercury (Hg)	<0.00002		0.00002	mg/L		28-SEP-06	CLL	R448664
Potassium (K)	0.79		0.02	mg/L		28-SEP-06	CLL	R448664
Magnesium (Mg)	14.7		0.004	mg/L		28-SEP-06	CLL	R448664
Manganese (Mn)	0.566		0.0001	mg/L		28-SEP-06	CLL	R448664
Molybdenum (Mo)	<0.00006		0.00006	mg/L		28-SEP-06	CLL	R448664
Sodium (Na)	0.325		0.005	mg/L		28-SEP-06	CLL	R448664
Nickel (Ni)	0.273		0.00006	mg/L		28-SEP-06	CLL	R448664
Lead (Pb)	0.00029	RRV	0.00005	mg/L		28-SEP-06	CLL	R448664
Antimony (Sb)	0.00032		0.00003	mg/L		28-SEP-06	CLL	R448664
Selenium (Se)	0.0023		0.0001	mg/L		28-SEP-06	CLL	R448664
Strontium (Sr)	0.104		0.0001	mg/L		28-SEP-06	CLL	R448664
Uranium (U)	0.00227		0.00005	mg/L		28-SEP-06	CLL	R448664
Vanadium (V)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Zinc (Zn)	0.921		0.0008	mg/L		28-SEP-06	CLL	R448664
Ultra-Low Metals								
Iron (Fe)	5.53		0.005	mg/L		02-OCT-06	HAS	R448765
Ultra-Low Metals								

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L437043-11 9								
Sampled By: NOT PROVIDED on 20-SEP-06								
Matrix: WATER								
Ultra-Low Metals								
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		29-SEP-06	CLL	R448664
Aluminum (Al)	8.08		0.0003	mg/L		29-SEP-06	CLL	R448664
Arsenic (As)	0.00078		0.00003	mg/L		29-SEP-06	CLL	R448664
Boron (B)	0.002		0.001	mg/L		29-SEP-06	CLL	R448664
Barium (Ba)	0.0311		0.00005	mg/L		29-SEP-06	CLL	R448664
Beryllium (Be)	0.0006		0.0002	mg/L		29-SEP-06	CLL	R448664
Calcium (Ca)	26.2		0.02	mg/L		29-SEP-06	CLL	R448664
Cadmium (Cd)	0.0307		0.00005	mg/L		29-SEP-06	CLL	R448664
Cobalt (Co)	0.0424		0.0001	mg/L		29-SEP-06	CLL	R448664
Chromium (Cr)	0.00360		0.00006	mg/L		29-SEP-06	CLL	R448664
Copper (Cu)	0.0793		0.0006	mg/L		29-SEP-06	CLL	R448664
Mercury (Hg)	<0.00002		0.00002	mg/L		29-SEP-06	CLL	R448664
Potassium (K)	0.79		0.02	mg/L		29-SEP-06	CLL	R448664
Magnesium (Mg)	14.8		0.004	mg/L		29-SEP-06	CLL	R448664
Manganese (Mn)	0.568		0.0001	mg/L		29-SEP-06	CLL	R448664
Molybdenum (Mo)	0.00045		0.00006	mg/L		29-SEP-06	CLL	R448664
Sodium (Na)	0.301		0.005	mg/L		29-SEP-06	CLL	R448664
Nickel (Ni)	0.271		0.00006	mg/L		29-SEP-06	CLL	R448664
Lead (Pb)	0.00011		0.00005	mg/L		29-SEP-06	CLL	R448664
Antimony (Sb)	0.00038		0.00003	mg/L		29-SEP-06	CLL	R448664
Selenium (Se)	0.0022		0.0001	mg/L		29-SEP-06	CLL	R448664
Strontium (Sr)	0.104		0.0001	mg/L		29-SEP-06	CLL	R448664
Uranium (U)	0.00234		0.00005	mg/L		29-SEP-06	CLL	R448664
Vanadium (V)	0.00695		0.00005	mg/L		29-SEP-06	CLL	R448664
Zinc (Zn)	0.929		0.0008	mg/L		29-SEP-06	CLL	R448664
Ammonia-N	0.041		0.005	mg/L		28-SEP-06	LDC	R447365
Total Organic Carbon	<1		1	mg/L		04-OCT-06	ZOW	R449675
Routine Water Analysis - Low Level								
Chloride (Cl)	<1		1	mg/L		27-SEP-06	EOC	R446955
ICP metals for routine water								
Calcium (Ca)	32.9		0.5	mg/L		28-SEP-06	JWU	R447219
Potassium (K)	1.0		0.1	mg/L		28-SEP-06	JWU	R447219
Magnesium (Mg)	17.5		0.1	mg/L		28-SEP-06	JWU	R447219
Sodium (Na)	<1		1	mg/L		28-SEP-06	JWU	R447219
Ion Balance Calculation								
Ion Balance	84.3			%		02-OCT-06		
TDS (Calculated)	229			mg/L		02-OCT-06		
Hardness (as CaCO3)	154			mg/L		02-OCT-06		
Nitrate+Nitrite-N	0.053		0.006	mg/L		26-SEP-06	SHC	R447739
Nitrate-N	0.053		0.006	mg/L		26-SEP-06	SHC	R447739
Nitrite-N	<0.002		0.002	mg/L		26-SEP-06	SHC	R447739
Sulphate (SO4)	177		0.05	mg/L		28-SEP-06	JTV	R447908
pH, Conductivity and Total Alkalinity								
pH	4.3		0.1	pH		29-SEP-06	PTT	R447654
Conductivity (EC)	400		0.2	uS/cm		29-SEP-06	PTT	R447654
Bicarbonate (HCO3)	<5		5	mg/L		29-SEP-06	PTT	R447654
Carbonate (CO3)	<5		5	mg/L		29-SEP-06	PTT	R447654
Hydroxide (OH)	<5		5	mg/L		29-SEP-06	PTT	R447654
Alkalinity, Total (as CaCO3)	<5		5	mg/L		29-SEP-06	PTT	R447654

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L437043-12 FIELD BLANK MACTUNG								
Sampled By: NOT PROVIDED on 20-SEP-06								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	<0.005		0.005	mg/L		02-OCT-06	HAS	R448765
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		29-SEP-06	CLL	R448664
Aluminum (Al)	0.0018	RRV	0.0003	mg/L		29-SEP-06	CLL	R448664
Arsenic (As)	<0.00003		0.00003	mg/L		29-SEP-06	CLL	R448664
Boron (B)	<0.001		0.001	mg/L		29-SEP-06	CLL	R448664
Barium (Ba)	0.00014		0.00005	mg/L		29-SEP-06	CLL	R448664
Beryllium (Be)	<0.0002		0.0002	mg/L		29-SEP-06	CLL	R448664
Calcium (Ca)	0.17	RRV	0.02	mg/L		29-SEP-06	CLL	R448664
Cadmium (Cd)	<0.00005		0.00005	mg/L		29-SEP-06	CLL	R448664
Cobalt (Co)	<0.0001		0.0001	mg/L		29-SEP-06	CLL	R448664
Chromium (Cr)	<0.00006		0.00006	mg/L		29-SEP-06	CLL	R448664
Copper (Cu)	<0.0006		0.0006	mg/L		29-SEP-06	CLL	R448664
Mercury (Hg)	<0.00002		0.00002	mg/L		29-SEP-06	CLL	R448664
Potassium (K)	<0.02		0.02	mg/L		29-SEP-06	CLL	R448664
Magnesium (Mg)	0.004		0.004	mg/L		29-SEP-06	CLL	R448664
Manganese (Mn)	0.0001		0.0001	mg/L		29-SEP-06	CLL	R448664
Molybdenum (Mo)	<0.00006		0.00006	mg/L		29-SEP-06	CLL	R448664
Sodium (Na)	0.611		0.005	mg/L		06-OCT-06	FLW	R453097
Nickel (Ni)	0.00010		0.00006	mg/L		29-SEP-06	CLL	R448664
Lead (Pb)	<0.00005		0.00005	mg/L		29-SEP-06	CLL	R448664
Antimony (Sb)	0.00030	RRV	0.00003	mg/L		29-SEP-06	CLL	R448664
Selenium (Se)	<0.0001		0.0001	mg/L		29-SEP-06	CLL	R448664
Strontium (Sr)	0.0003		0.0001	mg/L		29-SEP-06	CLL	R448664
Uranium (U)	<0.00005		0.00005	mg/L		29-SEP-06	CLL	R448664
Vanadium (V)	<0.00005		0.00005	mg/L		29-SEP-06	CLL	R448664
Zinc (Zn)	0.0030	RRV	0.0008	mg/L		29-SEP-06	CLL	R448664
Ultra-Low Metals								
Iron (Fe)	<0.005		0.005	mg/L		02-OCT-06	HAS	R448765
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		29-SEP-06	CLL	R448664
Aluminum (Al)	0.0018		0.0003	mg/L		29-SEP-06	CLL	R448664
Arsenic (As)	<0.00003		0.00003	mg/L		29-SEP-06	CLL	R448664
Boron (B)	<0.001		0.001	mg/L		29-SEP-06	CLL	R448664
Barium (Ba)	0.00015	CF	0.00005	mg/L		29-SEP-06	CLL	R448664
Beryllium (Be)	<0.0002		0.0002	mg/L		29-SEP-06	CLL	R448664
Cadmium (Cd)	<0.00005		0.00005	mg/L		29-SEP-06	CLL	R448664
Cobalt (Co)	<0.0001		0.0001	mg/L		29-SEP-06	CLL	R448664
Chromium (Cr)	<0.00006		0.00006	mg/L		29-SEP-06	CLL	R448664
Copper (Cu)	<0.0006		0.0006	mg/L		29-SEP-06	CLL	R448664
Mercury (Hg)	<0.00002		0.00002	mg/L		29-SEP-06	CLL	R448664
Potassium (K)	<0.02		0.02	mg/L		29-SEP-06	CLL	R448664
Magnesium (Mg)	<0.004		0.004	mg/L		29-SEP-06	CLL	R448664
Manganese (Mn)	0.0002		0.0001	mg/L		29-SEP-06	CLL	R448664
Molybdenum (Mo)	<0.00006		0.00006	mg/L		29-SEP-06	CLL	R448664
Sodium (Na)	0.592		0.005	mg/L		06-OCT-06	FLW	R453097
Nickel (Ni)	<0.00006		0.00006	mg/L		29-SEP-06	CLL	R448664
Lead (Pb)	<0.00005		0.00005	mg/L		29-SEP-06	CLL	R448664
Selenium (Se)	<0.0001		0.0001	mg/L		29-SEP-06	CLL	R448664
Strontium (Sr)	0.0002		0.0001	mg/L		29-SEP-06	CLL	R448664
Uranium (U)	<0.00005		0.00005	mg/L		29-SEP-06	CLL	R448664
Vanadium (V)	<0.00005		0.00005	mg/L		29-SEP-06	CLL	R448664

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L437043-12 FIELD BLANK MACTUNG								
Sampled By: NOT PROVIDED on 20-SEP-06								
Matrix: WATER								
Ultra-Low Metals								
Ultra-Low Metals								
Zinc (Zn)	0.0009		0.0008	mg/L		29-SEP-06	CLL	R448664
Ammonia-N	<0.005		0.005	mg/L		28-SEP-06	LDC	R447365
Total Organic Carbon	<1		1	mg/L		04-OCT-06	ZOW	R449675
Routine Water Analysis - Low Level								
Chloride (Cl)	<1		1	mg/L		27-SEP-06	EOC	R446955
ICP metals for routine water								
Calcium (Ca)	<0.5		0.5	mg/L		29-SEP-06	MLH	R447862
Potassium (K)	<0.1		0.1	mg/L		29-SEP-06	MLH	R447862
Magnesium (Mg)	<0.1		0.1	mg/L		29-SEP-06	MLH	R447862
Sodium (Na)	<1		1	mg/L		29-SEP-06	MLH	R447862
Ion Balance Calculation								
Ion Balance	Low TDS			%		02-OCT-06		
TDS (Calculated)	<1			mg/L		02-OCT-06		
Hardness (as CaCO3)	<1			mg/L		02-OCT-06		
Nitrate+Nitrite-N	<0.006		0.006	mg/L		26-SEP-06	SHC	R447739
Nitrate-N	<0.006		0.006	mg/L		26-SEP-06	SHC	R447739
Nitrite-N	<0.002		0.002	mg/L		26-SEP-06	SHC	R447739
Sulphate (SO4)	<0.05		0.05	mg/L		28-SEP-06	JTV	R447908
pH, Conductivity and Total Alkalinity								
pH	6.6		0.1	pH		29-SEP-06	PTT	R447654
Conductivity (EC)	3.7		0.2	uS/cm		29-SEP-06	PTT	R447654
Bicarbonate (HCO3)	<5		5	mg/L		29-SEP-06	PTT	R447654
Carbonate (CO3)	<5		5	mg/L		29-SEP-06	PTT	R447654
Hydroxide (OH)	<5		5	mg/L		29-SEP-06	PTT	R447654
Alkalinity, Total (as CaCO3)	<5		5	mg/L		29-SEP-06	PTT	R447654
L437043-13 TRIP BLANK MACTUNG								
Sampled By: NOT PROVIDED								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Iron (Fe)	<0.005		0.005	mg/L		17-OCT-06	HAS	R454401
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Aluminum (Al)	0.0016	RRV	0.0003	mg/L		28-SEP-06	CLL	R448664
Arsenic (As)	<0.00003		0.00003	mg/L		28-SEP-06	CLL	R448664
Boron (B)	0.002		0.001	mg/L		28-SEP-06	CLL	R448664
Barium (Ba)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Beryllium (Be)	<0.0002		0.0002	mg/L		28-SEP-06	CLL	R448664
Calcium (Ca)	<0.02		0.02	mg/L		28-SEP-06	CLL	R448664
Cadmium (Cd)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Cobalt (Co)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Chromium (Cr)	<0.00006		0.00006	mg/L		06-OCT-06	FLW	R453097
Copper (Cu)	<0.0006		0.0006	mg/L		28-SEP-06	CLL	R448664
Mercury (Hg)	<0.00002		0.00002	mg/L		28-SEP-06	CLL	R448664
Potassium (K)	<0.02		0.02	mg/L		28-SEP-06	CLL	R448664
Magnesium (Mg)	<0.004		0.004	mg/L		28-SEP-06	CLL	R448664
Manganese (Mn)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Molybdenum (Mo)	<0.00006		0.00006	mg/L		28-SEP-06	CLL	R448664
Sodium (Na)	0.015	RRV	0.005	mg/L		28-SEP-06	CLL	R448664
Nickel (Ni)	0.00026	RRV	0.00006	mg/L		28-SEP-06	CLL	R448664
Lead (Pb)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L437043-13 TRIP BLANK MACTUNG								
Sampled By: NOT PROVIDED								
Matrix: WATER								
Ultra-Low Metals - Dissolved								
Ultra-Low Metals - Dissolved								
Antimony (Sb)	0.00058	RRV	0.00003	mg/L		28-SEP-06	CLL	R448664
Selenium (Se)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Strontium (Sr)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Uranium (U)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Vanadium (V)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Zinc (Zn)	0.0009	RRV	0.0008	mg/L		06-OCT-06	FLW	R453097
Ultra-Low Metals								
Iron (Fe)	<0.005		0.005	mg/L		17-OCT-06	HAS	R454401
Ultra-Low Metals								
Silver (Ag)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Aluminum (Al)	<0.0003		0.0003	mg/L		28-SEP-06	CLL	R448664
Arsenic (As)	<0.00003		0.00003	mg/L		28-SEP-06	CLL	R448664
Boron (B)	0.001		0.001	mg/L		28-SEP-06	CLL	R448664
Barium (Ba)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Beryllium (Be)	<0.0002		0.0002	mg/L		28-SEP-06	CLL	R448664
Calcium (Ca)	<0.02		0.02	mg/L		28-SEP-06	CLL	R448664
Cadmium (Cd)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Cobalt (Co)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Chromium (Cr)	0.00010		0.00006	mg/L		28-SEP-06	CLL	R448664
Copper (Cu)	<0.0006		0.0006	mg/L		28-SEP-06	CLL	R448664
Mercury (Hg)	<0.00002		0.00002	mg/L		28-SEP-06	CLL	R448664
Potassium (K)	<0.02		0.02	mg/L		28-SEP-06	CLL	R448664
Magnesium (Mg)	<0.004		0.004	mg/L		28-SEP-06	CLL	R448664
Manganese (Mn)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Molybdenum (Mo)	<0.00006		0.00006	mg/L		28-SEP-06	CLL	R448664
Sodium (Na)	<0.005		0.005	mg/L		28-SEP-06	CLL	R448664
Nickel (Ni)	<0.00006		0.00006	mg/L		28-SEP-06	CLL	R448664
Lead (Pb)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Antimony (Sb)	<0.00003		0.00003	mg/L		28-SEP-06	CLL	R448664
Selenium (Se)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Strontium (Sr)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Uranium (U)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Vanadium (V)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Zinc (Zn)	<0.0008		0.0008	mg/L		28-SEP-06	CLL	R448664
Ammonia-N	<0.005		0.005	mg/L		28-SEP-06	LDC	R447365
Total Organic Carbon	<1		1	mg/L		04-OCT-06	ZOW	R449675
Routine Water Analysis - Low Level								
Chloride (Cl)	<1		1	mg/L		27-SEP-06	EOC	R446955
ICP metals for routine water								
Calcium (Ca)	<0.5		0.5	mg/L		29-SEP-06	MLH	R447862
Potassium (K)	<0.1		0.1	mg/L		29-SEP-06	MLH	R447862
Magnesium (Mg)	<0.1		0.1	mg/L		29-SEP-06	MLH	R447862
Sodium (Na)	<1		1	mg/L		29-SEP-06	MLH	R447862
Ion Balance Calculation								
Ion Balance	Low TDS			%		02-OCT-06		
TDS (Calculated)	<1			mg/L		02-OCT-06		
Hardness (as CaCO3)	<1			mg/L		02-OCT-06		
Nitrate+Nitrite-N	<0.006		0.006	mg/L		26-SEP-06	SHC	R447739
Nitrate-N	<0.006		0.006	mg/L		26-SEP-06	SHC	R447739
Nitrite-N	<0.002		0.002	mg/L		26-SEP-06	SHC	R447739

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L437043-13 TRIP BLANK MACTUNG								
Sampled By: NOT PROVIDED								
Matrix: WATER								
Routine Water Analysis - Low Level								
Sulphate (SO4)	<0.05		0.05	mg/L		28-SEP-06	JTV	R447908
pH, Conductivity and Total Alkalinity								
pH	5.6		0.1	pH		29-SEP-06	PTT	R447654
Conductivity (EC)	1.2		0.2	uS/cm		29-SEP-06	PTT	R447654
Bicarbonate (HCO3)	<5		5	mg/L		29-SEP-06	PTT	R447654
Carbonate (CO3)	<5		5	mg/L		29-SEP-06	PTT	R447654
Hydroxide (OH)	<5		5	mg/L		29-SEP-06	PTT	R447654
Alkalinity, Total (as CaCO3)	<5		5	mg/L		29-SEP-06	PTT	R447654
L437043-14 FILTER BLANK MACTUNG								
Sampled By: NOT PROVIDED								
Matrix: N/A								
Ultra-Low Metals - Dissolved								
Iron (Fe)	<0.005		0.005	mg/L		02-OCT-06	HAS	R448765
Ultra-Low Metals - Dissolved								
Silver (Ag)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Aluminum (Al)	0.0008		0.0003	mg/L		28-SEP-06	CLL	R448664
Arsenic (As)	<0.00003		0.00003	mg/L		28-SEP-06	CLL	R448664
Boron (B)	<0.001		0.001	mg/L		28-SEP-06	CLL	R448664
Barium (Ba)	0.00009		0.00005	mg/L		28-SEP-06	CLL	R448664
Beryllium (Be)	<0.0002		0.0002	mg/L		28-SEP-06	CLL	R448664
Calcium (Ca)	0.18		0.02	mg/L		28-SEP-06	CLL	R448664
Cadmium (Cd)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Cobalt (Co)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Chromium (Cr)	0.00009		0.00006	mg/L		28-SEP-06	CLL	R448664
Copper (Cu)	<0.0006		0.0006	mg/L		28-SEP-06	CLL	R448664
Mercury (Hg)	<0.00002		0.00002	mg/L		28-SEP-06	CLL	R448664
Potassium (K)	0.02		0.02	mg/L		28-SEP-06	CLL	R448664
Magnesium (Mg)	<0.004		0.004	mg/L		28-SEP-06	CLL	R448664
Manganese (Mn)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Molybdenum (Mo)	<0.00006		0.00006	mg/L		28-SEP-06	CLL	R448664
Sodium (Na)	0.088		0.005	mg/L		28-SEP-06	CLL	R448664
Nickel (Ni)	0.00031		0.00006	mg/L		28-SEP-06	CLL	R448664
Lead (Pb)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Antimony (Sb)	0.00039		0.00003	mg/L		28-SEP-06	CLL	R448664
Selenium (Se)	<0.0001		0.0001	mg/L		28-SEP-06	CLL	R448664
Strontium (Sr)	0.0003		0.0001	mg/L		28-SEP-06	CLL	R448664
Uranium (U)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Vanadium (V)	<0.00005		0.00005	mg/L		28-SEP-06	CLL	R448664
Zinc (Zn)	0.0071		0.0008	mg/L		28-SEP-06	CLL	R448664

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
BL:INT	Balance Reviewed: Interference Or Non-Measured Component
CF	Confirmation required
RRV	Reported Result Verified By Repeat Analysis

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Preparation Method Reference(Based On)	Analytical Method Reference(Based On)
C-TOT-ORG-ED	Water	Total Organic Carbon		APHA 5310 B-Instrumental
CL-ED	Water	Chloride (Cl)		APHA 4500 Cl E-Colorimetry
ETL-ROUTINE-LOW-ED	Water	ICP metals for routine water		APHA 3120 B-ICP/OES
IONBALANCE-ED	Water	Ion Balance Calculation		APHA 1030E
MET1-ULTRA-DIS-ED	Water	Ultra-Low Metals - Dissolved		EPA 6020
MET1-ULTRA-ED	Water	Ultra-Low Metals		EPA 6020
MET2-ULTRA-DIS-ED	Water	Major Metals - Dissolved		EPA 200.7
MET2-ULTRA-ED	Water	Major Metals		EPA 200.7
N2N3-LOW-ED	Water	Nitrate+Nitrite-N		APHA 4500 NO3E-Colorimetry
NH4-LOW-ED	Water	Ammonia-N		APHA 4500 NH3F-Colorimetry
NO2-LOW-ED	Water	Nitrite-N		APHA 4500 NO2B-Colorimetry
NO3-LOW-ED	Water	Nitrate-N		APHA 4500 NO3H-Colorimetry
PH/EC/ALK-ED	Water	pH, Conductivity and Total Alkalinity		APHA 4500-H, 2510, 2320
SO4-LOW-ED	Water	Sulfate (SO4)		APHA 4110 B-Ion Chromatography

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

Chain of Custody numbers:

203701 203702

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
ED	ALS LABORATORY GROUP - EDMONTON, ALBERTA, CANADA		

Reference Information

GLOSSARY OF REPORT TERMS
Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.
The reported surrogate recovery value provides a measure of method efficiency. The Laboratory control limits are determined under column heading D.L.
mg/kg (units) - unit of concentration based on mass, parts per million.
mg/L (units) - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
UNLESS OTHERWISE STATED, SAMPLES ARE NOT CORRECTED FOR CLIENT FIELD BLANKS.
Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

ETL EnviroTest
A DIVISION OF ETL CHEMSEC ANALYTICAL LIMITED

CHAIN OF CUSTODY / ANALYTICAL REQUEST FORM
CANADA TOLL FREE 1-800-668-9878

COC # 203701

Pg 1 of 2

www.envirotest.com

DATE: Sept. 25/06

ETL LAB WORK ORDER # L437043

REPORT TO:

COMPANY: EBA Engineering

CONTACT: Steve Moore

ADDRESS: Box 2244, #201, 4916-49th St
Yellowknife NT

PHONE: 867-920-2287 FAX: 867-873-3324

REPORT DISTRIBUTION: ALL FINAL RESULTS WILL BE MAILED

EMAIL ☒ FAX ☐

EMAIL 1: smoore@eba.ca

EMAIL 2: klanglois@eba.ca

SELECT: pdf ☒ digital ☒ both ☒

SERVICE REQUESTED

☑ REGULAR SERVICE (DEFAULT)

☐ PRIORITY SERVICE (50% SURCHARGE)

☐ EMERGENCY SERVICE (100% SURCHARGE)

INVOICE TO: SAME Y / N

COMPANY:

CONTACT:

ADDRESS:

PHONE: FAX:

INDICATE BOTTLES: FILTERED/PRESERVED (F/P) ▶

JOB # 201-1200163.005
MacTung

PO / AFE:

LSD:

QUOTE #

ANALYSIS REQUEST

SAMPLE ID	SAMPLING LOCATION	SAMPLED BY / DATE / TIME	SAMPLING METHOD	SAMPLE TYPE	Ultra-low Total Metals	" Dissolved Metals	Total Organic Carbon	low-level nutrients	" routine	HAZARDOUS? (Y/N)	NUMBER OF CONTAINERS	HIGHLY CONTAMINATED? (Y/N)	LAB SAMPLE #
Station 1	MacTung	Sept 19-20/06	Grab	Water	✓	✓	✓	✓	✓				
2	"	"	"	"	✓	✓	✓	✓	✓				
3	"	"	"	"	✓	✓	✓	✓	✓				
3 Duplicate	"	"	"	"	✓	✓	✓	✓	✓				
4	"	"	"	"	✓	✓	✓	✓	✓				
5	"	"	"	"	✓	✓	✓	✓	✓				
6	"	"	"	"	✓	✓	✓	✓	✓				
7	"	"	"	"	✓	✓	✓	✓	✓				
8	"	"	"	"	✓	✓	✓	✓	✓				
8 Dup.	"	"	"	"	✓	✓	✓	✓	✓				

NOTES & CONDITIONS:
1. Quote number must be provided to ensure proper pricing.
2. Turnaround times will vary dependent on complexity of analysis & Lab workload at time of submission. Please contact the Lab to confirm turnaround time.
3. All hazardous samples submitted must be labeled to comply with WHMIS and TDG regulations. This must include the nature of the hazard, as well as a contact name & phone number that the Lab can contact for further information.

NOTE: Failure to properly complete all portions of this form may delay analysis.

GUIDELINES / REGULATIONS

CCME Guidelines

SPECIAL INSTRUCTIONS / NATURE OF HAZARDOUS MATERIAL

Steve Moore 867-920-2287
Phone me if there are any problems.

SAMPLE CONDITION

☐ FROZEN ☑ COLD ☐ AMBIENT

MEAN TEMPERATURE 6.4

RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	SAMPLE CONDITION ACCEPTABLE UPON RECEIPT? (Y/N)
[signature]	Sept. 25/06	[signature]	Sep 26/06 11:23	
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	

03003

REFER TO BACK FOR SAMPLING INFORMATION & REGIONAL LOCATIONS

WHITE - REPORT COPY, PINK - FILE COPY, YELLOW - CLIENT COPY

REVISED FEBRUARY 2004

ETL EnviroTest
A DIVISION OF ETL CHEMISTRIC ANALYTICAL LIMITED

CHAIN OF CUSTODY / ANALYTICAL REQUEST FORM
CANADA TOLL FREE 1-800-668-9878

COC # 203702

www.envirotest.com

REPORT TO: COMPANY: See Sheet 1 of 2	DATE:	ETL LAB WORK ORDER #
CONTACT:	REPORT DISTRIBUTION: ALL FINAL RESULTS WILL BE MAILED	SERVICE REQUESTED
ADDRESS:	EMAIL ☐ FAX ☐	☐ REGULAR SERVICE (DEFAULT)
	EMAIL 1:	☐ PRIORITY SERVICE (50% SURCHARGE)
PHONE: FAX:	EMAIL 2:	☐ EMERGENCY SERVICE (100% SURCHARGE)
INVOICE TO: SAME Y / N	SELECT: pdf ☐ digital ☐ both ☐	ANALYSIS REQUEST
COMPANY:	INDICATE BOTTLES: FILTERED/PRESERVED (F/P) ▶	
CONTACT:	JOB #	
ADDRESS:	PO / AFE:	
	LSD:	
PHONE: FAX:	QUOTE #	

SAMPLE ID	SAMPLING LOCATION	SAMPLED BY / DATE / TIME	SAMPLING METHOD	SAMPLE TYPE	Ultra-low Total Metals	" Dissolved Metals	TOC	low-level nutrients	" routine						HAZARDOUS? (Y/N)	NUMBER OF CONTAINERS	HIGHLY CONTAMINATED? (Y/N)	LAB SAMPLE #
Field Blank	~~Sep~~ MacTung	Sept. 20/06	Grab	Water	✓	✓	✓	✓	✓									
Trip Blank	"	— NA	—	"	✓	✓	✓	✓	✓									
Filter Blank	"	~~Sept~~ NA	—	~~Water~~ NA	✓	✓												

NOTES & CONDITIONS:
1. Quote number must be provided to ensure proper pricing.
2. Turnaround times will vary dependent on complexity of analysis & Lab workload at time of submission. Please contact the Lab to confirm turnaround time.
3. All hazardous samples submitted must be labeled to comply with WHMIS and TDG regulations. This must include the nature of the hazard, as well as a contact name & phone number that the Lab can contact for further information.

NOTE: Failure to properly complete all portions of this form may delay analysis.

GUIDELINES / REGULATIONS	SPECIAL INSTRUCTIONS / NATURE OF HAZARDOUS MATERIAL	SAMPLE CONDITION
		☐ FROZEN ☐ COLD ☐ AMBIENT — MEAN TEMPERATURE

RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	SAMPLE CONDITION ACCEPTABLE UPON RECEIPT? (Y/N)
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	

ETL EnviroTest
A DIVISION OF ETL CHEMSEC ANALYTICAL LIMITED

CHAIN OF CUSTODY / ANALYTICAL REQUEST FORM
CANADA TOLL FREE 1-800-668-9878

COC # 203701

Pg 1 of 2

www.envirotest.com

DATE: Sept. 25/06

ETL LAB WORK ORDER # L437043

REPORT TO:

COMPANY: EBA Engineering

CONTACT: Steve Moore

ADDRESS: Box 2244, #201, 4916-49th St
Yellowknife NT

PHONE: 867-920-2287 FAX: 867-873-3324

REPORT DISTRIBUTION: ALL FINAL RESULTS WILL BE MAILED

EMAIL ☒ FAX ☐

EMAIL 1: smoore@eba.ca

EMAIL 2: klanglois@eba.ca

SELECT: pdf ☒ digital ☒ both ☒

SERVICE REQUESTED

☑ REGULAR SERVICE (DEFAULT)

☐ PRIORITY SERVICE (50% SURCHARGE)

☐ EMERGENCY SERVICE (100% SURCHARGE)

INVOICE TO: SAME Y / N

COMPANY:

CONTACT:

ADDRESS:

PHONE: FAX:

INDICATE BOTTLES: FILTERED/PRESERVED (F/P) ▶

JOB # 201-1200163.005
MacTung

PO / AFE:

LSD:

QUOTE #

ANALYSIS REQUEST

SAMPLE ID	SAMPLING LOCATION	SAMPLED BY / DATE / TIME	SAMPLING METHOD	SAMPLE TYPE	Ultra-low Total Metals	" Dissolved Metals	Total Organic Carbon	low-level nutrients	" routine	HAZARDOUS? (Y/N)	NUMBER OF CONTAINERS	HIGHLY CONTAMINATED? (Y/N)	LAB SAMPLE #
Station 1	MacTung	Sept 19-20/06	Grab	Water	✓	✓	✓	✓	✓				
2	"	"	"	"	✓	✓	✓	✓	✓				
3	"	"	"	"	✓	✓	✓	✓	✓				
3 Duplicate	"	"	"	"	✓	✓	✓	✓	✓				
4	"	"	"	"	✓	✓	✓	✓	✓				
5	"	"	"	"	✓	✓	✓	✓	✓				
6	"	"	"	"	✓	✓	✓	✓	✓				
7	"	"	"	"	✓	✓	✓	✓	✓				
8	"	"	"	"	✓	✓	✓	✓	✓				
8 Dup.	"	"	"	"	✓	✓	✓	✓	✓				

NOTES & CONDITIONS:
1. Quote number must be provided to ensure proper pricing.
2. Turnaround times will vary dependent on complexity of analysis & Lab workload at time of submission. Please contact the Lab to confirm turnaround time.
3. All hazardous samples submitted must be labeled to comply with WHMIS and TDG regulations. This must include the nature of the hazard, as well as a contact name & phone number that the Lab can contact for further information.

NOTE: Failure to properly complete all portions of this form may delay analysis.

GUIDELINES / REGULATIONS

CCME Guidelines

SPECIAL INSTRUCTIONS / NATURE OF HAZARDOUS MATERIAL

Steve Moore 867-920-2287
Phone me if there are any problems.

SAMPLE CONDITION

☐ FROZEN ☑ COLD ☐ AMBIENT

MEAN TEMPERATURE 6.4

RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	SAMPLE CONDITION ACCEPTABLE UPON RECEIPT? (Y/N)
[signature]	Sept. 25/06	[signature]	Sep 26/06 11:23	
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	

03003

REFER TO BACK FOR SAMPLING INFORMATION & REGIONAL LOCATIONS

WHITE - REPORT COPY, PINK - FILE COPY, YELLOW - CLIENT COPY

REVISED FEBRUARY 2004

ETL EnviroTest
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REPORT TO: COMPANY: See Sheet 1 of 2	DATE:	ETL LAB WORK ORDER #
CONTACT:	REPORT DISTRIBUTION: ALL FINAL RESULTS WILL BE MAILED	SERVICE REQUESTED
ADDRESS:	EMAIL ☐ FAX ☐	☐ REGULAR SERVICE (DEFAULT)
	EMAIL 1:	☐ PRIORITY SERVICE (50% SURCHARGE)
PHONE: FAX:	EMAIL 2:	☐ EMERGENCY SERVICE (100% SURCHARGE)
INVOICE TO: SAME Y / N	SELECT: pdf ☐ digital ☐ both ☐	ANALYSIS REQUEST
COMPANY:	INDICATE BOTTLES: FILTERED/PRESERVED (F/P) ▶	
CONTACT:	JOB #	
ADDRESS:	PO / AFE:	
	LSD:	
PHONE: FAX:	QUOTE #	

SAMPLE ID	SAMPLING LOCATION	SAMPLED BY / DATE / TIME	SAMPLING METHOD	SAMPLE TYPE	Ultra-low Total Metals	" Dissolved Metals	TOC	low-level nutrients	" routine						HAZARDOUS? (Y/N)	NUMBER OF CONTAINERS	HIGHLY CONTAMINATED? (Y/N)	LAB SAMPLE #
Field Blank	~~Sep~~ MacTung	Sept. 20/06	Grab	Water	✓	✓	✓	✓	✓									
Trip Blank	"	— NA	—	"	✓	✓	✓	✓	✓									
Filter Blank	"	~~Sept~~ NA	—	~~Water~~ NA	✓	✓												

NOTES & CONDITIONS:
1. Quote number must be provided to ensure proper pricing.
2. Turnaround times will vary dependent on complexity of analysis & Lab workload at time of submission. Please contact the Lab to confirm turnaround time.
3. All hazardous samples submitted must be labeled to comply with WHMIS and TDG regulations. This must include the nature of the hazard, as well as a contact name & phone number that the Lab can contact for further information.

NOTE: Failure to properly complete all portions of this form may delay analysis.

GUIDELINES / REGULATIONS	SPECIAL INSTRUCTIONS / NATURE OF HAZARDOUS MATERIAL	SAMPLE CONDITION
		☐ FROZEN ☐ COLD ☐ AMBIENT — MEAN TEMPERATURE

RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	SAMPLE CONDITION ACCEPTABLE UPON RECEIPT? (Y/N)
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	

APPENDIX

APPENDIX B ANALYTICAL RESULTS OF MACTUNG TRAVEL BLANKS - 2006

APPENDIX B. ANALYTICAL RESULTS OF MACTUNG TRAVEL BLANKS - 2006

Analyte	15-17 June	8-9 July	5-6 August	20 September	Units	Detection Limits
Major Ions, Nutrients and Inorganics						
Chloride (Cl)	<1	<1	<1	<1	mg/L	1
Fluoride (F)	---	<0.05	---	---	mg/L	---
Calcium (Ca)	<0.5	<0.5	<0.5	<0.5	mg/L	0.5
Potassium (K)	<0.1	<0.1	<0.5	<0.1	mg/L	0.1
Magnesium (Mg)	<0.1	<0.1	<0.1	<0.1	mg/L	0.1
Sodium (Na)	<1	<1	<1	<1	mg/L	1
Ion Balance	Low TDS	Low TDS	Low EC	Low TDS	%	---
TDS (Calculated)	<1	<1	1	<1	mg/L	---
Hardness (as CaCO3)	<1	<1	<1	<1	mg/L	---
Iron-Extractable	---	<0.005	---	---	mg/L	0.005
Manganese-Extractable	---	<0.001	---	---	mg/L	0.001
Nitrate+Nitrite-N	<0.006	<0.006	0.3	<0.006	mg/L	0.006
Nitrate-N	<0.006	<0.006	0.3	<0.006	mg/L	0.006
Nitrite-N	<0.002	<0.002	<0.05	<0.002	mg/L	0.002/0.05
Sulfate (SO4)	<0.05	<0.05	<0.5	<0.05	mg/L	0.05/0.5
pH	5.5	5.5	5.5	5.6	pH	0.1
Conductivity (EC)	1.1	1.1	1.2	1.2	µS/cm	0.2
Bicarbonate (HCO3)	<5	<5	<5	<5	mg/L	5
Carbonate (CO3)	<5	<5	<5	<5	mg/L	5
Hydroxide (OH)	<5	<5	<5	<5	mg/L	5
Alkalinity, Total (as CaCO3)	<5	<5	<5	<5	mg/L	5
Ammonia-N	<0.005	<0.005	<0.005	<0.005	mg/L	0.005
Phosphorus, Total	<0.001	<0.001	---	---	mg/L	0.001
Total Organic Carbon	<1	<0.5	<1	<1	mg/L	1
Redox Potential	---	172	---	---	---	---
Total Ultra-Low Level Metals						
Silver (Ag)	<0.0001	<0.0001	<0.0001	<0.0001	mg/L	0.0001
Aluminum (Al)	0.002	<0.0003	<0.0003	<0.0003	mg/L	0.0003
Arsenic (As)	<0.00003	<0.00003	<0.00003	<0.00003	mg/L	0.00003
Boron (B)	<0.001	<0.001	<0.001	0.001	mg/L	0.001
Barium (Ba)	<0.00005	<0.00005	<0.00005	<0.00005	mg/L	0.00005
Beryllium (Be)	<0.0002	<0.0002	<0.0002	<0.0002	mg/L	0.0002
Bismuth (Bi)	---	<0.00003	---	---	mg/L	0.00003
Calcium (Ca)	<0.02	<0.02	<0.02	<0.02	mg/L	0.02
Cadmium (Cd)	<0.00005	<0.00005	<0.00005	<0.00005	mg/L	0.00005
Cobalt (Co)	<0.0001	<0.0001	<0.0001	<0.0001	mg/L	0.0001
Chromium (Cr)	<0.00006	<0.00006	<0.00006	0.0001	mg/L	0.00006
Copper (Cu)	<0.0006	<0.0006	<0.0006	<0.0006	mg/L	0.0006
Iron (Fe)	<0.005	<0.005	<0.005	<0.005	mg/L	0.005
Lithium (Li)	---	<0.0001	---	---	mg/L	0.0001
Mercury (Hg)	<0.00002	<0.00002	<0.00002	<0.00002	mg/L	0.00002
Potassium (K)	<0.02	<0.02	<0.02	<0.02	mg/L	0.02
Magnesium (Mg)	<0.004	<0.004	<0.004	<0.004	mg/L	0.004
Manganese (Mn)	<0.0001	<0.0001	<0.0001	<0.0001	mg/L	0.0001
Molybdenum (Mo)	<0.00006	<0.00006	<0.00006	<0.00006	mg/L	0.00006
Sodium (Na)	<0.005	<0.005	0.007	<0.005	mg/L	0.005
Nickel (Ni)	<0.00006	<0.00006	<0.00006	<0.00006	mg/L	0.00006
Lead (Pb)	<0.00005	<0.00005	<0.00005	<0.00005	mg/L	0.00005
Antimony (Sb)	0.00028	0.00015	0.00016	<0.00003	mg/L	0.00003
Selenium (Se)	<0.0001	<0.0001	<0.0001	<0.0001	mg/L	0.0001
Strontium (Sr)	0.0001	<0.0001	<0.0001	<0.0001	mg/L	0.0001
Silicon (Si)	---	<0.1	---	---	mg/L	0.1
Tin (Sn)	---	<0.0001	---	---	mg/L	0.0001
Uranium (U)	<0.00005	<0.00005	<0.00005	<0.00005	mg/L	0.00005
Vanadium (V)	<0.00005	<0.00005	<0.00005	<0.00005	mg/L	0.00005
Zinc (Zn)	0.0013	<0.0008	<0.0008	<0.0008	mg/L	0.0008
Dissolved Ultra-Low Level Metals						
Silver (Ag)	<0.0001	<0.0001	<0.0001	<0.0001	mg/L	0.0001
Aluminum (Al)	<0.0003	<0.0003	<0.0003	0.0016	mg/L	0.0003
Arsenic (As)	<0.00003	<0.00003	<0.00003	<0.00003	mg/L	0.00003
Boron (B)	<0.001	<0.001	<0.001	0.002	mg/L	0.001
Barium (Ba)	<0.00005	<0.00005	0.0001	<0.00005	mg/L	0.00005
Beryllium (Be)	<0.0002	<0.0002	<0.0002	<0.0002	mg/L	0.0002
Bismuth (Bi)	---	<0.00003	---	---	mg/L	0.00003
Calcium (Ca)	<0.02	<0.02	<0.02	<0.02	mg/L	0.02
Cadmium (Cd)	<0.00005	<0.00005	<0.00005	<0.00005	mg/L	0.00005
Cobalt (Co)	<0.0001	<0.0001	<0.0001	<0.0001	mg/L	0.0001
Chromium (Cr)	<0.00006	<0.00006	<0.00006	<0.00006	mg/L	0.00006
Copper (Cu)	<0.0006	<0.0006	0.003	<0.0006	mg/L	0.0006
Iron (Fe)	<0.005	<0.005	<0.005	<0.005	mg/L	0.005
Lithium (Li)	---	<0.0001	---	---	mg/L	0.0001
Mercury (Hg)	<0.00002	<0.00002	<0.00002	<0.00002	mg/L	0.00002
Potassium (K)	<0.02	<0.02	<0.02	<0.02	mg/L	0.02
Magnesium (Mg)	<0.004	<0.004	<0.004	<0.004	mg/L	0.004
Manganese (Mn)	<0.0001	<0.0001	<0.0001	<0.0001	mg/L	0.0001
Molybdenum (Mo)	<0.00006	<0.00006	<0.00006	<0.00006	mg/L	0.00006
Sodium (Na)	<0.005	<0.005	<0.005	0.015	mg/L	0.005
Nickel (Ni)	<0.00006	<0.00006	<0.00006	0.00026	mg/L	0.00006
Lead (Pb)	<0.00005	<0.00005	0.00011	<0.00005	mg/L	0.00005
Antimony (Sb)	0.00037	0.00014	0.00022	0.00058	mg/L	0.00003
Selenium (Se)	<0.0001	<0.0001	<0.0001	<0.0001	mg/L	0.0001
Strontium (Sr)	<0.0001	<0.0001	<0.0001	<0.0001	mg/L	0.0001
Silicon (Si)	---	<0.1	---	---	mg/L	0.1
Tin (Sn)	---	<0.0001	---	---	mg/L	0.0001
Uranium (U)	<0.00005	<0.00005	<0.00005	<0.00005	mg/L	0.00005
Vanadium (V)	<0.00005	<0.00005	<0.00005	<0.00005	mg/L	0.00005
Zinc (Zn)	<0.0008	<0.0008	<0.0008	0.0009	mg/L	0.0008

APPENDIX

APPENDIX C ANALYTICAL RESULTS OF MACTUNG FIELD BLANKS - 2006

APPENDIX C. ANALYTICAL RESULTS OF MACTUNG FIELD BLANKS - 2006

Analyte	15-17 June	8-9 July	5-6 August	20 September	Units	Detection Limits
Major Ions, Nutrients and Inorganics						
Chloride (Cl)	<1	1	<1	<1	mg/L	1
Fluoride (F)	---	<0.05	---	---	mg/L	---
Calcium (Ca)	<0.5	<0.5	<0.5	<0.5	mg/L	0.5
Potassium (K)	<0.1	<0.1	<0.5	<0.1	mg/L	0.1
Magnesium (Mg)	<0.1	<0.1	<0.1	<0.1	mg/L	0.1
Sodium (Na)	<1	<1	<1	<1	mg/L	1
Ion Balance	Low TDS	Low EC	Low TDS	Low TDS	%	---
TDS (Calculated)	<1	1	<1	<1	mg/L	---
Hardness (as CaCO3)	<1	<1	<1	<1	mg/L	---
Iron-Extractable	---	<0.005	---	---	mg/L	0.005
Manganese-Extractable	---	<0.001	---	---	mg/L	0.001
Nitrate+Nitrite-N	<0.006	<0.006	<0.1	<0.006	mg/L	0.006
Nitrate-N	<0.006	<0.006	<0.1	<0.006	mg/L	0.006
Nitrite-N	<0.002	<0.002	<0.05	<0.002	mg/L	0.002
Sulfate (SO4)	<0.05	<0.05	<0.5	<0.05	mg/L	0.05
pH	6.1	6.1	6.3	6.6	pH	0.1
Conductivity (EC)	1.1	1.1	1.6	3.7	µS/cm	0.2
Bicarbonate (HCO3)	<5	<5	<5	<5	mg/L	5
Carbonate (CO3)	<5	<5	<5	<5	mg/L	5
Hydroxide (OH)	<5	<5	<5	<5	mg/L	5
Alkalinity, Total (as CaCO3)	<5	<5	<5	<5	mg/L	5
Ammonia-N	<0.005	<0.005	<0.005	<0.005	mg/L	0.005
Phosphorus, Total	<0.001	<0.001	---	---	mg/L	0.001
Total Organic Carbon	<1	<0.5	<1	<1	mg/L	1
Redox Potential	---	142	---	---	---	---
Total Ultra-Low Level Metals						
Silver (Ag)	<0.0001	<0.0001	<0.0001	<0.0001	mg/L	0.0001
Aluminum (Al)	0.0011	<0.0003	0.002	0.0018	mg/L	0.0003
Arsenic (As)	<0.00003	<0.00003	<0.00003	<0.00003	mg/L	0.00003
Boron (B)	<0.001	<0.001	<0.001	<0.001	mg/L	0.001
Barium (Ba)	<0.00005	<0.00005	0.00007	0.00015	mg/L	0.00005
Beryllium (Be)	<0.0002	<0.0002	<0.0002	<0.0002	mg/L	0.0002
Bismuth (Bi)	---	<0.00003	---	---	mg/L	0.00003
Calcium (Ca)	0.03	<0.02	0.04	---	mg/L	0.02
Cadmium (Cd)	<0.00005	<0.00005	<0.00005	<0.00005	mg/L	0.00005
Cobalt (Co)	<0.0001	<0.0001	<0.0001	<0.0001	mg/L	0.0001
Chromium (Cr)	<0.00006	<0.00006	<0.00006	<0.00006	mg/L	0.00006
Copper (Cu)	<0.0006	<0.0006	<0.0006	<0.0006	mg/L	0.0006
Iron (Fe)	<0.005	<0.005	<0.005	<0.005	mg/L	0.005
Lithium (Li)	---	<0.0001	---	---	mg/L	0.0001
Mercury (Hg)	<0.00002	<0.00002	<0.00002	<0.00002	mg/L	0.00002
Potassium (K)	<0.02	<0.02	<0.02	<0.02	mg/L	0.02
Magnesium (Mg)	<0.004	<0.004	<0.004	<0.004	mg/L	0.004
Manganese (Mn)	<0.0001	<0.0001	<0.0001	0.0002	mg/L	0.0001
Molybdenum (Mo)	<0.00006	<0.00006	<0.00006	<0.00006	mg/L	0.00006
Sodium (Na)	0.152	0.148	0.239	0.592	mg/L	0.005
Nickel (Ni)	<0.00006	<0.00006	<0.00006	<0.00006	mg/L	0.00006
Lead (Pb)	<0.00005	<0.00005	<0.00005	<0.00005	mg/L	0.00005
Antimony (Sb)	0.00047	0.00008	0.00021	---	mg/L	0.00003
Selenium (Se)	<0.0001	<0.0001	<0.0001	<0.0001	mg/L	0.0001
Strontium (Sr)	<0.0001	<0.0001	0.0001	0.0002	mg/L	0.0001
Silicon (Si)	---	<0.1	---	---	mg/L	0.1
Tin (Sn)	---	0.0006	---	---	mg/L	0.0001
Uranium (U)	<0.00005	<0.00005	<0.00005	<0.00005	mg/L	0.00005
Vanadium (V)	<0.00005	<0.00005	0.00118	<0.00005	mg/L	0.00005
Zinc (Zn)	<0.0008	<0.0008	<0.0008	0.0009	mg/L	0.0008
Dissolved Ultra-Low Level Metals						
Silver (Ag)	<0.0001	<0.0001	<0.0001	<0.0001	mg/L	0.0001
Aluminum (Al)	0.0008	<0.0003	0.0022	0.0018	mg/L	0.0003
Arsenic (As)	<0.00003	<0.00003	<0.00003	<0.00003	mg/L	0.00003
Boron (B)	<0.001	<0.001	<0.001	<0.001	mg/L	0.001
Barium (Ba)	<0.00005	<0.00005	0.00007	0.00014	mg/L	0.00005
Beryllium (Be)	<0.0002	<0.0002	<0.0002	<0.0002	mg/L	0.0002
Bismuth (Bi)	---	<0.00003	---	---	mg/L	0.00003
Calcium (Ca)	0.06	0.06	0.06	0.17	mg/L	0.02
Cadmium (Cd)	<0.00005	<0.00005	<0.00005	<0.00005	mg/L	0.00005
Cobalt (Co)	<0.0001	<0.0001	<0.0001	<0.0001	mg/L	0.0001
Chromium (Cr)	<0.00006	<0.00006	<0.00006	<0.00006	mg/L	0.00006
Copper (Cu)	<0.0006	<0.0006	<0.0006	<0.0006	mg/L	0.0006
Iron (Fe)	<0.005	<0.005	<0.005	<0.005	mg/L	0.005
Lithium (Li)	---	<0.0001	---	---	mg/L	0.0001
Mercury (Hg)	<0.00002	<0.00002	<0.00002	<0.00002	mg/L	0.00002
Potassium (K)	<0.02	<0.02	<0.02	<0.02	mg/L	0.02
Magnesium (Mg)	<0.004	<0.004	<0.004	0.004	mg/L	0.004
Manganese (Mn)	<0.0001	<0.0001	<0.0001	0.0001	mg/L	0.0001
Molybdenum (Mo)	<0.00006	<0.00006	<0.00006	<0.00006	mg/L	0.00006
Sodium (Na)	0.166	0.156	0.24	0.611	mg/L	0.005
Nickel (Ni)	0.0001	0.00008	0.00007	0.0001	mg/L	0.00006
Lead (Pb)	<0.00005	<0.00005	<0.00005	<0.00005	mg/L	0.00005
Antimony (Sb)	0.00029	0.00009	---	0.0003	mg/L	0.00003
Selenium (Se)	<0.0001	<0.0001	<0.0001	<0.0001	mg/L	0.0001
Strontium (Sr)	0.0001	<0.0001	0.0001	0.0003	mg/L	0.0001
Silicon (Si)	---	<0.1	---	---	mg/L	0.1
Tin (Sn)	---	0.0005	---	---	mg/L	0.0001
Uranium (U)	<0.00005	<0.00005	<0.00005	<0.00005	mg/L	0.00005
Vanadium (V)	<0.00005	<0.00005	<0.00005	<0.00005	mg/L	0.00005
Zinc (Zn)	0.0015	0.002	0.0015	0.003	mg/L	0.0008

APPENDIX

APPENDIX D ANALYTICAL RESULTS OF MACTUNG FILTER BLANKS - 2006

APPENDIX D. ANALYTICAL RESULTS OF MACTUNG FILTER BLANKS - 2006						
Analyte	**15-17 June**	**8-9 July**	**5-6 August**	**20 September**	**Units**	**Detection Limits**
Dissolved Ultra-Low Level Metals						
Silver (Ag)	<0.0001	<0.0001	---	<0.0001	mg/L	0.0001
Aluminum (Al)	0.0008	0.0007	---	0.0008	mg/L	0.0003
Arsenic (As)	<0.00003	<0.00003	---	<0.00003	mg/L	0.00003
Boron (B)	<0.001	<0.001	---	<0.001	mg/L	0.001
Barium (Ba)	<0.00005	0.00018	---	0.00009	mg/L	0.00005
Beryllium (Be)	<0.0002	<0.0002	---	<0.0002	mg/L	0.0002
Bismuth (Bi)	---	<0.00003	---	---	mg/L	0.00003
Calcium (Ca)	0.06	0.2	---	0.18	mg/L	0.02
Cadmium (Cd)	<0.00005	<0.00005	---	<0.00005	mg/L	0.00005
Cobalt (Co)	<0.0001	<0.0001	---	<0.0001	mg/L	0.0001
Chromium (Cr)	<0.00006	0.00042	---	0.00009	mg/L	0.00006
Copper (Cu)	<0.0006	<0.0006	---	<0.0006	mg/L	0.0006
Iron (Fe)	<0.005	<0.005	---	<0.005	mg/L	0.005
Lithium (Li)	---	<0.0001	---	---	mg/L	0.0001
Mercury (Hg)	<0.00002	<0.00002	---	<0.00002	mg/L	0.00002
Potassium (K)	<0.02	0.02	---	0.02	mg/L	0.02
Magnesium (Mg)	<0.004	0.005	---	<0.004	mg/L	0.004
Manganese (Mn)	<0.0001	0.0002	---	<0.0001	mg/L	0.0001
Molybdenum (Mo)	<0.00006	<0.00006	---	<0.00006	mg/L	0.00006
Sodium (Na)	0.166	0.168	---	0.088	mg/L	0.005
Nickel (Ni)	0.0001	0.001	---	0.00031	mg/L	0.00006
Lead (Pb)	<0.00005	<0.00005	---	<0.00005	mg/L	0.00005
Antimony (Sb)	0.00029	0.00073	---	0.00039	mg/L	0.00003
Selenium (Se)	<0.0001	<0.0001	---	<0.0001	mg/L	0.0001
Strontium (Sr)	0.0001	0.0004	---	0.0003	mg/L	0.0001
Silicon (Si)	---	<0.1	---	---	mg/L	0.1
Tin (Sn)	---	<0.0001	---	---	mg/L	0.0001
Uranium (U)	<0.00005	<0.00005	---	<0.00005	mg/L	0.00005
Vanadium (V)	<0.00005	<0.00005	---	<0.00005	mg/L	0.00005
Zinc (Zn)	0.0015	0.008	---	0.0071	mg/L	0.0008