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REPORT ON

SURFACE WATER AND SEDIMENT QUALITY MONITORING REPORT FEBRUARY 2007 TO JANUARY 2008 JUNIOR LAKE PROPERTY

Submitted to:

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1.0 INTRODUCTION

Landore Resources Canada Inc. (Landore) is currently exploring and developing a nickel-copper platinum group elements deposit at its Junior Lake Property in Northern Ontario. Landore retained Golder Associates Ltd. (Golder) in late 2006, to implement a quarterly baseline surface water and sediment quality monitoring program for the Junior Lake Property (the Project). The purpose of this sampling is to characterize the local water quality and sediment conditions in potential receiving water environments. This data will be required for supporting documentation for permit application to various regulatory agencies, should the Project be developed as a commercial mining operation.

It is Golder's understanding that the Ontario Ministry of the Environment (MOE) requires baseline surface water quality information from Landore for any Certificate of Approval (Sewage) application associated with a potential mine project, while the Ontario Ministry of Northern Development and Mines (MNDM) will require similar information to support any Closure Plan requirements under Part VII of the *Mining Act*. In addition to these requirements, Golder is also aware that Landore will be required to supply baseline water quality information to Environment Canada under the Metal Mining Effluent Regulations (MMER) to fulfill the "site characterization" and "initial monitoring" requirements contained in the Environmental Effects Monitoring section of the MMER. The information compiled from this monitoring program will also assist in meeting that requirement.

2.0 SITE SETTING

The Project is located in Northern Ontario, northeast of Lake Nipigon, approximately 105 km east of the Town of Armstrong and 405 km south-southwest from the City of Thunder Bay (Figure 1). Access to the Project is by road (East Road) from Matheson.

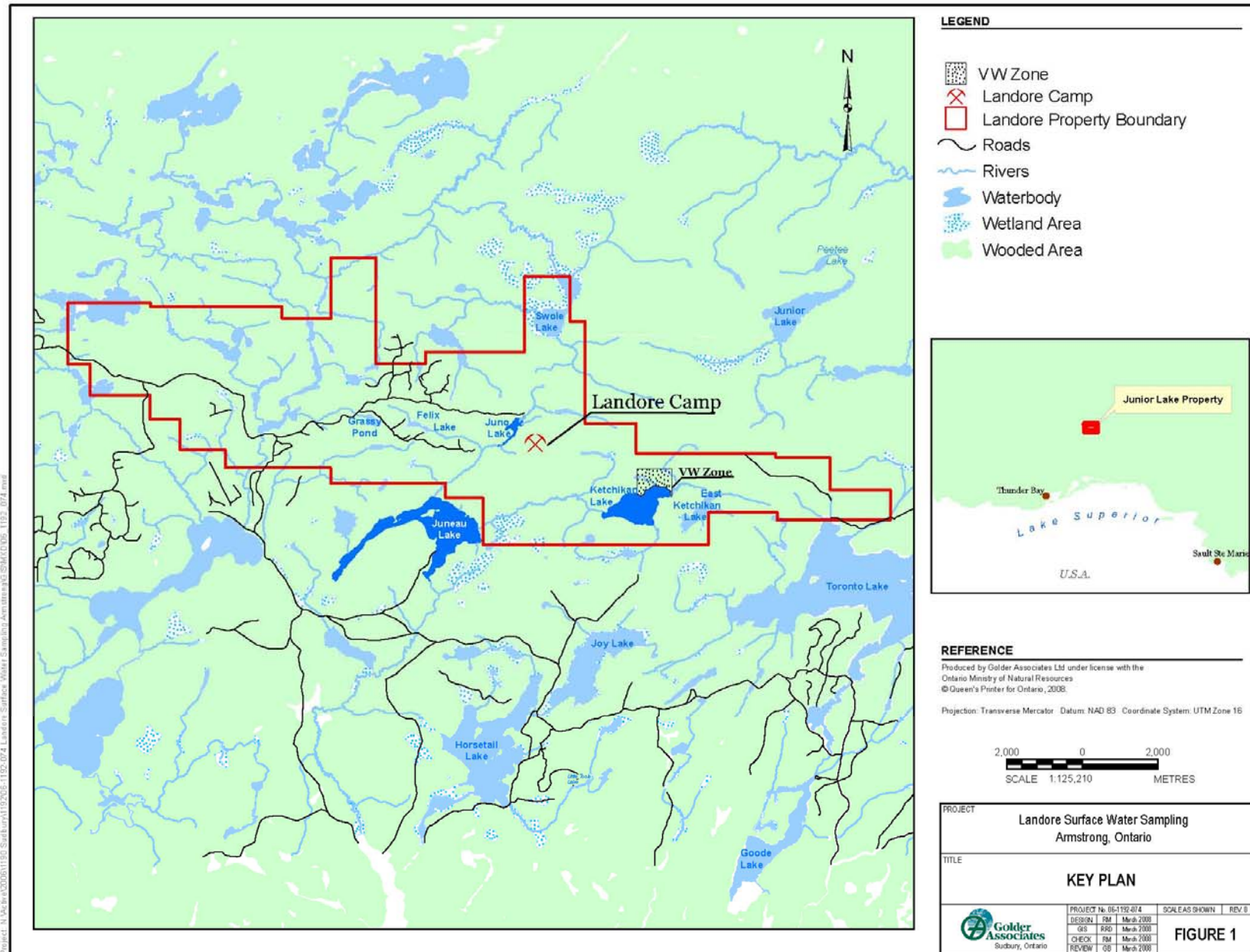
Lakes sampled at the Project include Ketchikan Lake, Juno Lake, and Juneau Lake. Stream sampling locations included an unnamed stream flowing from Ketchikan Lake to Juneau Lake and an unnamed stream flowing from Juno Lake to Juneau Lake. Sample stations were identified as follows:

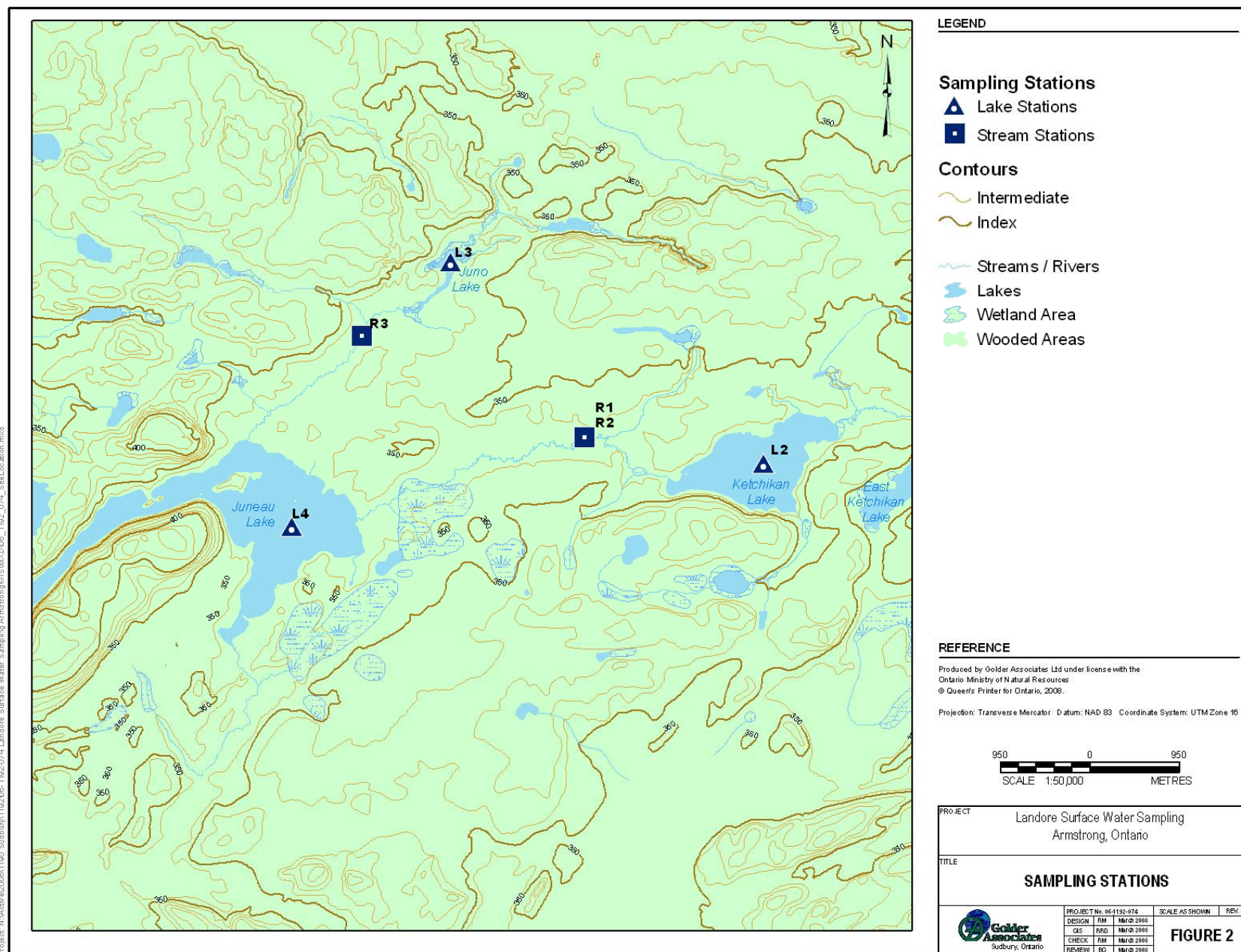
- Ketchikan Lake – L2;
- Juno Lake – L3;
- Juneau Lake – L4;
- Stream between Ketchikan Lake and Juneau Lake – R2; and
- Stream between Juno Lake and Juneau Lake – R3.

Sampling stations are indicated in Figure 2. Global positioning System (GPS) coordinates for sampling stations are provided in Table 1. Station coordinates were established using a hand-held GPS unit and are subject to position errors. Site photographs for each sampling station are included in Appendix A.

TABLE 1
LOCATIONS (UTM, NAD 83) OF SAMPLING STATIONS

	Ketchikan Lake	Juno Lake	Juneau Lake	Stream stations		
Sampling station	L2	L3	L4	R1	R2	R3
Easting	435614	432293	430613	R2 duplicate	433712	431346
Northing	5580215	5582352	5579546	R2 duplicate	5580479	5581557





3.0 2007 SURFACE WATER AND SEDIMENT QUALITY MONITORING PROGRAM

The 2007 water quality monitoring program consisted of surface water sample collection and Quality Assurance/Quality Control (QA/QC) sample collection and laboratory analysis. Five rounds of water samples (February 2007, June 2007, August 2007, November 2007 and January 2008) were collected from three lakes and two streams. The fifth round of water sampling was required due to ice conditions that prevented sampling at all stations in November 2007. One round of sediment samples were collected concurrently with the second round of water samples in June 2007. Landore employees were trained in water sampling techniques during the June 2007 sampling period and carried out the quarterly sampling program for the remaining duration of the Project.

3.1 Surface Water Quality and Sediment Sampling Protocol and Analysis

Golder employed sampling protocol such that representative water quality samples were obtained at each station. One sample was collected from each stream site. Three samples were collected from each lake with the exception of Juno Lake, a shallow lake averaging approximately one metre in depth. Lake samples were denoted as surface (S), mid-depth (M) and near bottom (B). A duplicate sample was taken during each sample round for QA/QC purposes. Field parameters (pH, conductivity, temperature and dissolved oxygen) were measured at each sample station.

Surface water quality samples were analyzed by Testmark Laboratories Ltd. (Testmark) of Garson, Ontario. The validity of analytical data for each analytical batch was assessed using QA/QC measures associated both with laboratory and field procedures.

The surface water samples taken for the specific analyses were collected, prepared and preserved using the sampling protocols found in Table 2.

TABLE 2
SAMPLING PROTOCOLS

Analytical Parameters	Preparation and Preservation Protocols
General chemistry (TDS, alkalinity, chloride, etc.)	Plastic bottle, unfiltered and unpreserved
Ammonia	Glass bottle, unfiltered and preserved to pH <2 with sulphuric acid
Metals (except aluminum and mercury)	Plastic bottle, unfiltered and preserved to pH <2 with nitric acid
Aluminum and mercury	Plastic bottle, lab filtered to 0.45 microns and preserved to pH <2 with nitric acid

3.2 Quality Assurance/Quality Control Program

Golder institute a QA/QC component into the field program. This program is completed to assess the possibility of contamination of the water quality samples during sampling or to detect analytical errors. The potential source and degree of contamination, or degree or lack of analytical accuracy, may then possibly be identified and addressed.

QA/QC protocols include the use of trained personnel, proper sampling methods, clean containers and equipment, proper sample preservation and transportation and detailed documentation of the entire sampling process including chain-of-custody forms to track the movement of samples from the field until they arrive at the laboratory. Golder's Technical Procedures in conjunction with applicable Metal Mining Environmental Effects Monitoring guidance document protocol (Environment Canada 2002) were utilized for the Project on the understanding that additional sampling may be required as part of a future monitoring program, sample site locations were identified and recorded using hand-held GPS co-ordinates. Where applicable, field measurements and field notes were recorded on water-proof paper, using permanent marker.

For sample analysis, Golder retained Testmark, who operates under an internal Quality Assurance Program (QAP), to meet requirements for laboratory accreditation with the Canadian Association of Environmental Laboratories (CAEL). Their policies and procedures conform to the following relevant national and international standards for laboratory competency:

- CAN/CSA Z753 – Requirements for the Competence of Environmental Analytical Laboratories; and
- ISO GUIDE 25 – General Requirements for the Competence of Calibration and Testing Laboratories.

The laboratory has provided their internal quality control data of replicates, blanks and control standards with each report. Golder's QA/QC procedures involve the collection of one blind field duplicate sample and a review of laboratory blanks, laboratory duplicates, surrogate recoveries and field duplicates during each sampling round to ensure quality control of laboratory analysis.

3.3 Sampling Methods

Three water samples (surface, mid-column, near bottom) were obtained from Ketchikan Lake (L2) and Juneau Lake (L4) during each sampling event. Station L2 had a depth of approximately 19 m. Surface samples at L2 were taken approximately 1 m below the lake surface; mid-column samples were taken at approximately 9 m and bottom samples at approximately 18 m. Station L4 had a depth of approximately 5.5 m. Surface samples at L4 were taken approximately 1 m below the lake surface; mid-column samples were taken at approximately 3 m and bottom samples at approximately 4.5 m. Samples from station L3 (Juno Lake) were collected as surficial grabs as

Juno lake is very shallow, averaging approximately only 1 m in depth. Similarly, stream stations R2 and R3 were collected as surficial grab samples.

Prior to sample collection, sample jars provided by Testmark were rinsed three times in the field with ambient water at each sampling station. Stream samples were collected by hand for each of the sampling events. A Kemmerer sampler was used to collect lake water in February 2007 and January 2008. A Van Dorn sampler was used to collect the remaining water samples in June, August and November 2007.

Water samples were shipped with completed chain-of-custody forms, by courier, from Thunder Bay to Testmark for analysis. Water samples collected during the first round of sampling, in February 2007, were submitted for the following analysis: total dissolved solids, total suspended solids (TSS), total organic carbon (TOC), dissolved organic carbon, ammonium, alkalinity, hardness, sulphate, nitrate, nitrite, chloride, fluoride, and ICP MS dissolved metals scan and an ICP MS total metals scan. Subsequent water samples were analyzed for the same parameters with the addition of total phosphorus. Laboratory analyses were completed using detection limits below current water quality guidelines, whenever possible.

Field water quality measurements including temperature, dissolved oxygen, pH, and conductivity were recorded using an YSI model 566 handheld meter at each of the sample locations.

One composite sediment sample was collected from each of the five water sampling locations in conjunction with the June 2007 round of water sampling. A petite Ponar grab was used to obtain an undisturbed sediment sample at each location. The top few centimetres of the sample from each Petite Ponar grab were removed with a stainless steel spoon and placed in an appropriate glass sample container. Sediment samples were submitted to Testmark for analysis of TOC and ICP MS metals scan. Laboratory analyses were completed using detection limits below applicable sediment quality guidelines, whenever possible.

3.4 Results and Discussion

Surface water quality results were compared to the applicable MOE Provincial Water Quality Objectives (PWQO) criteria established for surface waters, as stated in the MOE document *“Water Management Policies, Guidelines, Provincial Water Quality Objectives of the Ministry of the Environment and Energy”* (1994,). Water quality results applicable to MMER criteria were also compared (2002). Complete surface water quality results are tabulated in Appendix B. Laboratory analytical records for each sample period are provided in Appendix C.

Sediment quality results were compared to the applicable MOE Provincial Sediment Quality Guidelines (PSQG) criteria as stated in the MOE document *“Guidelines for the protection and*

management of aquatic sediment quality in Ontario” (1993). Sediment quality results are tabulated in Appendix D. Laboratory analytical records for each sample period are provided in Appendix C.

3.4.1 Surface Water Quality

A summary of the surface water quality results is presented as follows in Table 3.

TABLE 3
SUMMARY OF SURFACE WATER QUALITY RESULTS

Surface Water Monitoring Station	Parameters Exceeding PWQO	Parameters Exceeding MMER	Trend(s)	Interpretation
Ketchikan Lake				
L2-S	Total phosphorus	No exceedances	• Total phosphorus levels above suggested PWQO for ice free period. • Other water quality parameters generally consistent over time.	• Surface water station L2-S is located south of the VW exploration site on Ketchikan Lake. • There is no firm PWQO objective for total phosphorous. Levels above PWQO likely reflect local site specific conditions. • Water quality is interpreted to be reflective of background conditions for Ketchikan Lake.
L2-M	Total phosphorus, total boron	No exceedances	• Total phosphorus levels slightly above suggested PWQO for ice free period. • Total boron consistent over time with exception of one result above Interim PWQO criteria in February 2007. • Other water quality parameters generally consistent over time.	• Same location as L2-S, but at a depth of 8 to 10 m. • There is no firm PWQO objective for total phosphorous. Levels above PWQO likely reflect local site specific conditions. • Boron exceedance suspected as anomalous result due to sampling or laboratory method. • Water quality is interpreted to be reflective of background conditions for Ketchikan Lake.
L2-B	Total phosphorus	No exceedances	• Total phosphorus levels slightly above suggested PWQO for ice free period. • Other water quality parameters generally consistent over time.	• Same location as L2-S but at a depth of 16 to 19 m. • There is no firm PWQO objective for total phosphorous. Levels above PWQO likely reflect local site specific conditions. • Water quality is interpreted to be reflective of background conditions for Ketchikan Lake.

Surface Water Monitoring Station	Parameters Exceeding PWQO	Parameters Exceeding MMER	Trend(s)	Interpretation
Juno Lake				
L3-S	Total phosphorus, total copper	TSS	• Total phosphorus levels consistently above PWQO. • Total copper consistent over time with exception of one exceedance of Interim PWQO in January 2008. • TSS below MMER (< detection limit) with exception of one exceedances in January 2008. • Other water quality parameters generally consistent over time.	• Surface water station L3-S is located northwest of the Project exploration camp. • There is no firm PWQO objective for total phosphorous. Levels above PWQO likely reflect local site specific conditions. • Total copper exceedance suspected as an anomalous result due to sampling or laboratory method (January 2008). • TSS exceedance suspected as an anomalous result due to sampling. • Water quality is interpreted to be reflective of background conditions for Juno Lake.
Juneau Lake				
L4-S	Total phosphorus, total copper	No exceedance	• Total phosphorus levels consistently above PWQO. • Total copper consistent over time with exception of one sample slightly above Interim PWQO in February 2007. • Other water quality parameters generally consistent over time.	• Surface water station L4-S is located southeast of the VW Zone on Juneau Lake. • There is no firm PWQO objective for total phosphorous. Levels above PWQO likely reflect local site specific conditions. • Total copper exceedance suspected as an anomalous result due to sampling or laboratory method (January 2007). • Water quality is interpreted to be reflective of background conditions for Juneau Lake.

Surface Water Monitoring Station	Parameters Exceeding PWQO	Parameters Exceeding MMER	Trend(s)	Interpretation
L4-M	Total phosphorus	No exceedance	- Total phosphorus levels consistently above PWQO criteria. - Other water quality parameters generally consistent over time.	- Same location as L4-S but sampled at a depth of 2 to 3 m. - There is no firm PWQO objective for total phosphorous. Levels above PWQO likely reflect local site specific conditions. - Water quality is interpreted to be reflective of background conditions for Juneau Lake.
L4-B	Total phosphorus	No exceedance	- Total phosphorus levels consistently above PWQO criteria. - Other water quality parameters generally consistent over time.	- Same location as L4-S but sampled at a depth of 5 m. - There is no firm PWQO objective for total phosphorous. Levels above PWQO likely reflect local site specific conditions. - Water quality is interpreted to be reflective of background conditions for Juneau Lake.
Streams				
R2	Total phosphorus	No exceedance	Total phosphorus levels above PWQO criteria in August 2007. Other water quality parameters generally consistent over time.	- Surface water station R2 is located downstream from L2 stations, west of VW Zone. - There is no firm PWQO objective for total phosphorous. Levels above PWQO likely reflect local site specific conditions. - Water quality is interpreted to be reflective of background conditions for this stream.

Surface Water Monitoring Station	Parameters Exceeding PWQO	Parameters Exceeding MMER	Trend(s)	Interpretation
R3	Total phosphorus, total iron	No exceedance	• Total phosphorus levels consistently exceed PWQO for ice free period (>20 ug/L). • Total iron consistent over time with exception of one exceedance in February 2007. • Other water quality parameters generally consistent over time.	• Surface water station R3 is located downstream from L3 stations, northwest of VW Zone. • There is no firm PWQO objective for total phosphorous. Levels above PWQO likely reflect local site specific conditions. • Total iron exceedance suspected as an anomalous result due to sampling or laboratory method. • Water quality is interpreted to be reflective of background conditions for this stream.

The phosphorous cycle in lakes involves organic and inorganic phosphorous in both soluble and insoluble forms. Measurements of total phosphorous concentrations account for both of these forms. Phosphorous is a common growth limiting factor for phytoplankton in lakes and streams because it is often found in low concentrations (Horne and Goldman 1994).

Concentrations of total phosphorous at most of the water quality stations sampled were found to be above the applicable PWQO criteria. However, current scientific evidence is insufficient to develop a firm PWQO and as such, the criteria provided are considered by the MOE as a general guideline only. Further, a lack of significant excessive algae or plant growth observed in any of the lakes and streams sampled suggests that current concentrations of phosphorous are within a suitable range for these waterbodies and are representative of current background conditions for the area.

Total copper concentrations above the applicable PWQO criteria were observed on one occasion each at Juno and Juneau Lakes. The majority of all water quality results saw copper concentrations at these lakes at less than the applicable PWQO criteria. This suggests that these results were anomalous, possibly due to contamination of the samples during collection or as potential laboratory error. Sediment sample results for these two lakes do indicate naturally high levels of copper, suggesting that particulate matter introduced into the water samples may have resulted in these two isolated results.

There was one MMER exceedances of TSS from Juno Lake, in a sample collected during the winter. This result is likely an anomalous one as there are no other exceedances reported. Given the winter sampling period and relatively shallow depth of Juno Lake (~1 m), it may be possible that particulate matter was suspended in the water column by the ice auger touching bottom. For Juno, it is also noted that the copper concentration previously discussed was associated with this elevated TSS reading.

3.4.2 Sediment Quality

A summary of the sediment quality results is presented in Table 4.

TABLE 4
SUMMARY OF SEDIMENT QUALITY RESULTS

Sediment Monitoring Station	Parameters Exceeding PSQG LEL	Parameters Exceeding PSQG SEL	Interpretation
Ketchikan Lake			
L2	Arsenic, cadmium, chromium, copper, lead, manganese, mercury, nickel, zinc, TOC	Arsenic, manganese, TOC	Sediment quality results reported are interpreted to be representative of typical conditions.
Juno Lake			
L3	Copper, nickel, TOC	TOC	Sediment quality results reported are interpreted to be representative of typical conditions.
Juneau Lake			
L4	Chromium, copper, manganese, nickel, TOC	No exceedance	Sediment quality results reported are interpreted to be representative of typical conditions.
Streams			
R2	Copper, TOC	No exceedance	Sediment quality results reported are interpreted to be representative of typical conditions.
R3	TOC	No exceedance	Sediment quality results reported are interpreted to be representative of typical conditions.

A variety of sediment quality parameters were found at concentrations above the applicable PSQG criteria. Parameters with concentrations that exceeded the Lowest Effect Level (LEL), a level at which elevated concentrations have no effect on the majority of sediment dwelling organisms, were found in Ketchikan Lake (arsenic, cadmium, chromium, copper, lead, manganese, mercury, nickel, TOC and zinc) Juno Lake (copper, nickel and TOC), Juneau Lake (chromium, copper, manganese, nickel and TOC), and Streams R2 (copper and TOC) and R3 (TOC).

Parameters with concentrations that exceeded the Severe Effect Level (SEL), a level at which elevated concentrations are likely to affect the health of sediment dwelling organisms, included Ketchikan Lake (arsenic, manganese, TOC) and Juno Lake (TOC).

With the exception of recent forestry operations within the Project area, there is no known direct anthropomorphic disturbance within these waterbodies that would account for the elevated levels of some of these select parameters. However, the MOE recognizes that in an area as geologically diverse as Ontario, local natural sediments levels of metals and nutrients such as TOC may vary considerably and in some cases may be naturally high. This is particularly true for the Project where the presence of a base metal ore body likely accounts in part for the presence of elevated concentrations of arsenic, copper, nickel and zinc. Other potential sources for elevated concentrations (i.e. the SEL levels for manganese) may include long range air borne transmission of pollutants from other industrial or urban areas.

Regardless, given the current condition of these lakes and streams, it is assumed that the sediment concentrations observed are a reflection of current background/natural conditions.

4.0 IMPORTANT INFORMATION AND LIMITATIONS OF THIS REPORT

4.1 Standard of Care

Golder has prepared this report in a manner consistent with that level of care and skill ordinarily exercised by members of the engineering and science professions currently practicing under similar conditions in the jurisdiction in which the services are provided, subject to the time limits and physical constraints applicable to this report. No other warranty, expressed or implied is made.

4.2 Basis and Use of the Report

This report has been prepared for the specific site, design objective, development and purpose described to Golder by Landore Resources Canada Inc. (Landore). The factual data, interpretations and recommendations pertain to a specific project as described in this report and are not applicable to any other project or site location. Any change of site conditions, purpose, development plans or if the project is not initiated within eighteen months of the date of the report may alter the validity of the report. Golder can not be responsible for use of this report, or portions thereof, unless Golder is requested to review and, if necessary, revise the report.

The information, recommendations and opinions expressed in this report are for the sole benefit of Landore. *If the report was prepared to be included for a specific permit application or other government process (as specifically identified in the body of the report), then the applicable regulatory, municipal, or other governmental authority may use this report for the specific and identified purpose of the applicable permit review or other government process as identified in the report. No other party may use or rely on this report or any portion thereof without Golder's express written consent. Any other use of this report by others is prohibited and is without responsibility to Golder.* The report, all plans, data, drawings and other documents as well as all electronic media prepared by Golder are considered its professional work product and shall remain the copyright property of Golder, who authorizes only Landore and Approved Users to make copies of the report, but only in such quantities as are reasonably necessary for the use of the report by those parties. Landore and Approved Users may not give, lend, sell, or otherwise make available the report or any portion thereof to any other party without the express written permission of Golder. Landore acknowledges that electronic media is susceptible to unauthorized modification, deterioration and incompatibility and therefore Landore can not rely upon the electronic media versions of Golder's report or other work products.

The report is of a summary nature and is not intended to stand alone without reference to the instructions given to Golder by Landore, communications between Golder and Landore, and to any other reports prepared by Golder for Landore relative to the specific site described in the report. *In order to properly understand the suggestions, recommendations and opinions*

expressed in this report, reference must be made to the whole of the report. Golder can not be responsible for use of portions of the report without reference to the entire report.

Unless otherwise stated, the suggestions, recommendations and opinions given in this report are intended only for the guidance of Landore in the design of the specific project.

5.0 CLOSURE

We trust that with this report we have fulfilled the current requirements of Landore with respect to this Project. Should you require any further information, please feel free to contact the undersigned.

GOLDER ASSOCIATES LTD.



Jennifer Braun, M.Sc.
Terrestrial Biologist



Brian Grant, P.Eng.
Associate/Water Resources Engineer

JB/RM/BG/lis

6.0 REFERENCES

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Horne, Alexander J. and C.R. Goldman. 1994. Limnology, 2nd edition. McGraw Hill Inc., New York. 575pp.

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Ministry of Environment and Energy (Ontario). August 1993. Guidelines for the Protection and Management of Aquatic Sediment Quality in Ontario.

APPENDIX A
SITE PHOTOGRAPHS

Project: Landore Surface Water Quality Monitoring		
Client: Landore Resources Canada Inc.		Project Number: 06-1192-074
Site Name: Junior Lake Property		Site Location: Thunder Bay
Photographer: JD	Date: April 2008	Drawn By: JB
Photograph 1 Ketchikan Lake		
Photograph 2 Juno Lake		

Project: Landore Surface Water Quality Monitoring		
Client: Landore Resources Canada Inc.		Project Number: 06-1192-074
Site Name: Junior Lake Property		Site Location: Thunder Bay
Photographer: JD	Date: April 2008	Drawn By: JB
Photograph 3 Juneau Lake		
Photograph 4 Station R2		

April 2008

Appendix A

06-1192-074

Project: Landore Surface Water Quality Monitoring		
Client: Landore Resources Canada Inc.	Project Number: 06-1192-074	
Site Name: Junior Lake Property	Site Location: Thunder Bay	
Photographer: JD	Date: April 2008	Drawn By: JB
Photograph 5 Station R3		

APPENDIX B

SURFACE WATER QUALITY RESULTS

Appendix B
Analytical Results - Surface Water Quality
Junior Lake Property, Landore Resources Canada Inc.

Ketchikan Lake

Parameter	Units	MDL	PWQO	MMER	27-Feb-07			5-Jun-07			17-Aug-07			21-Nov-07		
					L2-S	L2-M	L2-B	L2 - S	L2 - M	L2 - B	L2-S	L2-M	L2-B	L2 - S	L2 - M	L2 - B
General Chemistry																
Ammonia (as N)	µg/L	0.002	-	-	0.0359	0.0289	0.0213	0.037	0.053	0.064	0.026	0.03	0.052	0.049	0.043	0.026
Un-ionized Ammonia (as NH3)	µg/L	-	0.02	-	0.000157	0.000157	0.000157	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Calcium	mg/L	0.05	-	-	-	-	-	13.4	13.3	13.9	13.4	12.9	13.4	14.1	12.7	13.3
Chloride	mg/L	0.2	-	-	0.38	0.35	0.34	0.25	0.23	0.23	0.41	0.33	0.48	0.52	0.43	0.52
Dissolved Organic Carbon	mg/L	0.4	-	-	8.1	8.5	7.8	13.4	13.1	12.7	13	12	7	11	11	13
Dissolved Phosphorus	µg/L	50	-	-	<50	<50	<50	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Magnesium	mg/L	0.004	-	-	-	-	-	2.92	2.94	3.15	3.65	3.55	3.09	3.15	2.66	2.9
M-Alkalinity as CaCO3 (pH 4.5)	mg/L	10	-	-	42	40	38	45	41	43	44	45	87	34	34	34
Nitrate (as N)	mg/L	0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrite (as N)	mg/L	0.03	-	-	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Sulfate	mg/L	1	-	-	1.3	1.2	1.2	1.1	1.1	1.1	2	1	1.1	<1	1.1	1.1
Total Dissolved Solids	mg/L	25	-	-	62	54	61	86	83	75	68	76	83	41	40	69
Total Hardness (as CaCO3)	mg/L	0.1	-	-	47.1	43.9	47	45.6	45.3	47.7	48.6	46.9	46.2	48.2	42.8	45
Total Organic Carbon	mg/L	0.4	-	-	9	8.6	8.2	10.1	10.7	10.3	15	12	11	13	11	13
Total Phosphorus	µg/L	50/20* ¹	20* ²	-	<50	<50	<50	42	23	27	23	25	21	22	24	28
Total Suspended Solids	mg/L	6	-	15	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
Field Parameters																
Water Temperature	(°C)	-	-	-	2	4	1.1	13.7	9.8	5.44	12.24	-	-	3.3	-	-
Dissolved Oxygen	(mg/L)	-	5 - 8* ³	-	12.45	10.32	10.23	10.3	9.44	8.6	6.77	-	-	11.67	-	-
Conductivity	(µS/cm)	-	-	-	70	70	50	75	66	62	75	-	-	56	-	-
pH	pH	-	6.5 - 8.5	-	7.66	7.18	8.03	7.1	7.3	7.13	7.13	-	-	7	-	-

Appendix B
Analytical Results - Surface Water Quality
Junior Lake Property, Landore Resources Canada Inc.

Ketchikan Lake

Parameter	Units	MDL	PWQO	MMER	27-Feb-07			5-Jun-07			17-Aug-07			21-Nov-07		
					L2-S	L2-M	L2-B	L2 - S	L2 - M	L2 - B	L2-S	L2-M	L2-B	L2 - S	L2 - M	L2 - B
Total Metals																
Total Aluminum	µg/L	1	-	-	15	11.8	12.4	23.8	27.3	16	30.2	27.8	28.6	26	23.6	26.3
Total Antimony	µg/L	0.5	(20)	-	2.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Arsenic	µg/L	1	100 (5)	500	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Barium	µg/L	1	-	-	6.2	6	5.8	5.7	5.8	5.6	5.4	5	4.9	5.9	5.6	5.7
Total Beryllium	µg/L	0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Bismuth	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Boron	µg/L	2	(200)	-	3.4	344	136	<2	<2	<2	6.1	6.3	4.7	<2	<2	<2
Total Cadmium	µg/L	0.1	(0.1-0.5)* ⁴	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Calcium	µg/L	50	-	-	15000	14500	14100	13200	13900	14200	14400	13600	13900	14100	14400	14800
Total Cerium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Cesium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Chromium	µg/L	1	8.9* ⁵	-	1.6	1.5	1.6	1.2	<1	1.3	<1	<1	<1	<1	<1	<1
Total Cobalt	µg/L	0.1	0.9	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.14	<0.1	<0.1	<0.1
Total Copper	µg/L	1	(1-5)* ⁶	300	<1	<1	<1	1.4	2.4	1.3	<1	<1	<1	<1	<1	<1
Total Europium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Gallium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Iron	µg/L	20	300	-	26	45	<20	<20	<20	<20	33	20	36	<20	<20	23
Total Lanthanum	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Lead	µg/L	1	(1-5)* ⁷	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Lithium	µg/L	5	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Total Magnesium	µg/L	4	-	-	3390	3020	3090	3090	2950	3280	3940	3780	3590	2920	2950	3170
Total Manganese	µg/L	1	-	-	1.2	1.6	1.9	2	2.4	3.5	3.2	2.8	2.7	3.9	4	4.5
Total Mercury	µg/L	0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Molybdenum	µg/L	1	(40)	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Nickel	µg/L	1	25	500	1.5	1.4	1.5	1.2	2.3	2.3	1.5	1.4	1.2	<1	<1	<1
Total Niobium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Rubidium	µg/L	1	-	-	1.4	1.3	1.3	1.4	1.2	1.3	1.3	1.2	1.3	1.2	1.3	1.3
Total Scandium	µg/L	1	-	-	2.9	2.8	2.9	7.8	8.6	9.8	<1	<1	1.7	<1	<1	<1
Total Selenium	µg/L	1	100	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Silver	µg/L	0.1	0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Appendix B
Analytical Results - Surface Water Quality
Junior Lake Property, Landore Resources Canada Inc.

Ketchikan Lake

Parameter	Units	MDL	PWQO	MMER	27-Feb-07			5-Jun-07			17-Aug-07			21-Nov-07		
					L2-S	L2-M	L2-B	L2 - S	L2 - M	L2 - B	L2-S	L2-M	L2-B	L2 - S	L2 - M	L2 - B
Total Strontium	µg/L	1	-	-	17.3	16.4	16.2	15	14.3	15.7	15.6	15.1	14.3	14	15.1	15
Total Thallium	µg/L	0.1	(0.3)	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Thorium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Tin	µg/L	1	-	-	<1	2.7	1.3	2.4	1.3	1.8	<1	<1	<1	<1	<1	<1
Total Titanium	µg/L	1	-	-	<1	<1	<1	<1	<1	1.6	<1	<1	<1	<1	<1	<1
Total Tungsten	µg/L	1	(30)	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Uranium	µg/L	1	(5)	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Vanadium	µg/L	1	(6)	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Yttrium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Zinc	µg/L	1	30 (20)	500	<1	<1	<1	4.4	1.7	<1	2.1	3.9	1.5	1.1	1.2	2
Total Zirconium	µg/L	1	(4)	-	<1	<1	<1	<1	<1	<1	<1	<1	1.4	<1	<1	<1
Dissolved Metals																
Dissolved Aluminum	µg/L	1	(15-75) ^a	-	8.2	6.9	8.3	14.1	14.1	8.4	17.2	17.3	18.8	15.3	16.3	15.1
Dissolved Antimony	µg/L	0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dissolved Arsenic	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Barium	µg/L	1	-	-	5.7	4.7	5	5.1	4.7	4.9	5.1	4.2	4.6	4.3	3.4	4.5
Dissolved Beryllium	µg/L	0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dissolved Bismuth	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Boron	µg/L	2	-	-	<2	<2	<2	<2	<2	<2	5.4	5	2.6	<2	<2	<2
Dissolved Cadmium	µg/L	0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dissolved Calcium	µg/L	50	-	-	13200	12800	12100	12100	11800	13300	10500	10500	12400	16300	15800	15500
Dissolved Cerium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Cesium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Chromium	µg/L	1	-	-	1.4	1.2	1.2	<1	<1	<1	<1	<1	<1	2.9	3.1	3.1
Dissolved Cobalt	µg/L	0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dissolved Copper	µg/L	1	-	-	<1	<1	<1	1.1	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Europium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Gallium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Iron	µg/L	20	-	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Dissolved Lanthanum	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Lead	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Lithium	µg/L	5	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Dissolved Magnesium	µg/L	4	-	-	3060	2790	2870	2840	2880	2890	2730	2710	2530	3210	3130	3200
Dissolved Manganese	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Mercury	µg/L	0.1	0.2	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dissolved Molybdenum	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Nickel	µg/L	1	-	-	1.1	1.2	1	<1	1.5	1.2	1.1	1.1	1.1	<1	1	1.1
Dissolved Niobium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Phosphorus	µg/L	50	-	-	<50	<50	<50	-	-	-	-	-	-	-	-	-

Appendix B
Analytical Results - Surface Water Quality
Junior Lake Property, Landore Resources Canada Inc.

Ketchikan Lake

Parameter	Units	MDL	PWQO	MMER	27-Feb-07			5-Jun-07			17-Aug-07			21-Nov-07		
					L2-S	L2-M	L2-B	L2 - S	L2 - M	L2 - B	L2-S	L2-M	L2-B	L2 - S	L2 - M	L2 - B
Dissolved Rubidium	µg/L	1	-	-	1.3	1.2	1.2	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.4
Dissolved Scandium	µg/L	1	-	-	1.2	1.1	1.2	1.6	1.6	1.7	<1	<1	<1	3.7	3.7	3.4
Dissolved Selenium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Silver	µg/L	0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dissolved Strontium	µg/L	1	-	-	16.1	15.4	15.9	14.9	13.7	15.5	14.1	13.9	13.8	15.4	15.1	15.7
Dissolved Thallium	µg/L	0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dissolved Thorium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Tin	µg/L	1	-	-	<1	1.7	1.1	1.4	1	1	<1	<1	<1	<1	<1	<1
Dissolved Titanium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Tungsten	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.1	<1
Dissolved Uranium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Vanadium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Yttrium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Zinc	µg/L	1	-	-	<1	<1	<1	2.2	<1	<1	1.1	1.2	1.2	2.1	1.8	3.9
Dissolved Zirconium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Appendix B
Analytical Results - Surface Water Quality
Junior Lake Property, Landore Resources Canada Inc.

Juno Lake

Parameter	Units	MDL	PWQO	MMER	5-Jun-07	17-Aug-07	1-Jan-08
					L3-S	L3-S	L3-S
General Chemistry							
Ammonia (as N)	µg/L	0.002	-	-	0.053	0.033	0.12
Un-ionized Ammonia (as NH3)	µg/L	-	0.02	-	0.00	0.00	0.00
Calcium	mg/L	0.05	-	-	13.8	23	22.8
Chloride	mg/L	0.2	-	-	<0.2	0.25	0.33
Dissolved Organic Carbon	mg/L	0.4	-	-	22.2	11	23
Dissolved Phosphorus	µg/L	50	-	-	-	-	-
Fluoride	mg/L	0.1	-	-	<0.1	<0.1	<0.1
Magnesium	mg/L	0.004	-	-	2.07	2.9	2.94
M-Alkalinity as CaCO3 (pH 4.5)	mg/L	10	-	-	40	76	63
Nitrate (as N)	mg/L	0.1	-	-	<0.1	<0.1	<0.1
Nitrite (as N)	mg/L	0.03	-	-	<0.03	<0.03	<0.03
Sulfate	mg/L	1	-	-	1.2	1.5	1
Total Dissolved Solids	mg/L	25	-	-	95	110	190
Total Hardness (as CaCO3)	mg/L	0.1	-	-	43.1	69.3	69
Total Organic Carbon	mg/L	0.4	-	-	18.7	14	23
Total Phosphorus	µg/L	50/20* ¹	20* ²	-	24	67	62.2
Total Suspended Solids	mg/L	6	-	15	<6	<6	34
Field Parameters							
Water Temperature	(°C)	-	-	-	13.4	14.96	-
Dissolved Oxygen	(mg/L)	-	5 - 8* ³	-	10.65	11.92	-
Conductivity	(µS/cm)	-	-	-	68	114	-
pH	pH	-	6.5 - 8.5	-	6.87	8.23	-
Total Metals							
Total Aluminum	µg/L	1	-	-	66.2	47	326
Total Antimony	µg/L	0.5	(20)	-	<0.5	<0.5	<0.5
Total Arsenic	µg/L	1	100 (5)	500	<1	<1	<1
Total Barium	µg/L	1	-	-	4.9	6.1	1.4
Total Beryllium	µg/L	0.5	-	-	<0.5	<0.5	<0.5
Total Bismuth	µg/L	1	-	-	<1	<1	<1
Total Boron	µg/L	2	(200)	-	<2	3.7	<2
Total Cadmium	µg/L	0.1	(0.1-0.5)* ⁴	-	<0.1	<0.1	<0.1
Total Calcium	µg/L	50	-	-	15800	24700	28600
Total Cerium	µg/L	1	-	-	<1	<1	<1
Total Cesium	µg/L	1	-	-	<1	<1	<1
Total Chromium	µg/L	1	8.9* ⁵	-	<1	<1	<1
Total Cobalt	µg/L	0.1	0.9	-	<0.1	0.13	0.24

Appendix B
Analytical Results - Surface Water Quality
Junior Lake Property, Landore Resources Canada Inc.

Juno Lake

Parameter	Units	MDL	PWQO	MMER	5-Jun-07	17-Aug-07	1-Jan-08
					L3-S	L3-S	L3-S
Total Copper	µg/L	1	(1-5)* ^b	300	1.6	1.5	20.1
Total Europium	µg/L	1	-	-	<1	<1	<1
Total Gallium	µg/L	1	-	-	<1	<1	<1
Total Iron	µg/L	20	300	-	<20	34	274
Total Lanthanum	µg/L	1	-	-	<1	<1	<1
Total Lead	µg/L	1	(1-5)* ⁱ	200	<1	<1	1.4
Total Lithium	µg/L	5	-	-	<5	<5	<5
Total Magnesium	µg/L	4	-	-	2160	3990	3160
Total Manganese	µg/L	1	-	-	2.7	2.6	30
Total Mercury	µg/L	0.1	-	-	<0.1	<0.1	<0.1
Total Molybdenum	µg/L	1	(40)	-	<1	<1	<1
Total Nickel	µg/L	1	25	500	1.2	1.5	1.6
Total Niobium	µg/L	1	-	-	<1	<1	<1
Total Rubidium	µg/L	1	-	-	1.5	<1	1.4
Total Scandium	µg/L	1	-	-	7.8	1.7	<1
Total Selenium	µg/L	1	100	-	<1	<1	<1
Total Silver	µg/L	0.1	0.1	-	<0.1	<0.1	<0.1
Total Strontium	µg/L	1	-	-	12.1	19.5	19.3
Total Thallium	µg/L	0.1	(0.3)	-	<0.1	<0.1	<0.1
Total Thorium	µg/L	1	-	-	<1	<1	<1
Total Tin	µg/L	1	-	-	1.9	<1	45.2
Total Titanium	µg/L	1	-	-	<1	1.4	8
Total Tungsten	µg/L	1	(30)	-	<1	<1	<1
Total Uranium	µg/L	1	(5)	-	<1	<1	<1
Total Vanadium	µg/L	1	(6)	-	<1	<1	<1
Total Yttrium	µg/L	1	-	-	<1	<1	<1
Total Zinc	µg/L	1	30 (20)	500	3.6	2.9	18.6
Total Zirconium	µg/L	1	(4)	-	2.7	1	<1
Dissolved Metals							
Dissolved Aluminum	µg/L	1	(15-75)* ^b	-	50.2	12.2	11.6
Dissolved Antimony	µg/L	0.5	-	-	<0.5	<0.5	<0.5
Dissolved Arsenic	µg/L	1	-	-	<1	<1	<1
Dissolved Barium	µg/L	1	-	-	4.3	6.1	3.7
Dissolved Beryllium	µg/L	0.5	-	-	<0.5	<0.5	<0.5
Dissolved Bismuth	µg/L	1	-	-	<1	<1	<1
Dissolved Boron	µg/L	2	-	-	<2	<2	<2
Dissolved Cadmium	µg/L	0.1	-	-	<0.1	<0.1	<0.1
Dissolved Calcium	µg/L	50	-	-	12100	21400	13100

Appendix B
Analytical Results - Surface Water Quality
Junior Lake Property, Landore Resources Canada Inc.

Juno Lake

Parameter	Units	MDL	PWQO	MMER	5-Jun-07	17-Aug-07	1-Jan-08
					L3-S	L3-S	L3-S
Dissolved Cerium	µg/L	1	-	-	<1	<1	<1
Dissolved Cesium	µg/L	1	-	-	<1	<1	<1
Dissolved Chromium	µg/L	1	-	-	<1	<1	<1
Dissolved Cobalt	µg/L	0.1	-	-	<0.1	0.12	<0.1
Dissolved Copper	µg/L	1	-	-	1.5	1.2	<1
Dissolved Europium	µg/L	1	-	-	<1	<1	<1
Dissolved Gallium	µg/L	1	-	-	<1	<1	<1
Dissolved Iron	µg/L	20	-	-	<20	30	70
Dissolved Lanthanum	µg/L	1	-	-	<1	<1	<1
Dissolved Lead	µg/L	1	-	-	<1	<1	<1
Dissolved Lithium	µg/L	5	-	-	<5	<5	<5
Dissolved Magnesium	µg/L	4	-	-	2040	2270	1670
Dissolved Manganese	µg/L	1	-	-	<1	<1	10.3
Dissolved Mercury	µg/L	0.1	0.2	-	<0.1	<0.1	<0.1
Dissolved Molybdenum	µg/L	1	-	-	<1	<1	<1
Dissolved Nickel	µg/L	1	-	-	<1	1.5	<1
Dissolved Niobium	µg/L	1	-	-	<1	<1	<1
Dissolved Phosphorus	µg/L	50	-	-	-	-	-
Dissolved Rubidium	µg/L	1	-	-	1.2	<1	<1
Dissolved Scandium	µg/L	1	-	-	1.4	<1	2
Dissolved Selenium	µg/L	1	-	-	<1	<1	<1
Dissolved Silver	µg/L	0.1	-	-	<0.1	<0.1	<0.1
Dissolved Strontium	µg/L	1	-	-	12	15	11.7
Dissolved Thallium	µg/L	0.1	-	-	<0.1	<0.1	<0.1
Dissolved Thorium	µg/L	1	-	-	<1	<1	<1
Dissolved Tin	µg/L	1	-	-	1.1	<1	1.2
Dissolved Titanium	µg/L	1	-	-	<1	<1	<1
Dissolved Tungsten	µg/L	1	-	-	<1	<1	<1
Dissolved Uranium	µg/L	1	-	-	<1	<1	<1
Dissolved Vanadium	µg/L	1	-	-	<1	<1	<1
Dissolved Yttrium	µg/L	1	-	-	<1	<1	<1
Dissolved Zinc	µg/L	1	-	-	<1	1.5	<1
Dissolved Zirconium	µg/L	1	-	-	<1	<1	<1

Appendix B
Analytical Results - Surface Water Quality
Junior Lake Property, Landore Resources Canada Inc.

Juneau Lake

Parameter	Units	MDL	PWQO	MMER	27-Feb-07			5-Jun-07			1-Aug-07			1-Jan-08			
					L4-S	L4-M	L4-B	L4 - S	L4 - M	L4 - B	L4-S	L4-M	L4-B	L4-S	L4-S Dup	L4-M	L4-B
General Chemistry																	
Ammonia (as N)	µg/L	0.002	-	-	0.026	0.0397	0.0292	0.064	0.1	0.049	0.015	0.028	0.073	0.5	-	0.06	0.06
Un-ionized Ammonia (as NH3)	µg/L	-	0.02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Calcium	mg/L	0.05	-	-	-	-	-	13.3	13.5	13.4	14.9	14.6	14.6	33.3	-	20.7	22.3
Chloride	mg/L	0.2	-	-	0.34	0.4	0.37	0.21	<0.2	<0.2	0.33	0.28	0.25	0.59	-	0.29	<0.2
Dissolved Organic Carbon	mg/L	0.4	-	-	11	10.9	11.7	17	15.1	16.3	10	10	14	21	-	21	20
Dissolved Phosphorus	µg/L	50	-	-	<50	<50	<50	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
Magnesium	mg/L	0.004	-	-	-	-	-	2.81	2.82	2.75	2.67	2.66	2.67	5.15	-	3.59	4.09
M-Alkalinity as CaCO3 (pH 4.5)	mg/L	10	-	-	49	51	52	50	44	42	50	56	48	39	37	37	34
Nitrate (as N)	mg/L	0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
Nitrite (as N)	mg/L	0.03	-	-	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-	<0.03	<0.03
Sulfate	mg/L	1	-	-	1.5	1.5	1.5	1.2	1.2	1.1	1.1	1.2	1	1.1	-	<1	<1
Total Dissolved Solids	mg/L	25	-	-	80	93	87	100	85	90	87	89	68	210	-	160	240
Total Hardness (as CaCO3)	mg/L	0.1	-	-	56.9	58.8	57.9	44.9	45.3	44.8	48.2	47.5	47.4	104	-	66.4	72.6
Total Organic Carbon	mg/L	0.4	-	-	11.1	11.5	11.1	12.6	13.5	14.7	12	13	16.4	23	-	21	20
Total Phosphorus	µg/L	50/20* ¹	20* ²	-	<50	96	<50	21	30	26	75	132	30	39.4	-	65.9	72.3
Total Suspended Solids	mg/L	6	-	15	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	-	<6	<6
Field Parameters																	
Water Temperature	(°C)	-	-	-	0.3	1.4	2.4	12.67	12.59	12.16	-	-	-	-	-	-	-
Dissolved Oxygen	(mg/L)	-	5 - 8* ³	-	13.56	10.9	11.68	-	-	-	-	-	-	-	-	-	-
Conductivity	(µS/cm)	-	-	-	90	90	90	93	93	92	-	-	-	-	-	-	-
pH	pH	-	6.5 - 8.5	-	7.97	7.99	7.99	7.32	7.25	7.23	-	-	-	-	-	-	-
Total Metals																	
Total Aluminum	µg/L	1	-	-	10.9	10.7	13.5	51	51.1	65.6	82.6	53	70	37.1	-	47	45.7

Appendix B
Analytical Results - Surface Water Quality
Junior Lake Property, Landore Resources Canada Inc.

Juneau Lake

Parameter	Units	MDL	PWQO	MMER	27-Feb-07			5-Jun-07			1-Aug-07			1-Jan-08			
					L4-S	L4-M	L4-B	L4 - S	L4 - M	L4 - B	L4-S	L4-M	L4-B	L4-S	L4-S Dup	L4-M	L4-B
Total Antimony	µg/L	0.5	(20)	-	<0.5	<0.5	<0.5	1.6	<0.5	<0.5	<0.5	<0.5	<0.5	4.4	-	13.3	<0.5
Total Arsenic	µg/L	1	100 (5)	500	<1	<1	<1	1.2	<1	<1	<1	<1	<1	<1	-	1.1	<1
Total Barium	µg/L	1	-	-	7	7.7	7.2	6	6.3	6.3	5.8	5.4	5.6	5.3	-	5.8	<1
Total Beryllium	µg/L	0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
Total Bismuth	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1
Total Boron	µg/L	2	(200)	-	79.6	51.1	35.6	4	<2	<2	4.7	4.7	4.6	<2	-	2.4	<2
Total Cadmium	µg/L	0.1	(0.1-0.5)* ⁴	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
Total Calcium	µg/L	50	-	-	17600	18100	18000	13900	14400	13700	15200	15000	14900	14700	-	15500	17300
Total Cerium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1
Total Cesium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1
Total Chromium	µg/L	1	8.9* ⁵	-	1.9	1.7	1.9	<1	<1	<1	1.3	<1	<1	<1	-	<1	<1
Total Cobalt	µg/L	0.1	0.9	-	<0.1	<0.1	<0.1	0.42	0.11	<0.1	<0.1	0.79	<0.1	<0.1	-	<0.1	<0.1
Total Copper	µg/L	1	(1-5)* ⁶	300	5.9	1.2	1.8	<1	1.4	1.7	1	<1	1.4	<1	-	<1	<1
Total Europium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1
Total Gallium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1
Total Iron	µg/L	20	300	-	29	32	37	<20	<20	<20	130	96	130	110	-	110	<20
Total Lanthanum	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1
Total Lead	µg/L	1	(1-5)* ⁷	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1
Total Lithium	µg/L	5	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5	<5
Total Magnesium	µg/L	4	-	-	3720	3970	3970	3050	2900	2960	3840	3950	3940	2660	-	3360	2700
Total Manganese	µg/L	1	-	-	1.3	1.2	1.4	5.8	5.2	6.1	25.3	22.3	25.1	2.3	-	2.3	2.8
Total Mercury	µg/L	0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
Total Molybdenum	µg/L	1	(40)	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	3.6	<1
Total Nickel	µg/L	1	25	500	1.8	1.7	2	1.6	1.3	1.4	1.6	1.4	1.5	<1	-	1	<1
Total Niobium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1
Total Rubidium	µg/L	1	-	-	1.4	1.5	1.5	1.3	1.3	1.5	1.4	1.3	1.4	1.4	-	1.3	1.1
Total Scandium	µg/L	1	-	-	2.6	2.7	2.6	1.5	6.9	6.2	1.7	1.7	1.8	<1	-	<1	<1
Total Selenium	µg/L	1	100	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	2	<1
Total Silver	µg/L	0.1	0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
Total Strontium	µg/L	1	-	-	18.5	19.1	19.3	14.2	13.6	14.7	14.4	15	14.9	15.1	-	14.4	13
Total Thallium	µg/L	0.1	(0.3)	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
Total Thorium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1
Total Tin	µg/L	1	-	-	<1	5.9	4.1	<1	1.7	<1	<1	<1	<1	<1	-	<1	<1
Total Titanium	µg/L	1	-	-	<1	1	<1	1.2	1.1	1.9	2.2	1.3	2.3	1.1	-	1.2	<1
Total Tungsten	µg/L	1	(30)	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1

Appendix B
Analytical Results - Surface Water Quality
Junior Lake Property, Landore Resources Canada Inc.

Juneau Lake

Parameter	Units	MDL	PWQO	MMER	27-Feb-07			5-Jun-07			1-Aug-07			1-Jan-08			
					L4-S	L4-M	L4-B	L4 - S	L4 - M	L4 - B	L4-S	L4-M	L4-B	L4-S	L4-S Dup	L4-M	L4-B
Total Uranium	µg/L	1	(5)	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1
Total Vanadium	µg/L	1	(6)	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1
Total Yttrium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1
Total Zinc	µg/L	1	30 (20)	500	4.8	1.1	1	12.1	4.8	2.1	2	1.2	1.7	<1	-	<1	<1
Total Zirconium	µg/L	1	(4)	-	<1	<1	<1	<1	<1	<1	1	1.4	<1	1.6	-	1.5	<1
Dissolved Metals																	
Dissolved Aluminum	µg/L	1	(15-75)* ⁸	-	9.7	6.3	5.3	21.9	23.9	29	16.9	16	16.4	22.5	22.4	-	34.1
Dissolved Antimony	µg/L	0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
Dissolved Arsenic	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1

Appendix B
Analytical Results - Surface Water Quality
Junior Lake Property, Landore Resources Canada Inc.

Juneau Lake

Parameter	Units	MDL	PWQO	MMER	27-Feb-07			5-Jun-07			1-Aug-07			1-Jan-08			
					L4-S	L4-M	L4-B	L4 - S	L4 - M	L4 - B	L4-S	L4-M	L4-B	L4-S	L4-S Dup	L4-M	L4-B
Dissolved Barium	µg/L	1	-	-	6.3	6.8	6.4	4.9	5.1	4.8	5.3	4.6	5.5	4.7	3.8	-	5.2
Dissolved Beryllium	µg/L	0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
Dissolved Bismuth	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1
Dissolved Boron	µg/L	2	-	-	<2	<2	2.7	<2	<2	<2	2.4	2.4	3.2	<2	<2	-	<2
Dissolved Cadmium	µg/L	0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1
Dissolved Calcium	µg/L	50	-	-	16000	16600	17000	12450	12600	12700	13400	13500	13300	12000	11600	-	14700
Dissolved Cerium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1
Dissolved Cesium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1
Dissolved Chromium	µg/L	1	-	-	1.6	1.6	1.6	<1	<1	<1	<1	<1	<1	<1	<1	-	<1
Dissolved Cobalt	µg/L	0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1
Dissolved Copper	µg/L	1	-	-	<1	<1	<1	<1	<1	1.2	<1	<1	1.1	<1	<1	-	1.8
Dissolved Europium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1
Dissolved Gallium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1
Dissolved Iron	µg/L	20	-	-	<20	<20	<20	<20	<20	<20	40	38	38	<20	<20	-	62
Dissolved Lanthanum	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1
Dissolved Lead	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1
Dissolved Lithium	µg/L	5	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5
Dissolved Magnesium	µg/L	4	-	-	3560	3630	3650	2535	2790	2580	2070	2090	2070	2310	2140	-	2900
Dissolved Manganese	µg/L	1	-	-	1.3	<1	<1	<1	<1	<1	<1	<1	<1	1.2	1.7	-	1.8
Dissolved Mercury	µg/L	0.1	0.2	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1
Dissolved Molybdenum	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1
Dissolved Nickel	µg/L	1	-	-	1.2	1.2	1.2	1.5	<1	1	1.2	1.3	<1	<1	<1	-	<1
Dissolved Niobium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1
Dissolved Phosphorus	µg/L	50	-	-	<50	<50	<50	-	-	-	-	-	-	-	-	-	-
Dissolved Rubidium	µg/L	1	-	-	1.4	1.4	1.4	1.3	1.2	1.4	1.2	1.3	1.3	1.2	1.1	-	1.4
Dissolved Scandium	µg/L	1	-	-	1.1	1.1	1.1	1.2	1.1	1.2	<1	<1	<1	1.3	1.4	-	3.7
Dissolved Selenium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1
Dissolved Silver	µg/L	0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1
Dissolved Strontium	µg/L	1	-	-	18.1	17.8	18.5	13.4	12.6	13.9	12.7	14.6	14.6	12.2	11.3	-	15.3
Dissolved Thallium	µg/L	0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1
Dissolved Thorium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1
Dissolved Tin	µg/L	1	-	-	<1	3.6	3.1	<1	1.1	<1	<1	<1	<1	<1	<1	-	<1
Dissolved Titanium	µg/L	1	-	-	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	-	<1
Dissolved Tungsten	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1
Dissolved Uranium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1

Appendix B
Analytical Results - Surface Water Quality
Junior Lake Property, Landore Resources Canada Inc.

Juneau Lake

Parameter	Units	MDL	PWQO	MMER	27-Feb-07			5-Jun-07			1-Aug-07			1-Jan-08			
					L4-S	L4-M	L4-B	L4 - S	L4 - M	L4 - B	L4-S	L4-M	L4-B	L4-S	L4-S Dup	L4-M	L4-B
Dissolved Vanadium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1
Dissolved Yttrium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1
Dissolved Zinc	µg/L	1	-	-	1.2	<1	<1	8.8	3	<1	1.8	<1	1.1	1.5	<1	-	4.3
Dissolved Zirconium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	1.5

Appendix B
Analytical Results - Surface Water Quality
Junior Lake Property, Landore Resources Canada Inc.

Stream Stations

Parameter	Units	MDL	PWQO	MMER	27-Feb-07			5-Jun-07			17-Aug-07			21-Nov-07		
					R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3
General Chemistry																
Ammonia (as N)	µg/L	0.002	-	-	0.019	0.0229	0.231	0.059	0.035	0.07	-	0.035	0.035	0.019	0.013	0.016
Un-ionized Ammonia (as NH3)	µg/L	-	0.02		-	0.00	0.00	-	0.00	0.00	-	0.00	-	-	0.00	0.00
Calcium	mg/L	0.05	-	-	-	-	-	12.5	12.7	12.6	-	18.1	21.4	-	13.1	14.1
Chloride	mg/L	0.2	-	-	0.5	0.42	0.86	0.25	0.2	0.21	-	0.26	0.35	-	0.48	0.23
Dissolved Organic Carbon	mg/L	0.4	-	-	7.8	6.3	18	15.3	15	24	-	13	18.5	16	14	18
Dissolved Phosphorus	µg/L	50	-	-	<50	<50	<50	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1
Magnesium	mg/L	0.004	-	-	-	-	-	2.76	2.8	1.96	-	2.99	3.77	-	2.69	2.2
M-Alkalinity as CaCO3 (pH 4.5)	mg/L	10	-	-	45	46	118	38	43	34	-	59	65	-	32	29
Nitrate (as N)	mg/L	0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1
Nitrite (as N)	mg/L	0.03	-	-	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-	<0.03	<0.03	-	<0.03	<0.03
Sulfate	mg/L	1	-	-	1.5	1.4	1.5	1.2	1.2	1.1	-	<1	<1	-	1.1	1
Total Dissolved Solids	mg/L	25	-	-	63.5	65	160	73	68	75	-	84	110	-	25	71
Total Hardness (as CaCO3)	mg/L	0.1	-	-	55.3	51.7	101	42.5	43.3	39.6	-	57.4	68.8	-	43.8	44.3
Total Organic Carbon	mg/L	0.4	-	-	7.6	7.5	18.7	12.2	11.9	20.2	-	17.2	19.9	-	14	18
Total Phosphorus	µg/L	50/20* ¹	30* ²	-	<50	<50	<50	24	23	20	-	33	32	-	22	25
Total Suspended Solids	mg/L	6	-	15	<6	<6	<6	<6	<6	7.5	-	<6	<6	-	<6	<6
Field Parameters																
Water Temperature	(°C)	-	-	-	-	0	1	-	14.5	9.79	-	14.69	12.87	-	0.87	0.34
Dissolved Oxygen	(mg/L)	-	5 - 8* ³	-	-	12.5	11.21	-	8.85	8.37	-	11.21	8.33	-	13.9	11.6
Conductivity	(µS/cm)	-	-	-	-	90	20	-	72	54	-	97	104	-	47	70
pH	pH	-	6.5 - 8.5	-	-	8.05	7.34	-	6.65	6.56	-	7.52	6.78	-	6.56	6.65
Total Metals																
Total Aluminum	µg/L	1	-	-	15.7	16.3	45.9	29.4	27.6	91.6	-	39.5	45.9	-	28.9	66.8
Total Antimony	µg/L	0.5	(20)	-	<0.5	<0.5	1.1	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5
Total Arsenic	µg/L	1	100 (5)	500	<1	<1	2.6	<1	<1	1.9	-	<1	2.8	-	<1	1.1
Total Barium	µg/L	1	-	-	8.1	8.2	13.3	5.6	5.7	5.5	-	8	6.8	-	5.4	4.1
Total Beryllium	µg/L	0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5
Total Bismuth	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-	<1	<1
Total Boron	µg/L	2	(200)	-	2.6	2.3	<2	<2	<2	<2	-	7	6.6	-	<2	<2
Total Cadmium	µg/L	0.1	(0.1-0.5)* ⁴	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1
Total Calcium	µg/L	50	-	-	17400	17500	33500	13800	13400	13250	-	18000	20800	-	14700	14700
Total Cerium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-	<1	<1
Total Cesium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-	<1	<1
Total Chromium	µg/L	1	8.9* ⁵	-	1.9	1.8	5.2	1.4	1.3	1.3	-	<1	<1	-	<1	<1
Total Cobalt	µg/L	0.1	0.9	-	<0.1	<0.1	0.5	<0.1	<0.1	<0.1	-	0.19	0.33	-	<0.1	<0.1

Appendix B
Analytical Results - Surface Water Quality
Junior Lake Property, Landore Resources Canada Inc.

Stream Stations

Parameter	Units	MDL	PWQO	MMER	27-Feb-07			5-Jun-07			17-Aug-07			21-Nov-07		
					R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3
Total Copper	µg/L	1	(1-5) ^{*b}	300	<1	<1	<1	<1	1.1	1.9	-	1.8	1.2	-	<1	<1
Total Europium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-	<1	<1
Total Gallium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-	<1	<1
Total Iron	µg/L	20	300	-	21	31	709	<20	<20	<20	-	110	140	-	<20	42
Total Lanthanum	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-	<1	<1
Total Lead	µg/L	1	(1-5) ^{*f}	200	<1	<1	<1	<1	<1	<1	-	<1	<1	-	<1	<1
Total Lithium	µg/L	5	-	-	<5	<5	<5	<5	<5	<5	-	<5	<5	-	<5	<5
Total Magnesium	µg/L	4	-	-	3580	3620	5180	2890	2810	2080	-	3900	3830	-	2940	2230
Total Manganese	µg/L	1	-	-	3.6	3.8	502	1.7	1.6	4.8	-	7.5	16.4	-	3.4	3.1
Total Mercury	µg/L	0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1
Total Molybdenum	µg/L	1	(40)	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-	<1	<1
Total Nickel	µg/L	1	25	500	1.6	1.6	3.5	2.2	2.2	1.4	-	4.1	3.2	-	<1	<1
Total Niobium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-	<1	<1
Total Rubidium	µg/L	1	-	-	1.3	1.3	2	1.3	1.2	1.6	-	1.1	1.1	-	1.1	1.1
Total Scandium	µg/L	1	-	-	3.5	3.2	8.2	8.7	8	6.6	-	1.2	1.5	-	<1	<1
Total Selenium	µg/L	1	100	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-	<1	<1
Total Silver	µg/L	0.1	0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1
Total Strontium	µg/L	1	-	-	19.1	19.2	33.2	13.9	14.7	12.6	-	17.5	21.4	-	13.9	12.6
Total Thallium	µg/L	0.1	(0.3)	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1
Total Thorium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-	<1	<1
Total Tin	µg/L	1	-	-	<1	<1	<1	2	1.2	1.6	-	<1	<1	-	<1	<1
Total Titanium	µg/L	1	-	-	<1	<1	2.4	<1	<1	1.8	-	1.5	1.8	-	<1	1.2
Total Tungsten	µg/L	1	(30)	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-	<1	<1
Total Uranium	µg/L	1	(5)	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-	<1	<1
Total Vanadium	µg/L	1	(6)	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-	<1	<1
Total Yttrium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-	<1	<1
Total Zinc	µg/L	1	30 (20)	500	1.9	11.2	<1	<1	<1	3.2	-	<1	1.8	-	<1	1.7
Total Zirconium	µg/L	1	(4)	-	<1	1.1	1.3	<1	<1	<1	-	<1	<1	-	2.1	2
Dissolved Metals																
Dissolved Aluminum	µg/L	1	(15-75) ^{*g}	-	7.3	6.4	27.3	18.8	19.5	54.7	-	22.7	26.8	-	24.9	55.2
Dissolved Antimony	µg/L	0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5
Dissolved Arsenic	µg/L	1	-	-	<1	<1	1.3	<1	<1	1.3	-	<1	1.2	-	<1	2.2

Appendix B
Analytical Results - Surface Water Quality
Junior Lake Property, Landore Resources Canada Inc.

Stream Stations

Parameter	Units	MDL	PWQO	MMER	27-Feb-07			5-Jun-07			17-Aug-07			21-Nov-07		
					R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3
Dissolved Barium	µg/L	1	-	-	7.3	7.3	12.5	5	5.2	4.5	-	7.2	6.4	-	4	3.4
Dissolved Beryllium	µg/L	0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	0.61
Dissolved Bismuth	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-	<1	<1
Dissolved Boron	µg/L	2	-	-	<2	<2	<2	<2	<2	<2	-	<2	5	-	<2	<2
Dissolved Cadmium	µg/L	0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	0.31
Dissolved Calcium	µg/L	50	-	-	15900	14900	32100	11100	11000	11900	-	13400	18700	-	16300	15900
Dissolved Cerium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-	<1	<1
Dissolved Cesium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-	<1	<1
Dissolved Chromium	µg/L	1	-	-	1.6	1.5	4.2	<1	<1	<1	-	<1	<1	-	3.3	3.2
Dissolved Cobalt	µg/L	0.1	-	-	<0.1	<0.1	0.49	<0.1	<0.1	<0.1	-	0.12	<0.1	-	<0.1	<0.1
Dissolved Copper	µg/L	1	-	-	<1	<1	<1	<1	1	1.2	-	1.1	<1	-	<1	1
Dissolved Europium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-	<1	<1
Dissolved Gallium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-	<1	<1
Dissolved Iron	µg/L	20	-	-	<20	<20	419	<20	<20	<20	-	41	78	-	<20	62
Dissolved Lanthanum	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-	<1	<1
Dissolved Lead	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-	<1	<1
Dissolved Lithium	µg/L	5	-	-	<5	<5	<5	<5	<5	<5	-	<5	<5	-	<5	<5
Dissolved Magnesium	µg/L	4	-	-	3220	3010	4880	2560	2710	1930	-	2930	3270	-	3500	2500
Dissolved Manganese	µg/L	1	-	-	2	1.7	489	<1	<1	<1	-	1.2	3.5	-	<1	1.4
Dissolved Mercury	µg/L	0.1	0.2	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	0.13
Dissolved Molybdenum	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-	<1	<1
Dissolved Nickel	µg/L	1	-	-	1.2	<1	2.5	1.3	1.6	1.1	-	1.8	1.3	-	1.1	1.2
Dissolved Niobium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-	<1	<1
Dissolved Phosphorus	µg/L	50	-	-	<50	<50	<50	-	-	-	-	-	-	-	-	-
Dissolved Rubidium	µg/L	1	-	-	1.3	1.2	2	1.2	1.1	1.6	-	<1	<1	-	1.5	1.5
Dissolved Scandium	µg/L	1	-	-	1.4	1.3	3.3	1.5	1.5	1.1	-	<1	<1	-	4.3	6
Dissolved Selenium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-	<1	3.6
Dissolved Silver	µg/L	0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1
Dissolved Strontium	µg/L	1	-	-	18.3	16.8	32.5	12.8	13.1	11.6	-	17.5	16.4	-	16	14.8
Dissolved Thallium	µg/L	0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1
Dissolved Thorium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-	<1	<1
Dissolved Tin	µg/L	1	-	-	<1	<1	<1	1	<1	<1	-	<1	<1	-	<1	<1
Dissolved Titanium	µg/L	1	-	-	<1	<1	1.9	<1	<1	<1	-	<1	<1	-	<1	2.1
Dissolved Tungsten	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-	<1	<1
Dissolved Uranium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-	<1	<1
Dissolved Vanadium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-	<1	<1
Dissolved Yttrium	µg/L	1	-	-	<1	<1	<1	<1	<1	<1	-	<1	<1	-	<1	<1
Dissolved Zinc	µg/L	1	-	-	<1	<1	<1	<1	<1	2.6	-	<1	<1	-	3.6	5.4
Dissolved Zirconium	µg/L	1	-	-	<1	<1	1.2	<1	<1	<1	-	<1	<1	-	<1	<1

WATER QUALITY NOTES:

 Values highlighted and in *italics* indicate exceedance of the interim PWQO objective.

 Values highlighted and in bold indicate exceedance of the PWQO objective.

MDL Method Detection Limit

PWQO Provincial Water Quality Objectives

MMER Metal Mining Effluent Regulations (Schedule 4 - Authorization of Deleterious Substances, Max. Conc. in a Single Grab Sample)

(PWQO) Interim PWQO Value

<0.5 Value is less than Method Detection Limit

- No value

*1 MDL dependent on means of detection. MDL for FIA detection = 20 µg/L, MDL for ICPMS detection = 50 µg/L.

*2 Interim PWQO guidelines. To avoid nuisance concentrations in lakes (ice free period), average Total Phosphorus concentrations should not exceed 20 ug/L. To protect against aesthetic deterioration for lakes (ice free period), average Total Phosphorus concentrations should be 10 ug/L or less. In rivers and streams, Total Phosphorus concentrations should be below 30 ug/L.

*3 The PWQO guideline for Dissolved Oxygen is temperature dependent. For temperature ranges of 0-25°C cold water biota values should not be less than 5-8 mg/L, 4-7 mg/L for warm water biota.

*4 The PWQO for Cadmium is currently under development. The value is subject to change upon publication by MOE.

*5 PWQO for hexavalent Chromium = 1.0 µg/L, for trivalent Chromium = 8.9 µg/L .

*6 At Hardness (as CaCO₃) 0-20 PWQO is 1 µg/L; at hardness >20 ug/L PWQO is 5 ug/L.

The PWQO for Copper is currently under development. The value is subject to change upon publication by the MOE.

*7 If Alkalinity as CaCO₃ (mg/L) is <20 mg/L, PWQO for Lead = 5 µg/L. If between 20-40 mg/L, PWQO for Lead = 10 µg/L. If between 40-80 mg/L, PWQO for lead is 20 µg/L. If >80 mg/L, PWQO for Lead = 25 µg/L. The PWQO for lead is under development. The value is subject to change upon publication by the MOE.

*8 Interim PWQO for Aluminum = 15 µg/L for pH 4.5 -6.5 or 75 µg/L for pH 6.5 - 9.0.

(a) If natural background aluminum concentrations in water bodies unaffected by manmade inputs are greater than the numerical Interim PWQO as shown, no condition is permitted that would increase the aluminum concentration in clay-free samples by more than 10% of natural background level.

APPENDIX C
ANALYTICAL RESULTS



TESTMARK Laboratories Ltd.

Committed to Quality and Service

Analytical Report

Client:	Rob Mellow	Work Order Number:	31313
Company:	Golder Associates Ltd. - Sudbury	Date Order Received:	3/2/2007
Address:	1010 Lorne Street Sudbury, Ontario, P3C 4R9	Regulation:	PWQO
Phone:	(705) 524-6861	PO #:	LANDORE RES.
Fax:	(705) 524-1984	Project #:	06-1192-074
Email:	rob_mellow@golder.com		

Analyses were performed on the following samples submitted with your order.

The results relate only to the items tested.

Sample Name	Lab #	Matrix	Comments	Date Collected	Time Collected
R1	111709	Water		2/27/2007	
R2	111710	Water		2/27/2007	
R3	111711	Water		2/27/2007	
L2-S	111712	Water		2/27/2007	
L2-M	111765	Water		2/27/2007	
L2-B	111766	Water		2/27/2007	
L4-S	111767	Water		2/27/2007	
L4-M	111768	Water		2/27/2007	
L4-B	111769	Water		2/27/2007	



TESTMARK Laboratories Ltd.

Committed to Quality and Service

Golder Associates Ltd. - Sudbury

Work Order: 31313

The following instrumentation and references methods were used for your sample(s)

Method Name	Description	Reference
Alk by FIA	Determination of m-Alkalinity by Flow Injection Analysis Instrument group: Skalar San++ FIA	Mod. EPA 310.2
AmmoniaFIA	Determination of Ammonia/Ammonium by Flow Analysis Instrument group: Skalar San++ FIA	Mod. APHA-4500
Anions Water	Determination of Anions by Ion Chromatography Instrument group: Dionex DX300 IC	Mod. SW846-9056
DOC Water	Determination of Dissolved Organic Carbon in Water Instrument group: Dohrman TOC Analyzer	Mod. APHA-5310
Hardness/ICP	Determination of Hardness in Water by ICP Instrument group: Perkin Elmer Elan 5000	Mod. SW846-6020
ICPMS Dis. Water	Determination of Dissolved Metals in Water by ICP/MS Instrument group: Perkin Elmer Elan 5000	Mod. SW846-6020
ICPMS Tot. Water	Determination of Total Metals in Water by ICP/MS with Digestion Instrument group: Perkin Elmer Elan 5000	Mod. SW846-6020
TDS	Determination of Total Dissolved Solids in water by gravimetry Instrument group: Mettler Analytical Balance	Mod. APHA-2540
TOC Water	Determination of Total Organic Carbon in Water Instrument group: Dohrman TOC Analyzer	Mod. APHA-5310
TSS	Determination of Total Suspended Solids in water by gravimetry Instrument group: Mettler Analytical Balance	Mod. APHA-2540

This report has been approved by:

Dr. Xiaojing Li
Chief Chemist

Dr. Robert Hamel
Inorganic Section Head



TESTMARK Laboratories Ltd.

Committed to Quality and Service

Golder Associates Ltd. - Sudbury

Work Order: 31313

Sample Data:

Sample Name: R1

Date: 2/27/2007

Matrix: Water

Lab #: 111709

Alk by FIA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	45	mg/L	20070305.R69A

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.019	mg/L	20070309.R42A

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.5	mg/L	20070302.R5A
Fluoride	0.1	<0.1	mg/L	20070302.R5A
Nitrate (as N)	0.1	<0.1	mg/L	20070302.R5A
Nitrite (as N)	0.03	<0.03	mg/L	20070302.R5A
Sulfate	1	1.5	mg/L	20070302.R5A

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	7.8	mg/L	20070306.R55.1A

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.05	16.4	mg/L	20070302.R13A
Magnesium	0.004	3.49	mg/L	20070302.R13A
Total Hardness (as CaCO ₃)	0.1	55.3	mg/L	20070302.R13A

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	7.3	ug/L	20070302.R13C
Dissolved Antimony	0.5	<0.5	ug/L	20070302.R13C
Dissolved Arsenic	1	<1	ug/L	20070302.R13C
Dissolved Barium	1	7.3	ug/L	20070302.R13C
Dissolved Beryllium	0.5	<0.5	ug/L	20070302.R13C
Dissolved Bismuth	1	<1	ug/L	20070302.R13C
Dissolved Boron	2	<2	ug/L	20070302.R13C
Dissolved Cadmium	0.1	<0.1	ug/L	20070302.R13C
Dissolved Calcium	50	15900	ug/L	20070302.R13C
Dissolved Cerium	1	<1	ug/L	20070302.R13C
Dissolved Cesium	1	<1	ug/L	20070302.R13C
Dissolved Chromium	1	1.6	ug/L	20070302.R13C
Dissolved Cobalt	0.1	<0.1	ug/L	20070302.R13C
Dissolved Copper	1	<1	ug/L	20070302.R13C
Dissolved Europium	1	<1	ug/L	20070302.R13C
Dissolved Gallium	1	<1	ug/L	20070302.R13C
Dissolved Iron	20	<20	ug/L	20070302.R13C
Dissolved Lanthanum	1	<1	ug/L	20070302.R13C
Dissolved Lead	1	<1	ug/L	20070302.R13C
Dissolved Lithium	5	<5	ug/L	20070302.R13C



TESTMARK Laboratories Ltd.

Committed to Quality and Service

Golder Associates Ltd. - Sudbury

Work Order: 31313

Sample Name: R1

Date: 2/27/2007

Matrix: Water

Lab #: 111709

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Magnesium	4	3220	ug/L	20070302.R13C
Dissolved Manganese	1	2	ug/L	20070302.R13C
Dissolved Mercury	0.1	<0.1	ug/L	20070302.R13C
Dissolved Molybdenum	1	<1	ug/L	20070302.R13C
Dissolved Nickel	1	1.2	ug/L	20070302.R13C
Dissolved Niobium	1	<1	ug/L	20070302.R13C
Dissolved Phosphorus	50	<50	ug/L	20070302.R13C
Dissolved Rubidium	1	1.3	ug/L	20070302.R13C
Dissolved Scandium	1	1.4	ug/L	20070302.R13C
Dissolved Selenium	1	<1	ug/L	20070302.R13C
Dissolved Silver	0.1	<0.1	ug/L	20070302.R13C
Dissolved Strontium	1	18.3	ug/L	20070302.R13C
Dissolved Thallium	0.1	<0.1	ug/L	20070302.R13C
Dissolved Thorium	1	<1	ug/L	20070302.R13C
Dissolved Tin	1	<1	ug/L	20070302.R13C
Dissolved Titanium	1	<1	ug/L	20070302.R13C
Dissolved Tungsten	1	<1	ug/L	20070302.R13C
Dissolved Uranium	1	<1	ug/L	20070302.R13C
Dissolved Vanadium	1	<1	ug/L	20070302.R13C
Dissolved Yttrium	1	<1	ug/L	20070302.R13C
Dissolved Zinc	1	<1	ug/L	20070302.R13C
Dissolved Zirconium	1	<1	ug/L	20070302.R13C

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	15.7	ug/L	20070302.R13B
Total Antimony	0.5	<0.5	ug/L	20070302.R13B
Total Arsenic	1	<1	ug/L	20070302.R13B
Total Barium	1	8.1	ug/L	20070302.R13B
Total Beryllium	0.5	<0.5	ug/L	20070302.R13B
Total Bismuth	1	<1	ug/L	20070302.R13B
Total Boron	2	2.6	ug/L	20070302.R13B
Total Cadmium	0.1	<0.1	ug/L	20070302.R13B
Total Calcium	50	17400	ug/L	20070302.R13B
Total Cerium	1	<1	ug/L	20070302.R13B
Total Cesium	1	<1	ug/L	20070302.R13B
Total Chromium	1	1.9	ug/L	20070302.R13B
Total Cobalt	0.1	<0.1	ug/L	20070302.R13B
Total Copper	1	<1	ug/L	20070302.R13B
Total Europium	1	<1	ug/L	20070302.R13B
Total Gallium	1	<1	ug/L	20070302.R13B
Total Iron	20	21	ug/L	20070302.R13B
Total Lanthanum	1	<1	ug/L	20070302.R13B
Total Lead	1	<1	ug/L	20070302.R13B
Total Lithium	5	<5	ug/L	20070302.R13B
Total Magnesium	4	3580	ug/L	20070302.R13B

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Work Order: 31313

Sample Name: R1

Date: 2/27/2007

Matrix: Water

Lab #: 111709

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Manganese	1	3.6	ug/L	20070302.R13B
Total Mercury	0.1	<0.1	ug/L	20070302.R13B
Total Molybdenum	1	<1	ug/L	20070302.R13B
Total Nickel	1	1.6	ug/L	20070302.R13B
Total Niobium	1	<1	ug/L	20070302.R13B
Total Phosphorus	50	<50	ug/L	20070302.R13B
Total Rubidium	1	1.3	ug/L	20070302.R13B
Total Scandium	1	3.5	ug/L	20070302.R13B
Total Selenium	1	<1	ug/L	20070302.R13B
Total Silver	0.1	<0.1	ug/L	20070302.R13B
Total Strontium	1	19.1	ug/L	20070302.R13B
Total Thallium	0.1	<0.1	ug/L	20070302.R13B
Total Thorium	1	<1	ug/L	20070302.R13B
Total Tin	1	<1	ug/L	20070302.R13B
Total Titanium	1	<1	ug/L	20070302.R13B
Total Tungsten	1	<1	ug/L	20070302.R13B
Total Uranium	1	<1	ug/L	20070302.R13B
Total Vanadium	1	<1	ug/L	20070302.R13B
Total Yttrium	1	<1	ug/L	20070302.R13B
Total Zinc	1	1.9	ug/L	20070302.R13B
Total Zirconium	1	<1	ug/L	20070302.R13B

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	65	mg/L	20070306.R27C
Total Dissolved Solids (Dup)	25	62	mg/L	20070306.R27C

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	7.6	mg/L	20070305.R55.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20070306.R27A
Total Suspended Solids (Dup)	6	<6	mg/L	20070306.R27A

Sample Name: R2

Date: 2/27/2007

Matrix: Water

Lab #: 111710

Alk by FIA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	46	mg/L	20070305.R69A

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.0229	mg/L	20070309.R42A



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Work Order: 31313

Sample Name: R2

Date: 2/27/2007

Matrix: Water

Lab #: 111710

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.42	mg/L	20070302.R5A
Fluoride	0.1	<0.1	mg/L	20070302.R5A
Nitrate (as N)	0.1	<0.1	mg/L	20070302.R5A
Nitrite (as N)	0.03	<0.03	mg/L	20070302.R5A
Sulfate	1	1.4	mg/L	20070302.R5A

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	6.3	mg/L	20070306.R55.1A

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.05	15.3	mg/L	20070302.R13A
Magnesium	0.004	3.26	mg/L	20070302.R13A
Total Hardness (as CaCO3)	0.1	51.7	mg/L	20070302.R13A

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	6.4	ug/L	20070302.R13C
Dissolved Antimony	0.5	<0.5	ug/L	20070302.R13C
Dissolved Arsenic	1	<1	ug/L	20070302.R13C
Dissolved Barium	1	7.3	ug/L	20070302.R13C
Dissolved Beryllium	0.5	<0.5	ug/L	20070302.R13C
Dissolved Bismuth	1	<1	ug/L	20070302.R13C
Dissolved Boron	2	<2	ug/L	20070302.R13C
Dissolved Cadmium	0.1	<0.1	ug/L	20070302.R13C
Dissolved Calcium	50	14900	ug/L	20070302.R13C
Dissolved Cerium	1	<1	ug/L	20070302.R13C
Dissolved Cesium	1	<1	ug/L	20070302.R13C
Dissolved Chromium	1	1.5	ug/L	20070302.R13C
Dissolved Cobalt	0.1	<0.1	ug/L	20070302.R13C
Dissolved Copper	1	<1	ug/L	20070302.R13C
Dissolved Europium	1	<1	ug/L	20070302.R13C
Dissolved Gallium	1	<1	ug/L	20070302.R13C
Dissolved Iron	20	<20	ug/L	20070302.R13C
Dissolved Lanthanum	1	<1	ug/L	20070302.R13C
Dissolved Lead	1	<1	ug/L	20070302.R13C
Dissolved Lithium	5	<5	ug/L	20070302.R13C
Dissolved Magnesium	4	3010	ug/L	20070302.R13C
Dissolved Manganese	1	1.7	ug/L	20070302.R13C
Dissolved Mercury	0.1	<0.1	ug/L	20070302.R13C
Dissolved Molybdenum	1	<1	ug/L	20070302.R13C
Dissolved Nickel	1	<1	ug/L	20070302.R13C
Dissolved Niobium	1	<1	ug/L	20070302.R13C
Dissolved Phosphorus	50	<50	ug/L	20070302.R13C
Dissolved Rubidium	1	1.2	ug/L	20070302.R13C
Dissolved Scandium	1	1.3	ug/L	20070302.R13C

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Work Order: 31313

Sample Name: R2

Date: 2/27/2007

Matrix: Water

Lab #: 111710

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Selenium	1	<1	ug/L	20070302.R13C
Dissolved Silver	0.1	<0.1	ug/L	20070302.R13C
Dissolved Strontium	1	16.8	ug/L	20070302.R13C
Dissolved Thallium	0.1	<0.1	ug/L	20070302.R13C
Dissolved Thorium	1	<1	ug/L	20070302.R13C
Dissolved Tin	1	<1	ug/L	20070302.R13C
Dissolved Titanium	1	<1	ug/L	20070302.R13C
Dissolved Tungsten	1	<1	ug/L	20070302.R13C
Dissolved Uranium	1	<1	ug/L	20070302.R13C
Dissolved Vanadium	1	<1	ug/L	20070302.R13C
Dissolved Yttrium	1	<1	ug/L	20070302.R13C
Dissolved Zinc	1	<1	ug/L	20070302.R13C
Dissolved Zirconium	1	<1	ug/L	20070302.R13C

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	16.3	ug/L	20070302.R13B
Total Antimony	0.5	<0.5	ug/L	20070302.R13B
Total Arsenic	1	<1	ug/L	20070302.R13B
Total Barium	1	8.2	ug/L	20070302.R13B
Total Beryllium	0.5	<0.5	ug/L	20070302.R13B
Total Bismuth	1	<1	ug/L	20070302.R13B
Total Boron	2	2.3	ug/L	20070302.R13B
Total Cadmium	0.1	<0.1	ug/L	20070302.R13B
Total Calcium	50	17500	ug/L	20070302.R13B
Total Cerium	1	<1	ug/L	20070302.R13B
Total Cesium	1	<1	ug/L	20070302.R13B
Total Chromium	1	1.8	ug/L	20070302.R13B
Total Cobalt	0.1	<0.1	ug/L	20070302.R13B
Total Copper	1	<1	ug/L	20070302.R13B
Total Europium	1	<1	ug/L	20070302.R13B
Total Gallium	1	<1	ug/L	20070302.R13B
Total Iron	20	31	ug/L	20070302.R13B
Total Lanthanum	1	<1	ug/L	20070302.R13B
Total Lead	1	<1	ug/L	20070302.R13B
Total Lithium	5	<5	ug/L	20070302.R13B
Total Magnesium	4	3620	ug/L	20070302.R13B
Total Manganese	1	3.8	ug/L	20070302.R13B
Total Mercury	0.1	<0.1	ug/L	20070302.R13B
Total Molybdenum	1	<1	ug/L	20070302.R13B
Total Nickel	1	1.6	ug/L	20070302.R13B
Total Niobium	1	<1	ug/L	20070302.R13B
Total Phosphorus	50	<50	ug/L	20070302.R13B
Total Rubidium	1	1.3	ug/L	20070302.R13B
Total Scandium	1	3.2	ug/L	20070302.R13B
Total Selenium	1	<1	ug/L	20070302.R13B

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Work Order: 31313

Sample Name: R2 **Date: 2/27/2007** **Matrix: Water** **Lab #: 111710**

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Silver	0.1	<0.1	ug/L	20070302.R13B
Total Strontium	1	19.2	ug/L	20070302.R13B
Total Thallium	0.1	<0.1	ug/L	20070302.R13B
Total Thorium	1	<1	ug/L	20070302.R13B
Total Tin	1	<1	ug/L	20070302.R13B
Total Titanium	1	<1	ug/L	20070302.R13B
Total Tungsten	1	<1	ug/L	20070302.R13B
Total Uranium	1	<1	ug/L	20070302.R13B
Total Vanadium	1	<1	ug/L	20070302.R13B
Total Yttrium	1	<1	ug/L	20070302.R13B
Total Zinc	1	11.2	ug/L	20070302.R13B
Total Zirconium	1	1.1	ug/L	20070302.R13B

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	65	mg/L	20070306.R27C

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	7.5	mg/L	20070305.R55.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20070306.R27A

Sample Name: R3 **Date: 2/27/2007** **Matrix: Water** **Lab #: 111711**

Alk by FIA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	118	mg/L	20070305.R69A

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.231	mg/L	20070309.R42A

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.86	mg/L	20070302.R5A
Fluoride	0.1	<0.1	mg/L	20070302.R5A
Nitrate (as N)	0.1	<0.1	mg/L	20070302.R5A
Nitrite (as N)	0.03	<0.03	mg/L	20070302.R5A
Sulfate	1	1.5	mg/L	20070302.R5A

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	18	mg/L	20070305.R55.1A



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Work Order: 31313

Sample Name: R3

Date: 2/27/2007

Matrix: Water

Lab #: 111711

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.05	32.2	mg/L	20070302.R13A
Magnesium	0.004	4.9	mg/L	20070302.R13A
Total Hardness (as CaCO ₃)	0.1	101	mg/L	20070302.R13A

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	27.3	ug/L	20070302.R13C
Dissolved Antimony	0.5	<0.5	ug/L	20070302.R13C
Dissolved Arsenic	1	1.3	ug/L	20070302.R13C
Dissolved Barium	1	12.5	ug/L	20070302.R13C
Dissolved Beryllium	0.5	<0.5	ug/L	20070302.R13C
Dissolved Bismuth	1	<1	ug/L	20070302.R13C
Dissolved Boron	2	<2	ug/L	20070302.R13C
Dissolved Cadmium	0.1	<0.1	ug/L	20070302.R13C
Dissolved Calcium	50	32100	ug/L	20070302.R13C
Dissolved Cerium	1	<1	ug/L	20070302.R13C
Dissolved Cesium	1	<1	ug/L	20070302.R13C
Dissolved Chromium	1	4.2	ug/L	20070302.R13C
Dissolved Cobalt	0.1	0.49	ug/L	20070302.R13C
Dissolved Copper	1	<1	ug/L	20070302.R13C
Dissolved Europium	1	<1	ug/L	20070302.R13C
Dissolved Gallium	1	<1	ug/L	20070302.R13C
Dissolved Iron	20	419	ug/L	20070302.R13C
Dissolved Lanthanum	1	<1	ug/L	20070302.R13C
Dissolved Lead	1	<1	ug/L	20070302.R13C
Dissolved Lithium	5	<5	ug/L	20070302.R13C
Dissolved Magnesium	4	4880	ug/L	20070302.R13C
Dissolved Manganese	1	489	ug/L	20070302.R13C
Dissolved Mercury	0.1	<0.1	ug/L	20070302.R13C
Dissolved Molybdenum	1	<1	ug/L	20070302.R13C
Dissolved Nickel	1	2.5	ug/L	20070302.R13C
Dissolved Niobium	1	<1	ug/L	20070302.R13C
Dissolved Phosphorus	50	<50	ug/L	20070302.R13C
Dissolved Rubidium	1	2	ug/L	20070302.R13C
Dissolved Scandium	1	3.3	ug/L	20070302.R13C
Dissolved Selenium	1	<1	ug/L	20070302.R13C
Dissolved Silver	0.1	<0.1	ug/L	20070302.R13C
Dissolved Strontium	1	32.5	ug/L	20070302.R13C
Dissolved Thallium	0.1	<0.1	ug/L	20070302.R13C
Dissolved Thorium	1	<1	ug/L	20070302.R13C
Dissolved Tin	1	<1	ug/L	20070302.R13C
Dissolved Titanium	1	1.9	ug/L	20070302.R13C
Dissolved Tungsten	1	<1	ug/L	20070302.R13C
Dissolved Uranium	1	<1	ug/L	20070302.R13C
Dissolved Vanadium	1	<1	ug/L	20070302.R13C
Dissolved Yttrium	1	<1	ug/L	20070302.R13C

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Work Order: 31313

Sample Name: R3

Date: 2/27/2007

Matrix: Water

Lab #: 111711

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Zinc	1	<1	ug/L	20070302.R13C
Dissolved Zirconium	1	1.2	ug/L	20070302.R13C

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	45.9	ug/L	20070302.R13B
Total Antimony	0.5	1.1	ug/L	20070302.R13B
Total Arsenic	1	2.6	ug/L	20070302.R13B
Total Barium	1	13.3	ug/L	20070302.R13B
Total Beryllium	0.5	<0.5	ug/L	20070302.R13B
Total Bismuth	1	<1	ug/L	20070302.R13B
Total Boron	2	<2	ug/L	20070302.R13B
Total Cadmium	0.1	<0.1	ug/L	20070302.R13B
Total Calcium	50	33500	ug/L	20070302.R13B
Total Cerium	1	<1	ug/L	20070302.R13B
Total Cesium	1	<1	ug/L	20070302.R13B
Total Chromium	1	5.2	ug/L	20070302.R13B
Total Cobalt	0.1	0.5	ug/L	20070302.R13B
Total Copper	1	<1	ug/L	20070302.R13B
Total Europium	1	<1	ug/L	20070302.R13B
Total Gallium	1	<1	ug/L	20070302.R13B
Total Iron	20	709	ug/L	20070302.R13B
Total Lanthanum	1	<1	ug/L	20070302.R13B
Total Lead	1	<1	ug/L	20070302.R13B
Total Lithium	5	<5	ug/L	20070302.R13B
Total Magnesium	4	5180	ug/L	20070302.R13B
Total Manganese	1	502	ug/L	20070302.R13B
Total Mercury	0.1	<0.1	ug/L	20070302.R13B
Total Molybdenum	1	<1	ug/L	20070302.R13B
Total Nickel	1	3.5	ug/L	20070302.R13B
Total Niobium	1	<1	ug/L	20070302.R13B
Total Phosphorus	50	<50	ug/L	20070302.R13B
Total Rubidium	1	2	ug/L	20070302.R13B
Total Scandium	1	8.2	ug/L	20070302.R13B
Total Selenium	1	<1	ug/L	20070302.R13B
Total Silver	0.1	<0.1	ug/L	20070302.R13B
Total Strontium	1	33.2	ug/L	20070302.R13B
Total Thallium	0.1	<0.1	ug/L	20070302.R13B
Total Thorium	1	<1	ug/L	20070302.R13B
Total Tin	1	<1	ug/L	20070302.R13B
Total Titanium	1	2.4	ug/L	20070302.R13B
Total Tungsten	1	<1	ug/L	20070302.R13B
Total Uranium	1	<1	ug/L	20070302.R13B
Total Vanadium	1	<1	ug/L	20070302.R13B
Total Yttrium	1	<1	ug/L	20070302.R13B
Total Zinc	1	<1	ug/L	20070302.R13B

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Work Order: 31313

Sample Name: R3 **Date: 2/27/2007** **Matrix: Water** **Lab #: 111711**

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Zirconium	1	1.3	ug/L	20070302.R13B
TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	160	mg/L	20070306.R27C
TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	18.7	mg/L	20070305.R55.2A
TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20070306.R27A

Sample Name: L2-S **Date: 2/27/2007** **Matrix: Water** **Lab #: 111712**

Alk by FIA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	42	mg/L	20070305.R69A
AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.0359	mg/L	20070309.R42A
Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.38	mg/L	20070302.R5A
Fluoride	0.1	<0.1	mg/L	20070302.R5A
Nitrate (as N)	0.1	<0.1	mg/L	20070302.R5A
Nitrite (as N)	0.03	<0.03	mg/L	20070302.R5A
Sulfate	1	1.3	mg/L	20070302.R5A
DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	8.1	mg/L	20070306.R55.1A
Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.05	13.8	mg/L	20070302.R13A
Magnesium	0.004	3.06	mg/L	20070302.R13A
Total Hardness (as CaCO ₃)	0.1	47.1	mg/L	20070302.R13A
ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	8.2	ug/L	20070302.R13C
Dissolved Antimony	0.5	<0.5	ug/L	20070302.R13C
Dissolved Arsenic	1	<1	ug/L	20070302.R13C
Dissolved Barium	1	5.7	ug/L	20070302.R13C
Dissolved Beryllium	0.5	<0.5	ug/L	20070302.R13C
Dissolved Bismuth	1	<1	ug/L	20070302.R13C



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Work Order: 31313

Sample Name: L2-S

Date: 2/27/2007

Matrix: Water

Lab #: 111712

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Boron	2	<2	ug/L	20070302.R13C
Dissolved Cadmium	0.1	<0.1	ug/L	20070302.R13C
Dissolved Calcium	50	13200	ug/L	20070302.R13C
Dissolved Cerium	1	<1	ug/L	20070302.R13C
Dissolved Cesium	1	<1	ug/L	20070302.R13C
Dissolved Chromium	1	1.4	ug/L	20070302.R13C
Dissolved Cobalt	0.1	<0.1	ug/L	20070302.R13C
Dissolved Copper	1	<1	ug/L	20070302.R13C
Dissolved Europium	1	<1	ug/L	20070302.R13C
Dissolved Gallium	1	<1	ug/L	20070302.R13C
Dissolved Iron	20	<20	ug/L	20070302.R13C
Dissolved Lanthanum	1	<1	ug/L	20070302.R13C
Dissolved Lead	1	<1	ug/L	20070302.R13C
Dissolved Lithium	5	<5	ug/L	20070302.R13C
Dissolved Magnesium	4	3060	ug/L	20070302.R13C
Dissolved Manganese	1	<1	ug/L	20070302.R13C
Dissolved Mercury	0.1	<0.1	ug/L	20070302.R13C
Dissolved Molybdenum	1	<1	ug/L	20070302.R13C
Dissolved Nickel	1	1.1	ug/L	20070302.R13C
Dissolved Niobium	1	<1	ug/L	20070302.R13C
Dissolved Phosphorus	50	<50	ug/L	20070302.R13C
Dissolved Rubidium	1	1.3	ug/L	20070302.R13C
Dissolved Scandium	1	1.2	ug/L	20070302.R13C
Dissolved Selenium	1	<1	ug/L	20070302.R13C
Dissolved Silver	0.1	<0.1	ug/L	20070302.R13C
Dissolved Strontium	1	16.1	ug/L	20070302.R13C
Dissolved Thallium	0.1	<0.1	ug/L	20070302.R13C
Dissolved Thorium	1	<1	ug/L	20070302.R13C
Dissolved Tin	1	<1	ug/L	20070302.R13C
Dissolved Titanium	1	<1	ug/L	20070302.R13C
Dissolved Tungsten	1	<1	ug/L	20070302.R13C
Dissolved Uranium	1	<1	ug/L	20070302.R13C
Dissolved Vanadium	1	<1	ug/L	20070302.R13C
Dissolved Yttrium	1	<1	ug/L	20070302.R13C
Dissolved Zinc	1	<1	ug/L	20070302.R13C
Dissolved Zirconium	1	<1	ug/L	20070302.R13C

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	15	ug/L	20070302.R13B
Total Antimony	0.5	2.3	ug/L	20070302.R13B
Total Arsenic	1	<1	ug/L	20070302.R13B
Total Barium	1	6.2	ug/L	20070302.R13B
Total Beryllium	0.5	<0.5	ug/L	20070302.R13B
Total Bismuth	1	<1	ug/L	20070302.R13B
Total Boron	2	3.4	ug/L	20070302.R13B

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Work Order: 31313

Sample Name: L2-S

Date: 2/27/2007

Matrix: Water

Lab #: 111712

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Cadmium	0.1	<0.1	ug/L	20070302.R13B
Total Calcium	50	15000	ug/L	20070302.R13B
Total Cerium	1	<1	ug/L	20070302.R13B
Total Cesium	1	<1	ug/L	20070302.R13B
Total Chromium	1	1.6	ug/L	20070302.R13B
Total Cobalt	0.1	<0.1	ug/L	20070302.R13B
Total Copper	1	<1	ug/L	20070302.R13B
Total Europium	1	<1	ug/L	20070302.R13B
Total Gallium	1	<1	ug/L	20070302.R13B
Total Iron	20	26	ug/L	20070302.R13B
Total Lanthanum	1	<1	ug/L	20070302.R13B
Total Lead	1	<1	ug/L	20070302.R13B
Total Lithium	5	<5	ug/L	20070302.R13B
Total Magnesium	4	3390	ug/L	20070302.R13B
Total Manganese	1	1.2	ug/L	20070302.R13B
Total Mercury	0.1	<0.1	ug/L	20070302.R13B
Total Molybdenum	1	<1	ug/L	20070302.R13B
Total Nickel	1	1.5	ug/L	20070302.R13B
Total Niobium	1	<1	ug/L	20070302.R13B
Total Phosphorus	50	<50	ug/L	20070302.R13B
Total Rubidium	1	1.4	ug/L	20070302.R13B
Total Scandium	1	2.9	ug/L	20070302.R13B
Total Selenium	1	<1	ug/L	20070302.R13B
Total Silver	0.1	<0.1	ug/L	20070302.R13B
Total Strontium	1	17.3	ug/L	20070302.R13B
Total Thallium	0.1	<0.1	ug/L	20070302.R13B
Total Thorium	1	<1	ug/L	20070302.R13B
Total Tin	1	<1	ug/L	20070302.R13B
Total Titanium	1	<1	ug/L	20070302.R13B
Total Tungsten	1	<1	ug/L	20070302.R13B
Total Uranium	1	<1	ug/L	20070302.R13B
Total Vanadium	1	<1	ug/L	20070302.R13B
Total Yttrium	1	<1	ug/L	20070302.R13B
Total Zinc	1	<1	ug/L	20070302.R13B
Total Zirconium	1	<1	ug/L	20070302.R13B

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	62	mg/L	20070306.R27C

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	9	mg/L	20070305.R55.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20070306.R27A

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Work Order: 31313

Sample Name: L2-S

Date: 2/27/2007

Matrix: Water

Lab #: 111712

TSS				
Parameter	MDL	Result	Units	QAQCID

Sample Name: L2-M

Date: 2/27/2007

Matrix: Water

Lab #: 111765

Alk by FIA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	40	mg/L	20070305.R69A

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.0289	mg/L	20070309.R42A

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.35	mg/L	20070302.R5A
Fluoride	0.1	<0.1	mg/L	20070302.R5A
Nitrate (as N)	0.1	<0.1	mg/L	20070302.R5A
Nitrite (as N)	0.03	<0.03	mg/L	20070302.R5A
Sulfate	1	1.2	mg/L	20070302.R5A

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	8.5	mg/L	20070305.R55.1A

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.05	12.9	mg/L	20070302.R13A
Magnesium	0.004	2.83	mg/L	20070302.R13A
Total Hardness (as CaCO ₃)	0.1	43.9	mg/L	20070302.R13A

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	6.9	ug/L	20070302.R13C
Dissolved Antimony	0.5	<0.5	ug/L	20070302.R13C
Dissolved Arsenic	1	<1	ug/L	20070302.R13C
Dissolved Barium	1	4.7	ug/L	20070302.R13C
Dissolved Beryllium	0.5	<0.5	ug/L	20070302.R13C
Dissolved Bismuth	1	<1	ug/L	20070302.R13C
Dissolved Boron	2	<2	ug/L	20070302.R13C
Dissolved Cadmium	0.1	<0.1	ug/L	20070302.R13C
Dissolved Calcium	50	12800	ug/L	20070302.R13C
Dissolved Cerium	1	<1	ug/L	20070302.R13C
Dissolved Cesium	1	<1	ug/L	20070302.R13C
Dissolved Chromium	1	1.2	ug/L	20070302.R13C
Dissolved Cobalt	0.1	<0.1	ug/L	20070302.R13C
Dissolved Copper	1	<1	ug/L	20070302.R13C
Dissolved Europium	1	<1	ug/L	20070302.R13C
Dissolved Gallium	1	<1	ug/L	20070302.R13C
Dissolved Iron	20	<20	ug/L	20070302.R13C



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Work Order: 31313

Sample Name: L2-M

Date: 2/27/2007

Matrix: Water

Lab #: 111765

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Lanthanum	1	<1	ug/L	20070302.R13C
Dissolved Lead	1	<1	ug/L	20070302.R13C
Dissolved Lithium	5	<5	ug/L	20070302.R13C
Dissolved Magnesium	4	2790	ug/L	20070302.R13C
Dissolved Manganese	1	<1	ug/L	20070302.R13C
Dissolved Mercury	0.1	<0.1	ug/L	20070302.R13C
Dissolved Molybdenum	1	<1	ug/L	20070302.R13C
Dissolved Nickel	1	1.2	ug/L	20070302.R13C
Dissolved Niobium	1	<1	ug/L	20070302.R13C
Dissolved Phosphorus	50	<50	ug/L	20070302.R13C
Dissolved Rubidium	1	1.2	ug/L	20070302.R13C
Dissolved Scandium	1	1.1	ug/L	20070302.R13C
Dissolved Selenium	1	<1	ug/L	20070302.R13C
Dissolved Silver	0.1	<0.1	ug/L	20070302.R13C
Dissolved Strontium	1	15.4	ug/L	20070302.R13C
Dissolved Thallium	0.1	<0.1	ug/L	20070302.R13C
Dissolved Thorium	1	<1	ug/L	20070302.R13C
Dissolved Tin	1	1.7	ug/L	20070302.R13C
Dissolved Titanium	1	<1	ug/L	20070302.R13C
Dissolved Tungsten	1	<1	ug/L	20070302.R13C
Dissolved Uranium	1	<1	ug/L	20070302.R13C
Dissolved Vanadium	1	<1	ug/L	20070302.R13C
Dissolved Yttrium	1	<1	ug/L	20070302.R13C
Dissolved Zinc	1	<1	ug/L	20070302.R13C
Dissolved Zirconium	1	<1	ug/L	20070302.R13C

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	11.8	ug/L	20070302.R13B
Total Antimony	0.5	<0.5	ug/L	20070302.R13B
Total Arsenic	1	<1	ug/L	20070302.R13B
Total Barium	1	6	ug/L	20070302.R13B
Total Beryllium	0.5	<0.5	ug/L	20070302.R13B
Total Bismuth	1	<1	ug/L	20070302.R13B
Total Boron	2	344	ug/L	20070302.R13B
Total Cadmium	0.1	<0.1	ug/L	20070302.R13B
Total Calcium	50	14500	ug/L	20070302.R13B
Total Cerium	1	<1	ug/L	20070302.R13B
Total Cesium	1	<1	ug/L	20070302.R13B
Total Chromium	1	1.5	ug/L	20070302.R13B
Total Cobalt	0.1	<0.1	ug/L	20070302.R13B
Total Copper	1	<1	ug/L	20070302.R13B
Total Europium	1	<1	ug/L	20070302.R13B
Total Gallium	1	<1	ug/L	20070302.R13B
Total Iron	20	45	ug/L	20070302.R13B
Total Lanthanum	1	<1	ug/L	20070302.R13B

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Work Order: 31313

Sample Name: L2-M

Date: 2/27/2007

Matrix: Water

Lab #: 111765

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Lead	1	<1	ug/L	20070302.R13B
Total Lithium	5	<5	ug/L	20070302.R13B
Total Magnesium	4	3020	ug/L	20070302.R13B
Total Manganese	1	1.6	ug/L	20070302.R13B
Total Mercury	0.1	<0.1	ug/L	20070302.R13B
Total Molybdenum	1	<1	ug/L	20070302.R13B
Total Nickel	1	1.4	ug/L	20070302.R13B
Total Niobium	1	<1	ug/L	20070302.R13B
Total Phosphorus	50	<50	ug/L	20070302.R13B
Total Rubidium	1	1.3	ug/L	20070302.R13B
Total Scandium	1	2.8	ug/L	20070302.R13B
Total Selenium	1	<1	ug/L	20070302.R13B
Total Silver	0.1	<0.1	ug/L	20070302.R13B
Total Strontium	1	16.4	ug/L	20070302.R13B
Total Thallium	0.1	<0.1	ug/L	20070302.R13B
Total Thorium	1	<1	ug/L	20070302.R13B
Total Tin	1	2.7	ug/L	20070302.R13B
Total Titanium	1	<1	ug/L	20070302.R13B
Total Tungsten	1	<1	ug/L	20070302.R13B
Total Uranium	1	<1	ug/L	20070302.R13B
Total Vanadium	1	<1	ug/L	20070302.R13B
Total Yttrium	1	<1	ug/L	20070302.R13B
Total Zinc	1	<1	ug/L	20070302.R13B
Total Zirconium	1	<1	ug/L	20070302.R13B

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	54	mg/L	20070306.R27C

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	8.6	mg/L	20070305.R55.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20070306.R27B
Total Suspended Solids (Dup)	6	<6	mg/L	20070306.R27B

Sample Name: L2-B

Date: 2/27/2007

Matrix: Water

Lab #: 111766

Alk by FIA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	38	mg/L	20070305.R69A

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.0213	mg/L	20070309.R42A



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Work Order: 31313

Sample Name: L2-B

Date: 2/27/2007

Matrix: Water

Lab #: 111766

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.34	mg/L	20070302.R5A
Fluoride	0.1	<0.1	mg/L	20070302.R5A
Nitrate (as N)	0.1	<0.1	mg/L	20070302.R5A
Nitrite (as N)	0.03	<0.03	mg/L	20070302.R5A
Sulfate	1	1.2	mg/L	20070302.R5A

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	7.8	mg/L	20070305.R55.1A

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.05	13.9	mg/L	20070302.R13A
Magnesium	0.004	2.96	mg/L	20070302.R13A
Total Hardness (as CaCO3)	0.1	47	mg/L	20070302.R13A

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	8.3	ug/L	20070302.R13C
Dissolved Antimony	0.5	<0.5	ug/L	20070302.R13C
Dissolved Arsenic	1	<1	ug/L	20070302.R13C
Dissolved Barium	1	5	ug/L	20070302.R13C
Dissolved Beryllium	0.5	<0.5	ug/L	20070302.R13C
Dissolved Bismuth	1	<1	ug/L	20070302.R13C
Dissolved Boron	2	<2	ug/L	20070302.R13C
Dissolved Cadmium	0.1	<0.1	ug/L	20070302.R13C
Dissolved Calcium	50	12100	ug/L	20070302.R13C
Dissolved Cerium	1	<1	ug/L	20070302.R13C
Dissolved Cesium	1	<1	ug/L	20070302.R13C
Dissolved Chromium	1	1.2	ug/L	20070302.R13C
Dissolved Cobalt	0.1	<0.1	ug/L	20070302.R13C
Dissolved Copper	1	<1	ug/L	20070302.R13C
Dissolved Europium	1	<1	ug/L	20070302.R13C
Dissolved Gallium	1	<1	ug/L	20070302.R13C
Dissolved Iron	20	<20	ug/L	20070302.R13C
Dissolved Lanthanum	1	<1	ug/L	20070302.R13C
Dissolved Lead	1	<1	ug/L	20070302.R13C
Dissolved Lithium	5	<5	ug/L	20070302.R13C
Dissolved Magnesium	4	2870	ug/L	20070302.R13C
Dissolved Manganese	1	<1	ug/L	20070302.R13C
Dissolved Mercury	0.1	<0.1	ug/L	20070302.R13C
Dissolved Molybdenum	1	<1	ug/L	20070302.R13C
Dissolved Nickel	1	1	ug/L	20070302.R13C
Dissolved Niobium	1	<1	ug/L	20070302.R13C
Dissolved Phosphorus	50	<50	ug/L	20070302.R13C
Dissolved Rubidium	1	1.2	ug/L	20070302.R13C
Dissolved Scandium	1	1.2	ug/L	20070302.R13C

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Work Order: 31313

Sample Name: L2-B

Date: 2/27/2007

Matrix: Water

Lab #: 111766

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Selenium	1	<1	ug/L	20070302.R13C
Dissolved Silver	0.1	<0.1	ug/L	20070302.R13C
Dissolved Strontium	1	15.9	ug/L	20070302.R13C
Dissolved Thallium	0.1	<0.1	ug/L	20070302.R13C
Dissolved Thorium	1	<1	ug/L	20070302.R13C
Dissolved Tin	1	1.1	ug/L	20070302.R13C
Dissolved Titanium	1	<1	ug/L	20070302.R13C
Dissolved Tungsten	1	<1	ug/L	20070302.R13C
Dissolved Uranium	1	<1	ug/L	20070302.R13C
Dissolved Vanadium	1	<1	ug/L	20070302.R13C
Dissolved Yttrium	1	<1	ug/L	20070302.R13C
Dissolved Zinc	1	<1	ug/L	20070302.R13C
Dissolved Zirconium	1	<1	ug/L	20070302.R13C

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	12.4	ug/L	20070302.R13B
Total Antimony	0.5	<0.5	ug/L	20070302.R13B
Total Arsenic	1	<1	ug/L	20070302.R13B
Total Barium	1	5.8	ug/L	20070302.R13B
Total Beryllium	0.5	<0.5	ug/L	20070302.R13B
Total Bismuth	1	<1	ug/L	20070302.R13B
Total Boron	2	136	ug/L	20070302.R13B
Total Cadmium	0.1	<0.1	ug/L	20070302.R13B
Total Calcium	50	14100	ug/L	20070302.R13B
Total Cerium	1	<1	ug/L	20070302.R13B
Total Cesium	1	<1	ug/L	20070302.R13B
Total Chromium	1	1.6	ug/L	20070302.R13B
Total Cobalt	0.1	<0.1	ug/L	20070302.R13B
Total Copper	1	<1	ug/L	20070302.R13B
Total Europium	1	<1	ug/L	20070302.R13B
Total Gallium	1	<1	ug/L	20070302.R13B
Total Iron	20	<20	ug/L	20070302.R13B
Total Lanthanum	1	<1	ug/L	20070302.R13B
Total Lead	1	<1	ug/L	20070302.R13B
Total Lithium	5	<5	ug/L	20070302.R13B
Total Magnesium	4	3090	ug/L	20070302.R13B
Total Manganese	1	1.9	ug/L	20070302.R13B
Total Mercury	0.1	<0.1	ug/L	20070302.R13B
Total Molybdenum	1	<1	ug/L	20070302.R13B
Total Nickel	1	1.5	ug/L	20070302.R13B
Total Niobium	1	<1	ug/L	20070302.R13B
Total Phosphorus	50	<50	ug/L	20070302.R13B
Total Rubidium	1	1.3	ug/L	20070302.R13B
Total Scandium	1	2.9	ug/L	20070302.R13B
Total Selenium	1	<1	ug/L	20070302.R13B

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Golder Associates Ltd. - Sudbury

Work Order: 31313

Sample Name: L2-B

Date: 2/27/2007

Matrix: Water

Lab #: 111766

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Silver	0.1	<0.1	ug/L	20070302.R13B
Total Strontium	1	16.2	ug/L	20070302.R13B
Total Thallium	0.1	<0.1	ug/L	20070302.R13B
Total Thorium	1	<1	ug/L	20070302.R13B
Total Tin	1	1.3	ug/L	20070302.R13B
Total Titanium	1	<1	ug/L	20070302.R13B
Total Tungsten	1	<1	ug/L	20070302.R13B
Total Uranium	1	<1	ug/L	20070302.R13B
Total Vanadium	1	<1	ug/L	20070302.R13B
Total Yttrium	1	<1	ug/L	20070302.R13B
Total Zinc	1	<1	ug/L	20070302.R13B
Total Zirconium	1	<1	ug/L	20070302.R13B

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	61	mg/L	20070306.R27C

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	8.2	mg/L	20070305.R55.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20070306.R27B

Sample Name: L4-S

Date: 2/27/2007

Matrix: Water

Lab #: 111767

Alk by FIA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	49	mg/L	20070305.R69A

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.026	mg/L	20070309.R42A

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.34	mg/L	20070302.R5A
Fluoride	0.1	<0.1	mg/L	20070302.R5A
Nitrate (as N)	0.1	<0.1	mg/L	20070302.R5A
Nitrite (as N)	0.03	<0.03	mg/L	20070302.R5A
Sulfate	1	1.5	mg/L	20070302.R5A

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	11	mg/L	20070305.R55.1A



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Golder Associates Ltd. - Sudbury

Work Order: 31313

Sample Name: L4-S

Date: 2/27/2007

Matrix: Water

Lab #: 111767

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.05	16.7	mg/L	20070302.R13A
Magnesium	0.004	3.67	mg/L	20070302.R13A
Total Hardness (as CaCO ₃)	0.1	56.9	mg/L	20070302.R13A

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	9.7	ug/L	20070302.R13C
Dissolved Antimony	0.5	<0.5	ug/L	20070302.R13C
Dissolved Arsenic	1	<1	ug/L	20070302.R13C
Dissolved Barium	1	6.3	ug/L	20070302.R13C
Dissolved Beryllium	0.5	<0.5	ug/L	20070302.R13C
Dissolved Bismuth	1	<1	ug/L	20070302.R13C
Dissolved Boron	2	<2	ug/L	20070302.R13C
Dissolved Cadmium	0.1	<0.1	ug/L	20070302.R13C
Dissolved Calcium	50	16000	ug/L	20070302.R13C
Dissolved Cerium	1	<1	ug/L	20070302.R13C
Dissolved Cesium	1	<1	ug/L	20070302.R13C
Dissolved Chromium	1	1.6	ug/L	20070302.R13C
Dissolved Cobalt	0.1	<0.1	ug/L	20070302.R13C
Dissolved Copper	1	<1	ug/L	20070302.R13C
Dissolved Europium	1	<1	ug/L	20070302.R13C
Dissolved Gallium	1	<1	ug/L	20070302.R13C
Dissolved Iron	20	<20	ug/L	20070302.R13C
Dissolved Lanthanum	1	<1	ug/L	20070302.R13C
Dissolved Lead	1	<1	ug/L	20070302.R13C
Dissolved Lithium	5	<5	ug/L	20070302.R13C
Dissolved Magnesium	4	3560	ug/L	20070302.R13C
Dissolved Manganese	1	1.3	ug/L	20070302.R13C
Dissolved Mercury	0.1	<0.1	ug/L	20070302.R13C
Dissolved Molybdenum	1	<1	ug/L	20070302.R13C
Dissolved Nickel	1	1.2	ug/L	20070302.R13C
Dissolved Niobium	1	<1	ug/L	20070302.R13C
Dissolved Phosphorus	50	<50	ug/L	20070302.R13C
Dissolved Rubidium	1	1.4	ug/L	20070302.R13C
Dissolved Scandium	1	1.1	ug/L	20070302.R13C
Dissolved Selenium	1	<1	ug/L	20070302.R13C
Dissolved Silver	0.1	<0.1	ug/L	20070302.R13C
Dissolved Strontium	1	18.1	ug/L	20070302.R13C
Dissolved Thallium	0.1	<0.1	ug/L	20070302.R13C
Dissolved Thorium	1	<1	ug/L	20070302.R13C
Dissolved Tin	1	<1	ug/L	20070302.R13C
Dissolved Titanium	1	<1	ug/L	20070302.R13C
Dissolved Tungsten	1	<1	ug/L	20070302.R13C
Dissolved Uranium	1	<1	ug/L	20070302.R13C
Dissolved Vanadium	1	<1	ug/L	20070302.R13C
Dissolved Yttrium	1	<1	ug/L	20070302.R13C

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Work Order: 31313

Sample Name: L4-S

Date: 2/27/2007

Matrix: Water

Lab #: 111767

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Zinc	1	1.2	ug/L	20070302.R13C
Dissolved Zirconium	1	<1	ug/L	20070302.R13C

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	10.9	ug/L	20070302.R13B
Total Antimony	0.5	<0.5	ug/L	20070302.R13B
Total Arsenic	1	<1	ug/L	20070302.R13B
Total Barium	1	7	ug/L	20070302.R13B
Total Beryllium	0.5	<0.5	ug/L	20070302.R13B
Total Bismuth	1	<1	ug/L	20070302.R13B
Total Boron	2	79.6	ug/L	20070302.R13B
Total Cadmium	0.1	<0.1	ug/L	20070302.R13B
Total Calcium	50	17600	ug/L	20070302.R13B
Total Cerium	1	<1	ug/L	20070302.R13B
Total Cesium	1	<1	ug/L	20070302.R13B
Total Chromium	1	1.9	ug/L	20070302.R13B
Total Cobalt	0.1	<0.1	ug/L	20070302.R13B
Total Copper	1	5.9	ug/L	20070302.R13B
Total Europium	1	<1	ug/L	20070302.R13B
Total Gallium	1	<1	ug/L	20070302.R13B
Total Iron	20	29	ug/L	20070302.R13B
Total Lanthanum	1	<1	ug/L	20070302.R13B
Total Lead	1	<1	ug/L	20070302.R13B
Total Lithium	5	<5	ug/L	20070302.R13B
Total Magnesium	4	3720	ug/L	20070302.R13B
Total Manganese	1	1.3	ug/L	20070302.R13B
Total Mercury	0.1	<0.1	ug/L	20070302.R13B
Total Molybdenum	1	<1	ug/L	20070302.R13B
Total Nickel	1	1.8	ug/L	20070302.R13B
Total Niobium	1	<1	ug/L	20070302.R13B
Total Phosphorus	50	<50	ug/L	20070302.R13B
Total Rubidium	1	1.4	ug/L	20070302.R13B
Total Scandium	1	2.6	ug/L	20070302.R13B
Total Selenium	1	<1	ug/L	20070302.R13B
Total Silver	0.1	<0.1	ug/L	20070302.R13B
Total Strontium	1	18.5	ug/L	20070302.R13B
Total Thallium	0.1	<0.1	ug/L	20070302.R13B
Total Thorium	1	<1	ug/L	20070302.R13B
Total Tin	1	<1	ug/L	20070302.R13B
Total Titanium	1	<1	ug/L	20070302.R13B
Total Tungsten	1	<1	ug/L	20070302.R13B
Total Uranium	1	<1	ug/L	20070302.R13B
Total Vanadium	1	<1	ug/L	20070302.R13B
Total Yttrium	1	<1	ug/L	20070302.R13B
Total Zinc	1	4.8	ug/L	20070302.R13B



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Work Order: 31313

Sample Name: L4-S

Date: 2/27/2007

Matrix: Water

Lab #: 111767

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Zirconium	1	<1	ug/L	20070302.R13B

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	80	mg/L	20070306.R27C

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	11.1	mg/L	20070305.R55.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20070306.R27B

Sample Name: L4-M

Date: 2/27/2007

Matrix: Water

Lab #: 111768

Alk by FIA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	51	mg/L	20070305.R69A

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.0397	mg/L	20070309.R42A

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.4	mg/L	20070302.R5A
Fluoride	0.1	<0.1	mg/L	20070302.R5A
Nitrate (as N)	0.1	<0.1	mg/L	20070302.R5A
Nitrite (as N)	0.03	<0.03	mg/L	20070302.R5A
Sulfate	1	1.5	mg/L	20070302.R5A

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	10.9	mg/L	20070305.R55.1A

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.05	17.4	mg/L	20070302.R13A
Magnesium	0.004	3.74	mg/L	20070302.R13A
Total Hardness (as CaCO ₃)	0.1	58.8	mg/L	20070302.R13A

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	6.3	ug/L	20070302.R13C
Dissolved Antimony	0.5	<0.5	ug/L	20070302.R13C
Dissolved Arsenic	1	<1	ug/L	20070302.R13C
Dissolved Barium	1	6.8	ug/L	20070302.R13C
Dissolved Beryllium	0.5	<0.5	ug/L	20070302.R13C
Dissolved Bismuth	1	<1	ug/L	20070302.R13C



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Work Order: 31313

Sample Name: L4-M

Date: 2/27/2007

Matrix: Water

Lab #: 111768

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Boron	2	<2	ug/L	20070302.R13C
Dissolved Cadmium	0.1	<0.1	ug/L	20070302.R13C
Dissolved Calcium	50	16600	ug/L	20070302.R13C
Dissolved Cerium	1	<1	ug/L	20070302.R13C
Dissolved Cesium	1	<1	ug/L	20070302.R13C
Dissolved Chromium	1	1.6	ug/L	20070302.R13C
Dissolved Cobalt	0.1	<0.1	ug/L	20070302.R13C
Dissolved Copper	1	<1	ug/L	20070302.R13C
Dissolved Europium	1	<1	ug/L	20070302.R13C
Dissolved Gallium	1	<1	ug/L	20070302.R13C
Dissolved Iron	20	<20	ug/L	20070302.R13C
Dissolved Lanthanum	1	<1	ug/L	20070302.R13C
Dissolved Lead	1	<1	ug/L	20070302.R13C
Dissolved Lithium	5	<5	ug/L	20070302.R13C
Dissolved Magnesium	4	3630	ug/L	20070302.R13C
Dissolved Manganese	1	<1	ug/L	20070302.R13C
Dissolved Mercury	0.1	<0.1	ug/L	20070302.R13C
Dissolved Molybdenum	1	<1	ug/L	20070302.R13C
Dissolved Nickel	1	1.2	ug/L	20070302.R13C
Dissolved Niobium	1	<1	ug/L	20070302.R13C
Dissolved Phosphorus	50	<50	ug/L	20070302.R13C
Dissolved Rubidium	1	1.4	ug/L	20070302.R13C
Dissolved Scandium	1	1.1	ug/L	20070302.R13C
Dissolved Selenium	1	<1	ug/L	20070302.R13C
Dissolved Silver	0.1	<0.1	ug/L	20070302.R13C
Dissolved Strontium	1	17.8	ug/L	20070302.R13C
Dissolved Thallium	0.1	<0.1	ug/L	20070302.R13C
Dissolved Thorium	1	<1	ug/L	20070302.R13C
Dissolved Tin	1	3.6	ug/L	20070302.R13C
Dissolved Titanium	1	<1	ug/L	20070302.R13C
Dissolved Tungsten	1	<1	ug/L	20070302.R13C
Dissolved Uranium	1	<1	ug/L	20070302.R13C
Dissolved Vanadium	1	<1	ug/L	20070302.R13C
Dissolved Yttrium	1	<1	ug/L	20070302.R13C
Dissolved Zinc	1	<1	ug/L	20070302.R13C
Dissolved Zirconium	1	<1	ug/L	20070302.R13C

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	10.7	ug/L	20070302.R13B
Total Antimony	0.5	<0.5	ug/L	20070302.R13B
Total Arsenic	1	<1	ug/L	20070302.R13B
Total Barium	1	7.7	ug/L	20070302.R13B
Total Beryllium	0.5	<0.5	ug/L	20070302.R13B
Total Bismuth	1	<1	ug/L	20070302.R13B
Total Boron	2	51.1	ug/L	20070302.R13B



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Work Order: 31313

Sample Name: L4-M

Date: 2/27/2007

Matrix: Water

Lab #: 111768

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Cadmium	0.1	<0.1	ug/L	20070302.R13B
Total Calcium	50	18100	ug/L	20070302.R13B
Total Cerium	1	<1	ug/L	20070302.R13B
Total Cesium	1	<1	ug/L	20070302.R13B
Total Chromium	1	1.7	ug/L	20070302.R13B
Total Cobalt	0.1	<0.1	ug/L	20070302.R13B
Total Copper	1	1.2	ug/L	20070302.R13B
Total Europium	1	<1	ug/L	20070302.R13B
Total Gallium	1	<1	ug/L	20070302.R13B
Total Iron	20	32	ug/L	20070302.R13B
Total Lanthanum	1	<1	ug/L	20070302.R13B
Total Lead	1	<1	ug/L	20070302.R13B
Total Lithium	5	<5	ug/L	20070302.R13B
Total Magnesium	4	3970	ug/L	20070302.R13B
Total Manganese	1	1.2	ug/L	20070302.R13B
Total Mercury	0.1	<0.1	ug/L	20070302.R13B
Total Molybdenum	1	<1	ug/L	20070302.R13B
Total Nickel	1	1.7	ug/L	20070302.R13B
Total Niobium	1	<1	ug/L	20070302.R13B
Total Phosphorus	50	96	ug/L	20070302.R13B
Total Rubidium	1	1.5	ug/L	20070302.R13B
Total Scandium	1	2.7	ug/L	20070302.R13B
Total Selenium	1	<1	ug/L	20070302.R13B
Total Silver	0.1	<0.1	ug/L	20070302.R13B
Total Strontium	1	19.1	ug/L	20070302.R13B
Total Thallium	0.1	<0.1	ug/L	20070302.R13B
Total Thorium	1	<1	ug/L	20070302.R13B
Total Tin	1	5.9	ug/L	20070302.R13B
Total Titanium	1	1	ug/L	20070302.R13B
Total Tungsten	1	<1	ug/L	20070302.R13B
Total Uranium	1	<1	ug/L	20070302.R13B
Total Vanadium	1	<1	ug/L	20070302.R13B
Total Yttrium	1	<1	ug/L	20070302.R13B
Total Zinc	1	1.1	ug/L	20070302.R13B
Total Zirconium	1	<1	ug/L	20070302.R13B

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	93	mg/L	20070306.R27C

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	11.5	mg/L	20070305.R55.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20070306.R27B

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Work Order: 31313

Sample Name: L4-M

Date: 2/27/2007

Matrix: Water

Lab #: 111768

TSS				
Parameter	MDL	Result	Units	QAQCID

Sample Name: L4-B

Date: 2/27/2007

Matrix: Water

Lab #: 111769

Alk by FIA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	52	mg/L	20070305.R69A

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.0292	mg/L	20070309.R42A

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.37	mg/L	20070302.R5A
Fluoride	0.1	<0.1	mg/L	20070302.R5A
Nitrate (as N)	0.1	<0.1	mg/L	20070302.R5A
Nitrite (as N)	0.03	<0.03	mg/L	20070302.R5A
Sulfate	1	1.5	mg/L	20070302.R5A

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	11.7	mg/L	20070305.R55.1A

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.05	17.1	mg/L	20070302.R13A
Calcium (Dup)	0.05	17.2	mg/L	20070302.R13A
Magnesium	0.004	3.7	mg/L	20070302.R13A
Magnesium (Dup)	0.004	3.68	mg/L	20070302.R13A
Total Hardness (as CaCO ₃)	0.1	57.9	mg/L	20070302.R13A
Total Hardness (as CaCO ₃) (Dup)	0.1	58	mg/L	20070302.R13A

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	5.3	ug/L	20070302.R13C
Dissolved Antimony	0.5	<0.5	ug/L	20070302.R13C
Dissolved Arsenic	1	<1	ug/L	20070302.R13C
Dissolved Barium	1	6.4	ug/L	20070302.R13C
Dissolved Beryllium	0.5	<0.5	ug/L	20070302.R13C
Dissolved Bismuth	1	<1	ug/L	20070302.R13C
Dissolved Boron	2	2.7	ug/L	20070302.R13C
Dissolved Cadmium	0.1	<0.1	ug/L	20070302.R13C
Dissolved Calcium	50	17000	ug/L	20070302.R13C
Dissolved Cerium	1	<1	ug/L	20070302.R13C
Dissolved Cesium	1	<1	ug/L	20070302.R13C
Dissolved Chromium	1	1.6	ug/L	20070302.R13C
Dissolved Cobalt	0.1	<0.1	ug/L	20070302.R13C
Dissolved Copper	1	<1	ug/L	20070302.R13C



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Work Order: 31313

Sample Name: L4-B

Date: 2/27/2007

Matrix: Water

Lab #: 111769

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Europium	1	<1	ug/L	20070302.R13C
Dissolved Gallium	1	<1	ug/L	20070302.R13C
Dissolved Iron	20	<20	ug/L	20070302.R13C
Dissolved Lanthanum	1	<1	ug/L	20070302.R13C
Dissolved Lead	1	<1	ug/L	20070302.R13C
Dissolved Lithium	5	<5	ug/L	20070302.R13C
Dissolved Magnesium	4	3650	ug/L	20070302.R13C
Dissolved Manganese	1	<1	ug/L	20070302.R13C
Dissolved Mercury	0.1	<0.1	ug/L	20070302.R13C
Dissolved Molybdenum	1	<1	ug/L	20070302.R13C
Dissolved Nickel	1	1.2	ug/L	20070302.R13C
Dissolved Niobium	1	<1	ug/L	20070302.R13C
Dissolved Phosphorus	50	<50	ug/L	20070302.R13C
Dissolved Rubidium	1	1.4	ug/L	20070302.R13C
Dissolved Scandium	1	1.1	ug/L	20070302.R13C
Dissolved Selenium	1	<1	ug/L	20070302.R13C
Dissolved Silver	0.1	<0.1	ug/L	20070302.R13C
Dissolved Strontium	1	18.5	ug/L	20070302.R13C
Dissolved Thallium	0.1	<0.1	ug/L	20070302.R13C
Dissolved Thorium	1	<1	ug/L	20070302.R13C
Dissolved Tin	1	3.1	ug/L	20070302.R13C
Dissolved Titanium	1	<1	ug/L	20070302.R13C
Dissolved Tungsten	1	<1	ug/L	20070302.R13C
Dissolved Uranium	1	<1	ug/L	20070302.R13C
Dissolved Vanadium	1	<1	ug/L	20070302.R13C
Dissolved Yttrium	1	<1	ug/L	20070302.R13C
Dissolved Zinc	1	<1	ug/L	20070302.R13C
Dissolved Zirconium	1	<1	ug/L	20070302.R13C

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	13.5	ug/L	20070302.R13B
Total Antimony	0.5	<0.5	ug/L	20070302.R13B
Total Arsenic	1	<1	ug/L	20070302.R13B
Total Barium	1	7.2	ug/L	20070302.R13B
Total Beryllium	0.5	<0.5	ug/L	20070302.R13B
Total Bismuth	1	<1	ug/L	20070302.R13B
Total Boron	2	35.6	ug/L	20070302.R13B
Total Cadmium	0.1	<0.1	ug/L	20070302.R13B
Total Calcium	50	18000	ug/L	20070302.R13B
Total Cerium	1	<1	ug/L	20070302.R13B
Total Cesium	1	<1	ug/L	20070302.R13B
Total Chromium	1	1.9	ug/L	20070302.R13B
Total Cobalt	0.1	<0.1	ug/L	20070302.R13B
Total Copper	1	1.8	ug/L	20070302.R13B
Total Europium	1	<1	ug/L	20070302.R13B



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Work Order: 31313

Sample Name: L4-B

Date: 2/27/2007

Matrix: Water

Lab #: 111769

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Gallium	1	<1	ug/L	20070302.R13B
Total Iron	20	37	ug/L	20070302.R13B
Total Lanthanum	1	<1	ug/L	20070302.R13B
Total Lead	1	<1	ug/L	20070302.R13B
Total Lithium	5	<5	ug/L	20070302.R13B
Total Magnesium	4	3970	ug/L	20070302.R13B
Total Manganese	1	1.4	ug/L	20070302.R13B
Total Mercury	0.1	<0.1	ug/L	20070302.R13B
Total Molybdenum	1	<1	ug/L	20070302.R13B
Total Nickel	1	2	ug/L	20070302.R13B
Total Niobium	1	<1	ug/L	20070302.R13B
Total Phosphorus	50	<50	ug/L	20070302.R13B
Total Rubidium	1	1.5	ug/L	20070302.R13B
Total Scandium	1	2.6	ug/L	20070302.R13B
Total Selenium	1	<1	ug/L	20070302.R13B
Total Silver	0.1	<0.1	ug/L	20070302.R13B
Total Strontium	1	19.3	ug/L	20070302.R13B
Total Thallium	0.1	<0.1	ug/L	20070302.R13B
Total Thorium	1	<1	ug/L	20070302.R13B
Total Tin	1	4.1	ug/L	20070302.R13B
Total Titanium	1	<1	ug/L	20070302.R13B
Total Tungsten	1	<1	ug/L	20070302.R13B
Total Uranium	1	<1	ug/L	20070302.R13B
Total Vanadium	1	<1	ug/L	20070302.R13B
Total Yttrium	1	<1	ug/L	20070302.R13B
Total Zinc	1	1	ug/L	20070302.R13B
Total Zirconium	1	<1	ug/L	20070302.R13B

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	87	mg/L	20070306.R27C

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	11	mg/L	20070305.R55.2A
Total Organic Carbon (Dup)	0.4	11.2	mg/L	20070305.R55.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20070306.R27B



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Work Order: 31313

MDL Method detection limit or minimum reporting limit.

% Rec Surrogate compounds are added to the sample in some cases and the recovery is reported as a percent recovered.

QAQCID This is a unique reference to the quality control data set used to generate the reported value.

Data reported for organic analysis in soil samples are corrected for moisture content

Matrix If the matrix is a leachate, the sample was extracted according to regulation 558.

INT Interferences

TNTC To numerous to count

ND Not detected



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Work Order: 31313

Quality Control Data:

Alk by FIA

200 mg/L Check Std.						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	mg/L	220	196	180	20070305.R69A

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	mg/L	10	<10	<10	20070305.R69A

AmmoniaFIA

500 ppb HN3						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Ammonia (as N)	0.002	mg/L	0.6	0.528	0.4	20070309.R42A

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Ammonia (as N)	0.002	mg/L	0.02	<0.002	<0.002	20070309.R42A

Anions Water

Blank (IC II)						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Chloride	0.2	mg/L	0.5	<0.2	<0.2	20070302.R5A
Fluoride	0.1	mg/L	0.5	<0.1	<0.1	20070302.R5A
Nitrate (as N)	0.1	mg/L	0.5	<0.1	<0.1	20070302.R5A
Nitrite (as N)	0.3	mg/L	0.5	<0.3	<0.3	20070302.R5A
Sulfate	1	mg/L	1	<1	<1	20070302.R5A

Control (IC II)						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Chloride	0.2	mg/L	100	91.5	80	20070302.R5A
Fluoride	0.1	mg/L	55	47.5	45	20070302.R5A
Nitrate (as N)	0.1	mg/L	55	50.7	40	20070302.R5A
Nitrite (as N)	0.3	mg/L	62	51.2	47	20070302.R5A
Sulfate	1	mg/L	100	90.4	78	20070302.R5A

DOC Water

20 ppm Blank Spike						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Organic Carbon	0.4	mg/L	22	21.3	18	20070305.R55.1A
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Organic Carbon	0.4	mg/L	22	21	18	20070306.R55.1A

Method Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Organic Carbon	0.4	mg/L	0.4	<0.4	<0.4	20070305.R55.1A



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Work Order: 31313

DOC Water

Method Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Organic Carbon	0.4	mg/L	0.4	<0.4	<0.4	20070306.R55.1A

ICPMS Dis. Water

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Aluminum	1	ug/L	1	<1	<1	20070302.R13C
Dissolved Antimony	1	ug/L	1	<1	<1	20070302.R13C
Dissolved Arsenic	1	ug/L	1	<1	<1	20070302.R13C
Dissolved Barium	1	ug/L	1	<1	<1	20070302.R13C
Dissolved Beryllium	1	ug/L	1	<1	<1	20070302.R13C
Dissolved Bismuth	1	ug/L	1	<1	<1	20070302.R13C
Dissolved Boron	2	ug/L	2	<2	<2	20070302.R13C
Dissolved Cadmium	1	ug/L	1	<1	<1	20070302.R13C
Dissolved Calcium	50	ug/L	50	<50	<50	20070302.R13C
Dissolved Cerium	1	ug/L	1	<1	<1	20070302.R13C
Dissolved Cesium	1	ug/L	1	<1	<1	20070302.R13C
Dissolved Chromium	1	ug/L	1	<1	<1	20070302.R13C
Dissolved Cobalt	1	ug/L	1	<1	<1	20070302.R13C
Dissolved Copper	1	ug/L	1	<1	<1	20070302.R13C
Dissolved Europium	1	ug/L	1	<1	<1	20070302.R13C
Dissolved Gallium	1	ug/L	1	<1	<1	20070302.R13C
Dissolved Iron	20	ug/L	20	<20	<20	20070302.R13C
Dissolved Lanthanum	1	ug/L	1	<1	<1	20070302.R13C
Dissolved Lead	1	ug/L	1	<1	<1	20070302.R13C
Dissolved Lithium	5	ug/L	5	<5	<5	20070302.R13C
Dissolved Magnesium	4	ug/L	4	<4	<4	20070302.R13C
Dissolved Manganese	1	ug/L	1	<1	<1	20070302.R13C
Dissolved Mercury	0.1	ug/L	0.1	<0.1	<0.1	20070302.R13C
Dissolved Molybdenum	1	ug/L	1	<1	<1	20070302.R13C
Dissolved Nickel	1	ug/L	1	<1	<1	20070302.R13C
Dissolved Niobium	1	ug/L	1	<1	<1	20070302.R13C
Dissolved Phosphorus	20	ug/L	20	<20	<20	20070302.R13C
Dissolved Rubidium	1	ug/L	1	<1	<1	20070302.R13C
Dissolved Scandium	1	ug/L	1	<1	<1	20070302.R13C
Dissolved Selenium	1	ug/L	1	<1	<1	20070302.R13C
Dissolved Silver	5	ug/L	5	<5	<5	20070302.R13C
Dissolved Strontium	1	ug/L	1	<1	<1	20070302.R13C
Dissolved Thallium	1	ug/L	1	<1	<1	20070302.R13C
Dissolved Thorium	1	ug/L	1	<1	<1	20070302.R13C
Dissolved Tin	1	ug/L	1	<1	<1	20070302.R13C
Dissolved Titanium	1	ug/L	1	<1	<1	20070302.R13C
Dissolved Tungsten	1	ug/L	1	<1	<1	20070302.R13C
Dissolved Uranium	1	ug/L	1	<1	<1	20070302.R13C
Dissolved Vanadium	1	ug/L	1	<1	<1	20070302.R13C
Dissolved Yttrium	1	ug/L	1	<1	<1	20070302.R13C

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3/9/2007

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Work Order: 31313

ICPMS Dis. Water

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Zinc	1	ug/L	1	<1	<1	20070302.R13C
Dissolved Zirconium	1	ug/L	1	<1	<1	20070302.R13C

Blank Spike (1011)

Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Aluminum	1	ug/L	600	493	400	20070302.R13C
Dissolved Arsenic	1	ug/L	120	101	80	20070302.R13C
Dissolved Barium	1	ug/L	120	94	80	20070302.R13C
Dissolved Beryllium	1	ug/L	125	101	75	20070302.R13C
Dissolved Boron	2	ug/L	125	89.7	75	20070302.R13C
Dissolved Cadmium	1	ug/L	120	108	80	20070302.R13C
Dissolved Calcium	50	ug/L	1200	947	800	20070302.R13C
Dissolved Chromium	1	ug/L	120	101	80	20070302.R13C
Dissolved Cobalt	1	ug/L	120	100	80	20070302.R13C
Dissolved Copper	1	ug/L	120	99.4	80	20070302.R13C
Dissolved Iron	20	ug/L	600	494	400	20070302.R13C
Dissolved Lead	1	ug/L	120	96.5	80	20070302.R13C
Dissolved Magnesium	4	ug/L	1200	993	800	20070302.R13C
Dissolved Manganese	1	ug/L	120	105	80	20070302.R13C
Dissolved Molybdenum	1	ug/L	120	99.4	80	20070302.R13C
Dissolved Nickel	1	ug/L	120	100	80	20070302.R13C
Dissolved Selenium	1	ug/L	120	99.8	80	20070302.R13C
Dissolved Thallium	1	ug/L	120	97.4	80	20070302.R13C
Dissolved Vanadium	1	ug/L	120	97.7	80	20070302.R13C
Dissolved Zinc	1	ug/L	120	95.8	80	20070302.R13C

ICPMS Tot. Water

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Aluminum	1	ug/L	1	<1	<1	20070302.R13B
Total Antimony	1	ug/L	1	<1	<1	20070302.R13B
Total Arsenic	1	ug/L	1	<1	<1	20070302.R13B
Total Barium	1	ug/L	1	<1	<1	20070302.R13B
Total Beryllium	1	ug/L	1	<1	<1	20070302.R13B
Total Bismuth	1	ug/L	1	<1	<1	20070302.R13B
Total Boron	2	ug/L	2	<2	<2	20070302.R13B
Total Cadmium	1	ug/L	1	<1	<1	20070302.R13B
Total Cerium	1	ug/L	1	<1	<1	20070302.R13B
Total Cesium	1	ug/L	1	<1	<1	20070302.R13B
Total Chromium	1	ug/L	1	<1	<1	20070302.R13B
Total Cobalt	1	ug/L	1	<1	<1	20070302.R13B
Total Copper	1	ug/L	1	<1	<1	20070302.R13B
Total Europium	1	ug/L	1	<1	<1	20070302.R13B
Total Gallium	1	ug/L	1	<1	<1	20070302.R13B
Total Iron	20	ug/L	20	<20	<20	20070302.R13B



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Work Order: 31313

ICPMS Tot. Water

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Lanthanum	1	ug/L	1	<1	<1	20070302.R13B
Total Lead	1	ug/L	1	<1	<1	20070302.R13B
Total Lithium	5	ug/L	5	<5	<5	20070302.R13B
Total Magnesium	4	ug/L	4	<4	<4	20070302.R13B
Total Manganese	1	ug/L	1	<1	<1	20070302.R13B
Total Mercury	0.1	ug/L	0.1	<0.1	<0.1	20070302.R13B
Total Molybdenum	1	ug/L	1	<1	<1	20070302.R13B
Total Nickel	1	ug/L	1	<1	<1	20070302.R13B
Total Niobium	1	ug/L	1	<1	<1	20070302.R13B
Total Rubidium	1	ug/L	1	<1	<1	20070302.R13B
Total Selenium	1	ug/L	1	<1	<1	20070302.R13B
Total Silver	5	ug/L	5	<5	<5	20070302.R13B
Total Strontium	1	ug/L	1	<1	<1	20070302.R13B
Total Thallium	1	ug/L	1	<1	<1	20070302.R13B
Total Thorium	1	ug/L	1	<1	<1	20070302.R13B
Total Tin	1	ug/L	1	<1	<1	20070302.R13B
Total Tungsten	1	ug/L	1	<1	<1	20070302.R13B
Total Uranium	1	ug/L	1	<1	<1	20070302.R13B
Total Vanadium	1	ug/L	1	<1	<1	20070302.R13B
Total Yttrium	1	ug/L	1	<1	<1	20070302.R13B
Total Zinc	1	ug/L	1	<1	<1	20070302.R13B
Total Zirconium	1	ug/L	1	<1	<1	20070302.R13B

Blank Spike (1011)						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Aluminum	1	ug/L	600	493	400	20070302.R13B
Total Arsenic	1	ug/L	120	101	80	20070302.R13B
Total Barium	1	ug/L	120	94	80	20070302.R13B
Total Beryllium	1	ug/L	125	101	75	20070302.R13B
Total Boron	2	ug/L	125	89.7	75	20070302.R13B
Total Cadmium	1	ug/L	120	108	80	20070302.R13B
Total Calcium	50	ug/L	1200	947	800	20070302.R13B
Total Chromium	1	ug/L	120	101	80	20070302.R13B
Total Cobalt	1	ug/L	120	100	80	20070302.R13B
Total Copper	1	ug/L	120	99.4	80	20070302.R13B
Total Iron	20	ug/L	600	494	400	20070302.R13B
Total Lead	1	ug/L	120	96.5	80	20070302.R13B
Total Magnesium	4	ug/L	1200	993	800	20070302.R13B
Total Manganese	1	ug/L	120	105	80	20070302.R13B
Total Molybdenum	1	ug/L	120	99.4	80	20070302.R13B
Total Nickel	1	ug/L	120	100	80	20070302.R13B
Total Selenium	1	ug/L	120	99.8	80	20070302.R13B
Total Thallium	1	ug/L	120	97.4	80	20070302.R13B
Total Vanadium	1	ug/L	120	97.7	80	20070302.R13B
Total Zinc	1	ug/L	120	95.8	80	20070302.R13B



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Work Order: 31313

ICPMS Water

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Calcium	0.1	ug/L	0.1	<0.1	<0.1	20070302.R13A
Magnesium	4	ug/L	4	<4	<4	20070302.R13A

Blank Spike (1011)						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Calcium	50	ug/L	1200	947	800	20070302.R13A
Magnesium	4	ug/L	1200	993	800	20070302.R13A

TDS

200 mg/L Control						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Dissolved Solids	25	mg/L	240	200	160	20070306.R27C

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Dissolved Solids	25	mg/L	<25	<25	<25	20070306.R27C

TOC Water

20 ppm Blank Spike						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Organic Carbon	0.4	mg/L	22	21.3	18	20070305.R55.2A

Method Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Organic Carbon	0.4	mg/L	0.4	<0.4	<0.4	20070305.R55.2A

TSS

160 mg/L Control						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Suspended Solids	6	mg/L	192	165	128	20070306.R27A
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Suspended Solids	6	mg/L	192	165	128	20070306.R27B

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Suspended Solids	3	mg/L	<3	<3	<3	20070306.R27A
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Suspended Solids	3	mg/L	<3	<3	<3	20070306.R27B

UCL Upper Control Limit

LCL Lower Control Limit



TESTMARK Laboratories Ltd.

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Analytical Report

Client:	Jay Dickison	Work Order Number:	35906
Company:	Golder Associates Ltd.- Sudbury	Date Order Received:	6/11/2007
Address:	1010 Lorne Street Sudbury, Ontario, P3C 4R9	Regulation:	PWQO
Phone:	(705) 524-6861	PO #:	
Fax:	(705) 524-1984	Project #:	Laudore Resources
Email:	jay-dickison@golder.com		
	DOC, NO2/NO3 exceeded hold time prior to laboratory submission		

Analyses were performed on the following samples submitted with your order.

The results relate only to the items tested.

Sample Name	Lab #	Matrix	Type	Comments	Date Collected	Time Collected
L4 - S	123869	Water	Grab		6/5/2007	9:00
L4 - M	123870	Water	Grab		6/5/2007	9:05
L4 - B	123871	Water	Grab		6/5/2007	9:10
L3 - S	123872	Water	Grab		6/5/2007	19:00
L2 - S	123873	Water	Grab		6/5/2007	16:10
L2 - M	123874	Water	Grab		6/5/2007	16:15
L2 - B	123875	Water	Grab		6/5/2007	16:20
R1	123876	Water	Grab		6/5/2007	14:00
R2	123877	Water	Grab		6/5/2007	14:10
R3	123878	Water	Grab		6/5/2007	11:50



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Golder Associates Ltd.- Sudbury

Work Order: 35906

The following instrumentation and references methods were used for your sample(s)

Method Name	Description	Reference
Alk by FIA	Determination of m-Alkalinity by Flow Injection Analysis Instrument group: Skalar San++ FIA	Mod. EPA 310.2
AmmoniaFIA	Determination of Ammonia/Ammonium by Flow Analysis Instrument group: Skalar San++ FIA	Mod. APHA-4500
Anions Water	Determination of Anions by Ion Chromatography Instrument group: Dionex DX300 HPIC	Mod. SW846-9056
DOC Water	Determination of Dissolved Organic Carbon in Water Instrument group: Dohrman TOC Analyzer	Mod. APHA-5310
Hardness/ICP	Determination of Hardness in Water by ICP Instrument group: Perkin Elmer Elan 5000	Mod. SW846-6020
ICPMS Dis. Water	Determination of Dissolved Metals in Water by ICP/MS Instrument group: Perkin Elmer Elan 5000	Mod. SW846-6020
ICPMS Tot. Water	Determination of Total Metals in Water by ICP/MS with Digestion Instrument group: Perkin Elmer Elan 5000	Mod. SW846-6020
TDS	Determination of Total Dissolved Solids in water by gravimetry Instrument group: Mettler Analytical Balance	Mod. APHA-2540
TOC Water	Determination of Total Organic Carbon in Water Instrument group: Dohrman TOC Analyzer	Mod. APHA-5310
TP Water	Determination of Total Phosphorus by FIA/UV Digestion Instrument group: Skalar San++ FIA	Mod. APHA-4500
TSS	Determination of Total Suspended Solids in water by gravimetry Instrument group: Mettler Analytical Balance	Mod. APHA-2540

This report has been approved by:

Dr. Xiaojing Li
Chief Chemist

Dr. Robert Hamel
Inorganic Section Head



TESTMARK Laboratories Ltd.

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Golder Associates Ltd. - Sudbury

Work Order: 35906

Sample Data:

Sample Name: L4 - S

Date: 6/5/2007

Matrix: Water

Lab #: 123869

Alk by FIA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	50	mg/L	20070614.R69A

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.064	mg/L	20070613.R42A

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.21	mg/L	20070612.R5D
Fluoride	0.1	<0.1	mg/L	20070612.R5D
Nitrate (as N)	0.1	<0.1	mg/L	20070612.R5D
Nitrite (as N)	0.03	<0.03	mg/L	20070612.R5D
Sulfate	1	1.2	mg/L	20070612.R5D

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	17	mg/L	20070621.R55.1A

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.05	13.3	mg/L	20070617.R13I
Magnesium	0.004	2.81	mg/L	20070617.R13I
Total Hardness (as CaCO ₃)	0.1	44.9	mg/L	20070617.R13I

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	21.9	ug/L	20070617.R13E
Dissolved Aluminum (Dup)	1	22	ug/L	20070617.R13E
Dissolved Antimony	0.5	<0.5	ug/L	20070617.R13E
Dissolved Antimony (Dup)	0.5	<0.5	ug/L	20070617.R13E
Dissolved Arsenic	1	<1	ug/L	20070617.R13E
Dissolved Arsenic (Dup)	1	<1	ug/L	20070617.R13E
Dissolved Barium	1	4.9	ug/L	20070617.R13E
Dissolved Barium (Dup)	1	5	ug/L	20070617.R13E
Dissolved Beryllium	0.5	<0.5	ug/L	20070617.R13E
Dissolved Beryllium (Dup)	0.5	<0.5	ug/L	20070617.R13E
Dissolved Bismuth	1	<1	ug/L	20070617.R13E
Dissolved Bismuth (Dup)	1	<1	ug/L	20070617.R13E
Dissolved Boron	2	<2	ug/L	20070617.R13E
Dissolved Boron (Dup)	2	<2	ug/L	20070617.R13E
Dissolved Cadmium	0.1	<0.1	ug/L	20070617.R13E
Dissolved Cadmium (Dup)	0.1	<0.1	ug/L	20070617.R13E
Dissolved Calcium	50	12700	ug/L	20070617.R13E
Dissolved Calcium (Dup)	50	12200	ug/L	20070617.R13E
Dissolved Cerium	1	<1	ug/L	20070617.R13E
Dissolved Cerium (Dup)	1	<1	ug/L	20070617.R13E
Dissolved Cesium	1	<1	ug/L	20070617.R13E

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TESTMARK Laboratories Ltd.

Committed to Quality and Service

Golder Associates Ltd. - Sudbury

Work Order: 35906

Sample Name: L4 - S

Date: 6/5/2007

Matrix: Water

Lab #: 123869

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Cesium (Dup)	1	<1	ug/L	20070617.R13E
Dissolved Chromium	1	<1	ug/L	20070617.R13E
Dissolved Chromium (Dup)	1	<1	ug/L	20070617.R13E
Dissolved Cobalt	0.1	<0.1	ug/L	20070617.R13E
Dissolved Cobalt (Dup)	0.1	<0.1	ug/L	20070617.R13E
Dissolved Copper	1	<1	ug/L	20070617.R13E
Dissolved Copper (Dup)	1	<1	ug/L	20070617.R13E
Dissolved Europium	1	<1	ug/L	20070617.R13E
Dissolved Europium (Dup)	1	<1	ug/L	20070617.R13E
Dissolved Gallium	1	<1	ug/L	20070617.R13E
Dissolved Gallium (Dup)	1	<1	ug/L	20070617.R13E
Dissolved Iron	20	<20	ug/L	20070617.R13E
Dissolved Iron (Dup)	20	<20	ug/L	20070617.R13E
Dissolved Lanthanum	1	<1	ug/L	20070617.R13E
Dissolved Lanthanum (Dup)	1	<1	ug/L	20070617.R13E
Dissolved Lead	1	<1	ug/L	20070617.R13E
Dissolved Lead (Dup)	1	<1	ug/L	20070617.R13E
Dissolved Lithium	5	<5	ug/L	20070617.R13E
Dissolved Lithium (Dup)	5	<5	ug/L	20070617.R13E
Dissolved Magnesium	4	2560	ug/L	20070617.R13E
Dissolved Magnesium (Dup)	4	2510	ug/L	20070617.R13E
Dissolved Manganese	1	<1	ug/L	20070617.R13E
Dissolved Manganese (Dup)	1	<1	ug/L	20070617.R13E
Dissolved Mercury	0.1	<0.1	ug/L	20070617.R13E
Dissolved Mercury (Dup)	0.1	<0.1	ug/L	20070617.R13E
Dissolved Molybdenum	1	<1	ug/L	20070617.R13E
Dissolved Molybdenum (Dup)	1	<1	ug/L	20070617.R13E
Dissolved Nickel	1	1.5	ug/L	20070617.R13E
Dissolved Nickel (Dup)	1	1.4	ug/L	20070617.R13E
Dissolved Niobium	1	<1	ug/L	20070617.R13E
Dissolved Niobium (Dup)	1	<1	ug/L	20070617.R13E
Dissolved Rubidium	1	1.3	ug/L	20070617.R13E
Dissolved Rubidium (Dup)	1	1.4	ug/L	20070617.R13E
Dissolved Scandium	1	1.2	ug/L	20070617.R13E
Dissolved Scandium (Dup)	1	1.1	ug/L	20070617.R13E
Dissolved Selenium	1	<1	ug/L	20070617.R13E
Dissolved Selenium (Dup)	1	<1	ug/L	20070617.R13E
Dissolved Silver	0.1	<0.1	ug/L	20070617.R13E
Dissolved Silver (Dup)	0.1	<0.1	ug/L	20070617.R13E
Dissolved Strontium	1	13.4	ug/L	20070617.R13E
Dissolved Strontium (Dup)	1	13.5	ug/L	20070617.R13E
Dissolved Thallium	0.1	<0.1	ug/L	20070617.R13E
Dissolved Thallium (Dup)	0.1	<0.1	ug/L	20070617.R13E
Dissolved Thorium	1	<1	ug/L	20070617.R13E
Dissolved Thorium (Dup)	1	<1	ug/L	20070617.R13E
Dissolved Tin	1	<1	ug/L	20070617.R13E

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Golder Associates Ltd. - Sudbury

Work Order: 35906

Sample Name: L4 - S

Date: 6/5/2007

Matrix: Water

Lab #: 123869

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Tin (Dup)	1	<1	ug/L	20070617.R13E
Dissolved Titanium	1	1	ug/L	20070617.R13E
Dissolved Titanium (Dup)	1	1.1	ug/L	20070617.R13E
Dissolved Tungsten	1	<1	ug/L	20070617.R13E
Dissolved Tungsten (Dup)	1	<1	ug/L	20070617.R13E
Dissolved Uranium	1	<1	ug/L	20070617.R13E
Dissolved Uranium (Dup)	1	<1	ug/L	20070617.R13E
Dissolved Vanadium	1	<1	ug/L	20070617.R13E
Dissolved Vanadium (Dup)	1	<1	ug/L	20070617.R13E
Dissolved Yttrium	1	<1	ug/L	20070617.R13E
Dissolved Yttrium (Dup)	1	<1	ug/L	20070617.R13E
Dissolved Zinc	1	8.8	ug/L	20070617.R13E
Dissolved Zinc (Dup)	1	8.7	ug/L	20070617.R13E
Dissolved Zirconium	1	<1	ug/L	20070617.R13E
Dissolved Zirconium (Dup)	1	<1	ug/L	20070617.R13E

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	51	ug/L	20070617.R13G
Total Antimony	0.5	1.6	ug/L	20070617.R13G
Total Arsenic	1	1.2	ug/L	20070617.R13G
Total Barium	1	6	ug/L	20070617.R13G
Total Beryllium	0.5	<0.5	ug/L	20070617.R13G
Total Bismuth	1	<1	ug/L	20070617.R13G
Total Boron	2	4	ug/L	20070617.R13G
Total Cadmium	0.1	<0.1	ug/L	20070617.R13G
Total Calcium	50	13900	ug/L	20070617.R13G
Total Cerium	1	<1	ug/L	20070617.R13G
Total Cesium	1	<1	ug/L	20070617.R13G
Total Chromium	1	<1	ug/L	20070617.R13G
Total Cobalt	0.1	0.42	ug/L	20070617.R13G
Total Copper	1	<1	ug/L	20070617.R13G
Total Europium	1	<1	ug/L	20070617.R13G
Total Gallium	1	<1	ug/L	20070617.R13G
Total Iron	20	<20	ug/L	20070617.R13G
Total Lanthanum	1	<1	ug/L	20070617.R13G
Total Lead	1	<1	ug/L	20070617.R13G
Total Lithium	5	<5	ug/L	20070617.R13G
Total Magnesium	4	3050	ug/L	20070617.R13G
Total Manganese	1	5.8	ug/L	20070617.R13G
Total Mercury	0.1	<0.1	ug/L	20070617.R13G
Total Molybdenum	1	<1	ug/L	20070617.R13G
Total Nickel	1	1.6	ug/L	20070617.R13G
Total Niobium	1	<1	ug/L	20070617.R13G
Total Rubidium	1	1.3	ug/L	20070617.R13G
Total Scandium	1	1.5	ug/L	20070617.R13G



TESTMARK Laboratories Ltd.

Committed to Quality and Service

Golder Associates Ltd. - Sudbury

Work Order: 35906

Sample Name: L4 - S

Date: 6/5/2007

Matrix: Water

Lab #: 123869

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Selenium	1	<1	ug/L	20070617.R13G
Total Silver	0.1	<0.1	ug/L	20070617.R13G
Total Strontium	1	14.2	ug/L	20070617.R13G
Total Thallium	0.1	<0.1	ug/L	20070617.R13G
Total Thorium	1	<1	ug/L	20070617.R13G
Total Tin	1	<1	ug/L	20070617.R13G
Total Titanium	1	1.2	ug/L	20070617.R13G
Total Tungsten	1	<1	ug/L	20070617.R13G
Total Uranium	1	<1	ug/L	20070617.R13G
Total Vanadium	1	<1	ug/L	20070617.R13G
Total Yttrium	1	<1	ug/L	20070617.R13G
Total Zinc	1	12.1	ug/L	20070617.R13G
Total Zirconium	1	<1	ug/L	20070617.R13G

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	100	mg/L	20070618.R27C

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	12.6	mg/L	20070620.R55.2A

TP Water				
Parameter	MDL	Result	Units	QAQCID
Total Phosphorus (as P)	0.002	0.021	mg/L	20070613.R23.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20070618.R27B

Sample Name: L4 - M

Date: 6/5/2007

Matrix: Water

Lab #: 123870

Alk by FIA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	44	mg/L	20070614.R69A

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.1	mg/L	20070613.R42A

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	<0.2	mg/L	20070612.R5D
Fluoride	0.1	<0.1	mg/L	20070612.R5D
Nitrate (as N)	0.1	<0.1	mg/L	20070612.R5D
Nitrite (as N)	0.03	<0.03	mg/L	20070612.R5D
Sulfate	1	1.2	mg/L	20070612.R5D



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Committed to Quality and Service

Golder Associates Ltd. - Sudbury

Work Order: 35906

Sample Name: L4 - M

Date: 6/5/2007

Matrix: Water

Lab #: 123870

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	15.1	mg/L	20070621.R55.1A

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.05	13.5	mg/L	20070617.R13I
Magnesium	0.004	2.82	mg/L	20070617.R13I
Total Hardness (as CaCO3)	0.1	45.3	mg/L	20070617.R13I

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	23.9	ug/L	20070617.R13E
Dissolved Antimony	0.5	<0.5	ug/L	20070617.R13E
Dissolved Arsenic	1	<1	ug/L	20070617.R13E
Dissolved Barium	1	5.1	ug/L	20070617.R13E
Dissolved Beryllium	0.5	<0.5	ug/L	20070617.R13E
Dissolved Bismuth	1	<1	ug/L	20070617.R13E
Dissolved Boron	2	<2	ug/L	20070617.R13E
Dissolved Cadmium	0.1	<0.1	ug/L	20070617.R13E
Dissolved Calcium	50	12600	ug/L	20070617.R13E
Dissolved Cerium	1	<1	ug/L	20070617.R13E
Dissolved Cesium	1	<1	ug/L	20070617.R13E
Dissolved Chromium	1	<1	ug/L	20070617.R13E
Dissolved Cobalt	0.1	<0.1	ug/L	20070617.R13E
Dissolved Copper	1	<1	ug/L	20070617.R13E
Dissolved Europium	1	<1	ug/L	20070617.R13E
Dissolved Gallium	1	<1	ug/L	20070617.R13E
Dissolved Iron	20	<20	ug/L	20070617.R13E
Dissolved Lanthanum	1	<1	ug/L	20070617.R13E
Dissolved Lead	1	<1	ug/L	20070617.R13E
Dissolved Lithium	5	<5	ug/L	20070617.R13E
Dissolved Magnesium	4	2790	ug/L	20070617.R13E
Dissolved Manganese	1	<1	ug/L	20070617.R13E
Dissolved Mercury	0.1	<0.1	ug/L	20070617.R13E
Dissolved Molybdenum	1	<1	ug/L	20070617.R13E
Dissolved Nickel	1	<1	ug/L	20070617.R13E
Dissolved Niobium	1	<1	ug/L	20070617.R13E
Dissolved Rubidium	1	1.2	ug/L	20070617.R13E
Dissolved Scandium	1	1.1	ug/L	20070617.R13E
Dissolved Selenium	1	<1	ug/L	20070617.R13E
Dissolved Silver	0.1	<0.1	ug/L	20070617.R13E
Dissolved Strontium	1	12.6	ug/L	20070617.R13E
Dissolved Thallium	0.1	<0.1	ug/L	20070617.R13E
Dissolved Thorium	1	<1	ug/L	20070617.R13E
Dissolved Tin	1	1.1	ug/L	20070617.R13E
Dissolved Titanium	1	<1	ug/L	20070617.R13E
Dissolved Tungsten	1	<1	ug/L	20070617.R13E
Dissolved Uranium	1	<1	ug/L	20070617.R13E

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Work Order: 35906

Sample Name: L4 - M

Date: 6/5/2007

Matrix: Water

Lab #: 123870

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Vanadium	1	<1	ug/L	20070617.R13E
Dissolved Yttrium	1	<1	ug/L	20070617.R13E
Dissolved Zinc	1	3	ug/L	20070617.R13E
Dissolved Zirconium	1	<1	ug/L	20070617.R13E

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	51.1	ug/L	20070617.R13G
Total Antimony	0.5	<0.5	ug/L	20070617.R13G
Total Arsenic	1	<1	ug/L	20070617.R13G
Total Barium	1	6.3	ug/L	20070617.R13G
Total Beryllium	0.5	<0.5	ug/L	20070617.R13G
Total Bismuth	1	<1	ug/L	20070617.R13G
Total Boron	2	<2	ug/L	20070617.R13G
Total Cadmium	0.1	<0.1	ug/L	20070617.R13G
Total Calcium	50	14400	ug/L	20070617.R13G
Total Cerium	1	<1	ug/L	20070617.R13G
Total Cesium	1	<1	ug/L	20070617.R13G
Total Chromium	1	<1	ug/L	20070617.R13G
Total Cobalt	0.1	0.11	ug/L	20070617.R13G
Total Copper	1	1.4	ug/L	20070617.R13G
Total Europium	1	<1	ug/L	20070617.R13G
Total Gallium	1	<1	ug/L	20070617.R13G
Total Iron	20	<20	ug/L	20070617.R13G
Total Lanthanum	1	<1	ug/L	20070617.R13G
Total Lead	1	<1	ug/L	20070617.R13G
Total Lithium	5	<5	ug/L	20070617.R13G
Total Magnesium	4	2900	ug/L	20070617.R13G
Total Manganese	1	5.2	ug/L	20070617.R13G
Total Mercury	0.1	<0.1	ug/L	20070617.R13G
Total Molybdenum	1	<1	ug/L	20070617.R13G
Total Nickel	1	1.3	ug/L	20070617.R13G
Total Niobium	1	<1	ug/L	20070617.R13G
Total Rubidium	1	1.3	ug/L	20070617.R13G
Total Scandium	1	6.9	ug/L	20070617.R13G
Total Selenium	1	<1	ug/L	20070617.R13G
Total Silver	0.1	<0.1	ug/L	20070617.R13G
Total Strontium	1	13.6	ug/L	20070617.R13G
Total Thallium	0.1	<0.1	ug/L	20070617.R13G
Total Thorium	1	<1	ug/L	20070617.R13G
Total Tin	1	1.7	ug/L	20070617.R13G
Total Titanium	1	1.1	ug/L	20070617.R13G
Total Tungsten	1	<1	ug/L	20070617.R13G
Total Uranium	1	<1	ug/L	20070617.R13G
Total Vanadium	1	<1	ug/L	20070617.R13G
Total Yttrium	1	<1	ug/L	20070617.R13G



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Work Order: 35906

Sample Name: L4 - M

Date: 6/5/2007

Matrix: Water

Lab #: 123870

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Zinc	1	4.8	ug/L	20070617.R13G
Total Zirconium	1	<1	ug/L	20070617.R13G

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	85	mg/L	20070618.R27C

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	13.5	mg/L	20070620.R55.2A

TP Water				
Parameter	MDL	Result	Units	QAQCID
Total Phosphorus (as P)	0.002	0.03	mg/L	20070613.R23.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20070618.R27B

Sample Name: L4 - B

Date: 6/5/2007

Matrix: Water

Lab #: 123871

Alk by FIA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	42	mg/L	20070614.R69A

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.049	mg/L	20070613.R42A

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	<0.2	mg/L	20070612.R5D
Fluoride	0.1	<0.1	mg/L	20070612.R5D
Nitrate (as N)	0.1	<0.1	mg/L	20070612.R5D
Nitrite (as N)	0.03	<0.03	mg/L	20070612.R5D
Sulfate	1	1.1	mg/L	20070612.R5D

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	16.3	mg/L	20070621.R55.1A

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.05	13.4	mg/L	20070617.R13I
Magnesium	0.004	2.75	mg/L	20070617.R13I
Total Hardness (as CaCO ₃)	0.1	44.8	mg/L	20070617.R13I

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	29	ug/L	20070617.R13E
Dissolved Antimony	0.5	<0.5	ug/L	20070617.R13E

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Golder Associates Ltd. - Sudbury

Work Order: 35906

Sample Name: L4 - B

Date: 6/5/2007

Matrix: Water

Lab #: 123871

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Arsenic	1	<1	ug/L	20070617.R13E
Dissolved Barium	1	4.8	ug/L	20070617.R13E
Dissolved Beryllium	0.5	<0.5	ug/L	20070617.R13E
Dissolved Bismuth	1	<1	ug/L	20070617.R13E
Dissolved Boron	2	<2	ug/L	20070617.R13E
Dissolved Cadmium	0.1	<0.1	ug/L	20070617.R13E
Dissolved Calcium	50	12700	ug/L	20070617.R13E
Dissolved Cerium	1	<1	ug/L	20070617.R13E
Dissolved Cesium	1	<1	ug/L	20070617.R13E
Dissolved Chromium	1	<1	ug/L	20070617.R13E
Dissolved Cobalt	0.1	<0.1	ug/L	20070617.R13E
Dissolved Copper	1	1.2	ug/L	20070617.R13E
Dissolved Europium	1	<1	ug/L	20070617.R13E
Dissolved Gallium	1	<1	ug/L	20070617.R13E
Dissolved Iron	20	<20	ug/L	20070617.R13E
Dissolved Lanthanum	1	<1	ug/L	20070617.R13E
Dissolved Lead	1	<1	ug/L	20070617.R13E
Dissolved Lithium	5	<5	ug/L	20070617.R13E
Dissolved Magnesium	4	2580	ug/L	20070617.R13E
Dissolved Manganese	1	<1	ug/L	20070617.R13E
Dissolved Mercury	0.1	<0.1	ug/L	20070617.R13E
Dissolved Molybdenum	1	<1	ug/L	20070617.R13E
Dissolved Nickel	1	1	ug/L	20070617.R13E
Dissolved Niobium	1	<1	ug/L	20070617.R13E
Dissolved Rubidium	1	1.4	ug/L	20070617.R13E
Dissolved Scandium	1	1.2	ug/L	20070617.R13E
Dissolved Selenium	1	<1	ug/L	20070617.R13E
Dissolved Silver	0.1	<0.1	ug/L	20070617.R13E
Dissolved Strontium	1	13.9	ug/L	20070617.R13E
Dissolved Thallium	0.1	<0.1	ug/L	20070617.R13E
Dissolved Thorium	1	<1	ug/L	20070617.R13E
Dissolved Tin	1	<1	ug/L	20070617.R13E
Dissolved Titanium	1	<1	ug/L	20070617.R13E
Dissolved Tungsten	1	<1	ug/L	20070617.R13E
Dissolved Uranium	1	<1	ug/L	20070617.R13E
Dissolved Vanadium	1	<1	ug/L	20070617.R13E
Dissolved Yttrium	1	<1	ug/L	20070617.R13E
Dissolved Zinc	1	<1	ug/L	20070617.R13E
Dissolved Zirconium	1	<1	ug/L	20070617.R13E

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	65.6	ug/L	20070617.R13G
Total Antimony	0.5	<0.5	ug/L	20070617.R13G
Total Arsenic	1	<1	ug/L	20070617.R13G
Total Barium	1	6.3	ug/L	20070617.R13G



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Golder Associates Ltd.- Sudbury

Work Order: 35906

Sample Name: L4 - B

Date: 6/5/2007

Matrix: Water

Lab #: 123871

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Beryllium	0.5	<0.5	ug/L	20070617.R13G
Total Bismuth	1	<1	ug/L	20070617.R13G
Total Boron	2	<2	ug/L	20070617.R13G
Total Cadmium	0.1	<0.1	ug/L	20070617.R13G
Total Calcium	50	13700	ug/L	20070617.R13G
Total Cerium	1	<1	ug/L	20070617.R13G
Total Cesium	1	<1	ug/L	20070617.R13G
Total Chromium	1	<1	ug/L	20070617.R13G
Total Cobalt	0.1	<0.1	ug/L	20070617.R13G
Total Copper	1	1.7	ug/L	20070617.R13G
Total Europium	1	<1	ug/L	20070617.R13G
Total Gallium	1	<1	ug/L	20070617.R13G
Total Iron	20	<20	ug/L	20070617.R13G
Total Lanthanum	1	<1	ug/L	20070617.R13G
Total Lead	1	<1	ug/L	20070617.R13G
Total Lithium	5	<5	ug/L	20070617.R13G
Total Magnesium	4	2960	ug/L	20070617.R13G
Total Manganese	1	6.1	ug/L	20070617.R13G
Total Mercury	0.1	<0.1	ug/L	20070617.R13G
Total Molybdenum	1	<1	ug/L	20070617.R13G
Total Nickel	1	1.4	ug/L	20070617.R13G
Total Niobium	1	<1	ug/L	20070617.R13G
Total Rubidium	1	1.5	ug/L	20070617.R13G
Total Scandium	1	6.2	ug/L	20070617.R13G
Total Selenium	1	<1	ug/L	20070617.R13G
Total Silver	0.1	<0.1	ug/L	20070617.R13G
Total Strontium	1	14.7	ug/L	20070617.R13G
Total Thallium	0.1	<0.1	ug/L	20070617.R13G
Total Thorium	1	<1	ug/L	20070617.R13G
Total Tin	1	<1	ug/L	20070617.R13G
Total Titanium	1	1.9	ug/L	20070617.R13G
Total Tungsten	1	<1	ug/L	20070617.R13G
Total Uranium	1	<1	ug/L	20070617.R13G
Total Vanadium	1	<1	ug/L	20070617.R13G
Total Yttrium	1	<1	ug/L	20070617.R13G
Total Zinc	1	2.1	ug/L	20070617.R13G
Total Zirconium	1	<1	ug/L	20070617.R13G

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	90	mg/L	20070618.R27C

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	14.7	mg/L	20070620.R55.2A



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Work Order: 35906

Sample Name: L4 - B

Date: 6/5/2007

Matrix: Water

Lab #: 123871

TP Water				
Parameter	MDL	Result	Units	QAQCID
Total Phosphorus (as P)	0.002	0.026	mg/L	20070613.R23.2A
TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20070618.R27B

Sample Name: L3 - S

Date: 6/5/2007

Matrix: Water

Lab #: 123872

Alk by FIA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	40	mg/L	20070614.R69A
AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.053	mg/L	20070613.R42A

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	<0.2	mg/L	20070612.R5D
Fluoride	0.1	<0.1	mg/L	20070612.R5D
Nitrate (as N)	0.1	<0.1	mg/L	20070612.R5D
Nitrite (as N)	0.03	<0.03	mg/L	20070612.R5D
Sulfate	1	1.2	mg/L	20070612.R5D

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	22.2	mg/L	20070621.R55.1A

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.05	13.8	mg/L	20070617.R13I
Magnesium	0.004	2.07	mg/L	20070617.R13I
Total Hardness (as CaCO ₃)	0.1	43.1	mg/L	20070617.R13I

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	50.2	ug/L	20070617.R13E
Dissolved Antimony	0.5	<0.5	ug/L	20070617.R13E
Dissolved Arsenic	1	<1	ug/L	20070617.R13E
Dissolved Barium	1	4.3	ug/L	20070617.R13E
Dissolved Beryllium	0.5	<0.5	ug/L	20070617.R13E
Dissolved Bismuth	1	<1	ug/L	20070617.R13E
Dissolved Boron	2	<2	ug/L	20070617.R13E
Dissolved Cadmium	0.1	<0.1	ug/L	20070617.R13E
Dissolved Calcium	50	12100	ug/L	20070617.R13E
Dissolved Cerium	1	<1	ug/L	20070617.R13E
Dissolved Cesium	1	<1	ug/L	20070617.R13E
Dissolved Chromium	1	<1	ug/L	20070617.R13E
Dissolved Cobalt	0.1	<0.1	ug/L	20070617.R13E



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Work Order: 35906

Sample Name: L3 - S

Date: 6/5/2007

Matrix: Water

Lab #: 123872

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Copper	1	1.5	ug/L	20070617.R13E
Dissolved Europium	1	<1	ug/L	20070617.R13E
Dissolved Gallium	1	<1	ug/L	20070617.R13E
Dissolved Iron	20	<20	ug/L	20070617.R13E
Dissolved Lanthanum	1	<1	ug/L	20070617.R13E
Dissolved Lead	1	<1	ug/L	20070617.R13E
Dissolved Lithium	5	<5	ug/L	20070617.R13E
Dissolved Magnesium	4	2040	ug/L	20070617.R13E
Dissolved Manganese	1	<1	ug/L	20070617.R13E
Dissolved Mercury	0.1	<0.1	ug/L	20070617.R13E
Dissolved Molybdenum	1	<1	ug/L	20070617.R13E
Dissolved Nickel	1	<1	ug/L	20070617.R13E
Dissolved Niobium	1	<1	ug/L	20070617.R13E
Dissolved Rubidium	1	1.2	ug/L	20070617.R13E
Dissolved Scandium	1	1.4	ug/L	20070617.R13E
Dissolved Selenium	1	<1	ug/L	20070617.R13E
Dissolved Silver	0.1	<0.1	ug/L	20070617.R13E
Dissolved Strontium	1	12	ug/L	20070617.R13E
Dissolved Thallium	0.1	<0.1	ug/L	20070617.R13E
Dissolved Thorium	1	<1	ug/L	20070617.R13E
Dissolved Tin	1	1.1	ug/L	20070617.R13E
Dissolved Titanium	1	<1	ug/L	20070617.R13E
Dissolved Tungsten	1	<1	ug/L	20070617.R13E
Dissolved Uranium	1	<1	ug/L	20070617.R13E
Dissolved Vanadium	1	<1	ug/L	20070617.R13E
Dissolved Yttrium	1	<1	ug/L	20070617.R13E
Dissolved Zinc	1	<1	ug/L	20070617.R13E
Dissolved Zirconium	1	<1	ug/L	20070617.R13E

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	66.2	ug/L	20070617.R13G
Total Antimony	0.5	<0.5	ug/L	20070617.R13G
Total Arsenic	1	<1	ug/L	20070617.R13G
Total Barium	1	4.9	ug/L	20070617.R13G
Total Beryllium	0.5	<0.5	ug/L	20070617.R13G
Total Bismuth	1	<1	ug/L	20070617.R13G
Total Boron	2	<2	ug/L	20070617.R13G
Total Cadmium	0.1	<0.1	ug/L	20070617.R13G
Total Calcium	50	15800	ug/L	20070617.R13G
Total Cerium	1	<1	ug/L	20070617.R13G
Total Cesium	1	<1	ug/L	20070617.R13G
Total Chromium	1	<1	ug/L	20070617.R13G
Total Cobalt	0.1	<0.1	ug/L	20070617.R13G
Total Copper	1	1.6	ug/L	20070617.R13G
Total Europium	1	<1	ug/L	20070617.R13G



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Work Order: 35906

Sample Name: L3 - S

Date: 6/5/2007

Matrix: Water

Lab #: 123872

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Gallium	1	<1	ug/L	20070617.R13G
Total Iron	20	<20	ug/L	20070617.R13G
Total Lanthanum	1	<1	ug/L	20070617.R13G
Total Lead	1	<1	ug/L	20070617.R13G
Total Lithium	5	<5	ug/L	20070617.R13G
Total Magnesium	4	2160	ug/L	20070617.R13G
Total Manganese	1	2.7	ug/L	20070617.R13G
Total Mercury	0.1	<0.1	ug/L	20070617.R13G
Total Molybdenum	1	<1	ug/L	20070617.R13G
Total Nickel	1	1.2	ug/L	20070617.R13G
Total Niobium	1	<1	ug/L	20070617.R13G
Total Rubidium	1	1.5	ug/L	20070617.R13G
Total Scandium	1	7.8	ug/L	20070617.R13G
Total Selenium	1	<1	ug/L	20070617.R13G
Total Silver	0.1	<0.1	ug/L	20070617.R13G
Total Strontium	1	12.1	ug/L	20070617.R13G
Total Thallium	0.1	<0.1	ug/L	20070617.R13G
Total Thorium	1	<1	ug/L	20070617.R13G
Total Tin	1	1.9	ug/L	20070617.R13G
Total Titanium	1	<1	ug/L	20070617.R13G
Total Tungsten	1	<1	ug/L	20070617.R13G
Total Uranium	1	<1	ug/L	20070617.R13G
Total Vanadium	1	<1	ug/L	20070617.R13G
Total Yttrium	1	<1	ug/L	20070617.R13G
Total Zinc	1	3.6	ug/L	20070617.R13G
Total Zirconium	1	2.7	ug/L	20070617.R13G

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	95	mg/L	20070618.R27C

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	18.7	mg/L	20070620.R55.2A

TP Water				
Parameter	MDL	Result	Units	QAQCID
Total Phosphorus (as P)	0.002	0.024	mg/L	20070613.R23.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20070618.R27B

Sample Name: L2 - S

Date: 6/5/2007

Matrix: Water

Lab #: 123873

Alk by FIA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	45	mg/L	20070614.R69A



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Work Order: 35906

Sample Name: L2 - S

Date: 6/5/2007

Matrix: Water

Lab #: 123873

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.037	mg/L	20070613.R42A

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.25	mg/L	20070612.R5D
Fluoride	0.1	<0.1	mg/L	20070612.R5D
Nitrate (as N)	0.1	<0.1	mg/L	20070612.R5D
Nitrite (as N)	0.03	<0.03	mg/L	20070612.R5D
Sulfate	1	1.1	mg/L	20070612.R5D

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	13.4	mg/L	20070621.R55.1A

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.05	13.4	mg/L	20070617.R13I
Magnesium	0.004	2.92	mg/L	20070617.R13I
Total Hardness (as CaCO3)	0.1	45.6	mg/L	20070617.R13I

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	14.1	ug/L	20070617.R13E
Dissolved Antimony	0.5	<0.5	ug/L	20070617.R13E
Dissolved Arsenic	1	<1	ug/L	20070617.R13E
Dissolved Barium	1	5.1	ug/L	20070617.R13E
Dissolved Beryllium	0.5	<0.5	ug/L	20070617.R13E
Dissolved Bismuth	1	<1	ug/L	20070617.R13E
Dissolved Boron	2	<2	ug/L	20070617.R13E
Dissolved Cadmium	0.1	<0.1	ug/L	20070617.R13E
Dissolved Calcium	50	12100	ug/L	20070617.R13E
Dissolved Cerium	1	<1	ug/L	20070617.R13E
Dissolved Cesium	1	<1	ug/L	20070617.R13E
Dissolved Chromium	1	<1	ug/L	20070617.R13E
Dissolved Cobalt	0.1	<0.1	ug/L	20070617.R13E
Dissolved Copper	1	1.1	ug/L	20070617.R13E
Dissolved Europium	1	<1	ug/L	20070617.R13E
Dissolved Gallium	1	<1	ug/L	20070617.R13E
Dissolved Iron	20	<20	ug/L	20070617.R13E
Dissolved Lanthanum	1	<1	ug/L	20070617.R13E
Dissolved Lead	1	<1	ug/L	20070617.R13E
Dissolved Lithium	5	<5	ug/L	20070617.R13E
Dissolved Magnesium	4	2840	ug/L	20070617.R13E
Dissolved Manganese	1	<1	ug/L	20070617.R13E
Dissolved Mercury	0.1	<0.1	ug/L	20070617.R13E
Dissolved Molybdenum	1	<1	ug/L	20070617.R13E
Dissolved Nickel	1	<1	ug/L	20070617.R13E
Dissolved Niobium	1	<1	ug/L	20070617.R13E

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Work Order: 35906

Sample Name: L2 - S

Date: 6/5/2007

Matrix: Water

Lab #: 123873

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Rubidium	1	1.1	ug/L	20070617.R13E
Dissolved Scandium	1	1.6	ug/L	20070617.R13E
Dissolved Selenium	1	<1	ug/L	20070617.R13E
Dissolved Silver	0.1	<0.1	ug/L	20070617.R13E
Dissolved Strontium	1	14.9	ug/L	20070617.R13E
Dissolved Thallium	0.1	<0.1	ug/L	20070617.R13E
Dissolved Thorium	1	<1	ug/L	20070617.R13E
Dissolved Tin	1	1.4	ug/L	20070617.R13E
Dissolved Titanium	1	<1	ug/L	20070617.R13E
Dissolved Tungsten	1	<1	ug/L	20070617.R13E
Dissolved Uranium	1	<1	ug/L	20070617.R13E
Dissolved Vanadium	1	<1	ug/L	20070617.R13E
Dissolved Yttrium	1	<1	ug/L	20070617.R13E
Dissolved Zinc	1	2.2	ug/L	20070617.R13E
Dissolved Zirconium	1	<1	ug/L	20070617.R13E

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	23.8	ug/L	20070617.R13G
Total Antimony	0.5	<0.5	ug/L	20070617.R13G
Total Arsenic	1	<1	ug/L	20070617.R13G
Total Barium	1	5.7	ug/L	20070617.R13G
Total Beryllium	0.5	<0.5	ug/L	20070617.R13G
Total Bismuth	1	<1	ug/L	20070617.R13G
Total Boron	2	<2	ug/L	20070617.R13G
Total Cadmium	0.1	<0.1	ug/L	20070617.R13G
Total Calcium	50	13200	ug/L	20070617.R13G
Total Cerium	1	<1	ug/L	20070617.R13G
Total Cesium	1	<1	ug/L	20070617.R13G
Total Chromium	1	1.2	ug/L	20070617.R13G
Total Cobalt	0.1	<0.1	ug/L	20070617.R13G
Total Copper	1	1.4	ug/L	20070617.R13G
Total Europium	1	<1	ug/L	20070617.R13G
Total Gallium	1	<1	ug/L	20070617.R13G
Total Iron	20	<20	ug/L	20070617.R13G
Total Lanthanum	1	<1	ug/L	20070617.R13G
Total Lead	1	<1	ug/L	20070617.R13G
Total Lithium	5	<5	ug/L	20070617.R13G
Total Magnesium	4	3090	ug/L	20070617.R13G
Total Manganese	1	2	ug/L	20070617.R13G
Total Mercury	0.1	<0.1	ug/L	20070617.R13G
Total Molybdenum	1	<1	ug/L	20070617.R13G
Total Nickel	1	1.2	ug/L	20070617.R13G
Total Niobium	1	<1	ug/L	20070617.R13G
Total Rubidium	1	1.4	ug/L	20070617.R13G
Total Scandium	1	7.8	ug/L	20070617.R13G



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Work Order: 35906

Sample Name: L2 - S

Date: 6/5/2007

Matrix: Water

Lab #: 123873

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Selenium	1	<1	ug/L	20070617.R13G
Total Silver	0.1	<0.1	ug/L	20070617.R13G
Total Strontium	1	15	ug/L	20070617.R13G
Total Thallium	0.1	<0.1	ug/L	20070617.R13G
Total Thorium	1	<1	ug/L	20070617.R13G
Total Tin	1	2.4	ug/L	20070617.R13G
Total Titanium	1	<1	ug/L	20070617.R13G
Total Tungsten	1	<1	ug/L	20070617.R13G
Total Uranium	1	<1	ug/L	20070617.R13G
Total Vanadium	1	<1	ug/L	20070617.R13G
Total Yttrium	1	<1	ug/L	20070617.R13G
Total Zinc	1	4.4	ug/L	20070617.R13G
Total Zirconium	1	<1	ug/L	20070617.R13G

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	86	mg/L	20070618.R27C

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	10.1	mg/L	20070620.R55.2A

TP Water				
Parameter	MDL	Result	Units	QAQCID
Total Phosphorus (as P)	0.002	0.042	mg/L	20070613.R23.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20070618.R27B

Sample Name: L2 - M

Date: 6/5/2007

Matrix: Water

Lab #: 123874

Alk by FIA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	41	mg/L	20070614.R69A

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.053	mg/L	20070613.R42A

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.23	mg/L	20070612.R5D
Fluoride	0.1	<0.1	mg/L	20070612.R5D
Nitrate (as N)	0.1	<0.1	mg/L	20070612.R5D
Nitrite (as N)	0.03	<0.03	mg/L	20070612.R5D
Sulfate	1	1.1	mg/L	20070612.R5D



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Work Order: 35906

Sample Name: L2 - M

Date: 6/5/2007

Matrix: Water

Lab #: 123874

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	13.1	mg/L	20070621.R55.1A

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.05	13.3	mg/L	20070617.R13I
Magnesium	0.004	2.94	mg/L	20070617.R13I
Total Hardness (as CaCO3)	0.1	45.3	mg/L	20070617.R13I

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	14.1	ug/L	20070617.R13E
Dissolved Antimony	0.5	<0.5	ug/L	20070617.R13E
Dissolved Arsenic	1	<1	ug/L	20070617.R13E
Dissolved Barium	1	4.7	ug/L	20070617.R13E
Dissolved Beryllium	0.5	<0.5	ug/L	20070617.R13E
Dissolved Bismuth	1	<1	ug/L	20070617.R13E
Dissolved Boron	2	<2	ug/L	20070617.R13E
Dissolved Cadmium	0.1	<0.1	ug/L	20070617.R13E
Dissolved Calcium	50	11800	ug/L	20070617.R13E
Dissolved Cerium	1	<1	ug/L	20070617.R13E
Dissolved Cesium	1	<1	ug/L	20070617.R13E
Dissolved Chromium	1	<1	ug/L	20070617.R13E
Dissolved Cobalt	0.1	<0.1	ug/L	20070617.R13E
Dissolved Copper	1	<1	ug/L	20070617.R13E
Dissolved Europium	1	<1	ug/L	20070617.R13E
Dissolved Gallium	1	<1	ug/L	20070617.R13E
Dissolved Iron	20	<20	ug/L	20070617.R13E
Dissolved Lanthanum	1	<1	ug/L	20070617.R13E
Dissolved Lead	1	<1	ug/L	20070617.R13E
Dissolved Lithium	5	<5	ug/L	20070617.R13E
Dissolved Magnesium	4	2880	ug/L	20070617.R13E
Dissolved Manganese	1	<1	ug/L	20070617.R13E
Dissolved Mercury	0.1	<0.1	ug/L	20070617.R13E
Dissolved Molybdenum	1	<1	ug/L	20070617.R13E
Dissolved Nickel	1	1.5	ug/L	20070617.R13E
Dissolved Niobium	1	<1	ug/L	20070617.R13E
Dissolved Rubidium	1	1.2	ug/L	20070617.R13E
Dissolved Scandium	1	1.6	ug/L	20070617.R13E
Dissolved Selenium	1	<1	ug/L	20070617.R13E
Dissolved Silver	0.1	<0.1	ug/L	20070617.R13E
Dissolved Strontium	1	13.7	ug/L	20070617.R13E
Dissolved Thallium	0.1	<0.1	ug/L	20070617.R13E
Dissolved Thorium	1	<1	ug/L	20070617.R13E
Dissolved Tin	1	1	ug/L	20070617.R13E
Dissolved Titanium	1	<1	ug/L	20070617.R13E
Dissolved Tungsten	1	<1	ug/L	20070617.R13E
Dissolved Uranium	1	<1	ug/L	20070617.R13E

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Golder Associates Ltd.- Sudbury

Work Order: 35906

Sample Name: L2 - M

Date: 6/5/2007

Matrix: Water

Lab #: 123874

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Vanadium	1	<1	ug/L	20070617.R13E
Dissolved Yttrium	1	<1	ug/L	20070617.R13E
Dissolved Zinc	1	<1	ug/L	20070617.R13E
Dissolved Zirconium	1	<1	ug/L	20070617.R13E

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	27.3	ug/L	20070617.R13G
Total Antimony	0.5	<0.5	ug/L	20070617.R13G
Total Arsenic	1	<1	ug/L	20070617.R13G
Total Barium	1	5.8	ug/L	20070617.R13G
Total Beryllium	0.5	<0.5	ug/L	20070617.R13G
Total Bismuth	1	<1	ug/L	20070617.R13G
Total Boron	2	<2	ug/L	20070617.R13G
Total Cadmium	0.1	<0.1	ug/L	20070617.R13G
Total Calcium	50	13900	ug/L	20070617.R13G
Total Cerium	1	<1	ug/L	20070617.R13G
Total Cesium	1	<1	ug/L	20070617.R13G
Total Chromium	1	<1	ug/L	20070617.R13G
Total Cobalt	0.1	<0.1	ug/L	20070617.R13G
Total Copper	1	2.4	ug/L	20070617.R13G
Total Europium	1	<1	ug/L	20070617.R13G
Total Gallium	1	<1	ug/L	20070617.R13G
Total Iron	20	<20	ug/L	20070617.R13G
Total Lanthanum	1	<1	ug/L	20070617.R13G
Total Lead	1	<1	ug/L	20070617.R13G
Total Lithium	5	<5	ug/L	20070617.R13G
Total Magnesium	4	2950	ug/L	20070617.R13G
Total Manganese	1	2.4	ug/L	20070617.R13G
Total Mercury	0.1	<0.1	ug/L	20070617.R13G
Total Molybdenum	1	<1	ug/L	20070617.R13G
Total Nickel	1	2.3	ug/L	20070617.R13G
Total Niobium	1	<1	ug/L	20070617.R13G
Total Rubidium	1	1.2	ug/L	20070617.R13G
Total Scandium	1	8.6	ug/L	20070617.R13G
Total Selenium	1	<1	ug/L	20070617.R13G
Total Silver	0.1	<0.1	ug/L	20070617.R13G
Total Strontium	1	14.3	ug/L	20070617.R13G
Total Thallium	0.1	<0.1	ug/L	20070617.R13G
Total Thorium	1	<1	ug/L	20070617.R13G
Total Tin	1	1.3	ug/L	20070617.R13G
Total Titanium	1	<1	ug/L	20070617.R13G
Total Tungsten	1	<1	ug/L	20070617.R13G
Total Uranium	1	<1	ug/L	20070617.R13G
Total Vanadium	1	<1	ug/L	20070617.R13G
Total Yttrium	1	<1	ug/L	20070617.R13G



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Work Order: 35906

Sample Name: L2 - M **Date: 6/5/2007** **Matrix: Water** **Lab #: 123874**

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Zinc	1	1.7	ug/L	20070617.R13G
Total Zirconium	1	<1	ug/L	20070617.R13G

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	83	mg/L	20070618.R27C

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	10.7	mg/L	20070620.R55.2A

TP Water				
Parameter	MDL	Result	Units	QAQCID
Total Phosphorus (as P)	0.002	0.023	mg/L	20070613.R23.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20070618.R27B

Sample Name: L2 - B **Date: 6/5/2007** **Matrix: Water** **Lab #: 123875**

Alk by FIA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	43	mg/L	20070614.R69A

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.064	mg/L	20070613.R42A

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.23	mg/L	20070612.R5D
Fluoride	0.1	<0.1	mg/L	20070612.R5D
Nitrate (as N)	0.1	<0.1	mg/L	20070612.R5D
Nitrite (as N)	0.03	<0.03	mg/L	20070612.R5D
Sulfate	1	1.1	mg/L	20070612.R5D

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	12.7	mg/L	20070621.R55.1A

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.05	13.9	mg/L	20070617.R13I
Magnesium	0.004	3.15	mg/L	20070617.R13I
Total Hardness (as CaCO ₃)	0.1	47.7	mg/L	20070617.R13I

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	8.4	ug/L	20070617.R13E
Dissolved Antimony	0.5	<0.5	ug/L	20070617.R13E

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Work Order: 35906

Sample Name: L2 - B

Date: 6/5/2007

Matrix: Water

Lab #: 123875

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Arsenic	1	<1	ug/L	20070617.R13E
Dissolved Barium	1	4.9	ug/L	20070617.R13E
Dissolved Beryllium	0.5	<0.5	ug/L	20070617.R13E
Dissolved Bismuth	1	<1	ug/L	20070617.R13E
Dissolved Boron	2	<2	ug/L	20070617.R13E
Dissolved Cadmium	0.1	<0.1	ug/L	20070617.R13E
Dissolved Calcium	50	13300	ug/L	20070617.R13E
Dissolved Cerium	1	<1	ug/L	20070617.R13E
Dissolved Cesium	1	<1	ug/L	20070617.R13E
Dissolved Chromium	1	<1	ug/L	20070617.R13E
Dissolved Cobalt	0.1	<0.1	ug/L	20070617.R13E
Dissolved Copper	1	<1	ug/L	20070617.R13E
Dissolved Europium	1	<1	ug/L	20070617.R13E
Dissolved Gallium	1	<1	ug/L	20070617.R13E
Dissolved Iron	20	<20	ug/L	20070617.R13E
Dissolved Lanthanum	1	<1	ug/L	20070617.R13E
Dissolved Lead	1	<1	ug/L	20070617.R13E
Dissolved Lithium	5	<5	ug/L	20070617.R13E
Dissolved Magnesium	4	2890	ug/L	20070617.R13E
Dissolved Manganese	1	<1	ug/L	20070617.R13E
Dissolved Mercury	0.1	<0.1	ug/L	20070617.R13E
Dissolved Molybdenum	1	<1	ug/L	20070617.R13E
Dissolved Nickel	1	1.2	ug/L	20070617.R13E
Dissolved Niobium	1	<1	ug/L	20070617.R13E
Dissolved Rubidium	1	1.2	ug/L	20070617.R13E
Dissolved Scandium	1	1.7	ug/L	20070617.R13E
Dissolved Selenium	1	<1	ug/L	20070617.R13E
Dissolved Silver	0.1	<0.1	ug/L	20070617.R13E
Dissolved Strontium	1	15.5	ug/L	20070617.R13E
Dissolved Thallium	0.1	<0.1	ug/L	20070617.R13E
Dissolved Thorium	1	<1	ug/L	20070617.R13E
Dissolved Tin	1	1	ug/L	20070617.R13E
Dissolved Titanium	1	<1	ug/L	20070617.R13E
Dissolved Tungsten	1	<1	ug/L	20070617.R13E
Dissolved Uranium	1	<1	ug/L	20070617.R13E
Dissolved Vanadium	1	<1	ug/L	20070617.R13E
Dissolved Yttrium	1	<1	ug/L	20070617.R13E
Dissolved Zinc	1	<1	ug/L	20070617.R13E
Dissolved Zirconium	1	<1	ug/L	20070617.R13E

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	16	ug/L	20070617.R13G
Total Antimony	0.5	<0.5	ug/L	20070617.R13G
Total Arsenic	1	<1	ug/L	20070617.R13G
Total Barium	1	5.6	ug/L	20070617.R13G



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Work Order: 35906

Sample Name: L2 - B

Date: 6/5/2007

Matrix: Water

Lab #: 123875

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Beryllium	0.5	<0.5	ug/L	20070617.R13G
Total Bismuth	1	<1	ug/L	20070617.R13G
Total Boron	2	<2	ug/L	20070617.R13G
Total Cadmium	0.1	<0.1	ug/L	20070617.R13G
Total Calcium	50	14200	ug/L	20070617.R13G
Total Cerium	1	<1	ug/L	20070617.R13G
Total Cesium	1	<1	ug/L	20070617.R13G
Total Chromium	1	1.3	ug/L	20070617.R13G
Total Cobalt	0.1	<0.1	ug/L	20070617.R13G
Total Copper	1	1.3	ug/L	20070617.R13G
Total Europium	1	<1	ug/L	20070617.R13G
Total Gallium	1	<1	ug/L	20070617.R13G
Total Iron	20	<20	ug/L	20070617.R13G
Total Lanthanum	1	<1	ug/L	20070617.R13G
Total Lead	1	<1	ug/L	20070617.R13G
Total Lithium	5	<5	ug/L	20070617.R13G
Total Magnesium	4	3280	ug/L	20070617.R13G
Total Manganese	1	3.5	ug/L	20070617.R13G
Total Mercury	0.1	<0.1	ug/L	20070617.R13G
Total Molybdenum	1	<1	ug/L	20070617.R13G
Total Nickel	1	2.3	ug/L	20070617.R13G
Total Niobium	1	<1	ug/L	20070617.R13G
Total Rubidium	1	1.3	ug/L	20070617.R13G
Total Scandium	1	9.8	ug/L	20070617.R13G
Total Selenium	1	<1	ug/L	20070617.R13G
Total Silver	0.1	<0.1	ug/L	20070617.R13G
Total Strontium	1	15.7	ug/L	20070617.R13G
Total Thallium	0.1	<0.1	ug/L	20070617.R13G
Total Thorium	1	<1	ug/L	20070617.R13G
Total Tin	1	1.8	ug/L	20070617.R13G
Total Titanium	1	1.6	ug/L	20070617.R13G
Total Tungsten	1	<1	ug/L	20070617.R13G
Total Uranium	1	<1	ug/L	20070617.R13G
Total Vanadium	1	<1	ug/L	20070617.R13G
Total Yttrium	1	<1	ug/L	20070617.R13G
Total Zinc	1	<1	ug/L	20070617.R13G
Total Zirconium	1	<1	ug/L	20070617.R13G

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	75	mg/L	20070618.R27C

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	10.3	mg/L	20070620.R55.2A



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Golder Associates Ltd. - Sudbury

Work Order: 35906

Sample Name: L2 - B

Date: 6/5/2007

Matrix: Water

Lab #: 123875

TP Water				
Parameter	MDL	Result	Units	QAQCID
Total Phosphorus (as P)	0.002	0.027	mg/L	20070613.R23.2A
TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20070618.R27B

Sample Name: R1

Date: 6/5/2007

Matrix: Water

Lab #: 123876

Alk by FIA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	38	mg/L	20070614.R69A
AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.059	mg/L	20070613.R42A

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.25	mg/L	20070612.R5D
Fluoride	0.1	<0.1	mg/L	20070612.R5D
Nitrate (as N)	0.1	<0.1	mg/L	20070612.R5D
Nitrite (as N)	0.03	<0.03	mg/L	20070612.R5D
Sulfate	1	1.2	mg/L	20070612.R5D

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	15.3	mg/L	20070621.R55.1A

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.05	12.5	mg/L	20070617.R13I
Magnesium	0.004	2.76	mg/L	20070617.R13I
Total Hardness (as CaCO ₃)	0.1	42.5	mg/L	20070617.R13I

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	18.8	ug/L	20070617.R13E
Dissolved Antimony	0.5	<0.5	ug/L	20070617.R13E
Dissolved Arsenic	1	<1	ug/L	20070617.R13E
Dissolved Barium	1	5	ug/L	20070617.R13E
Dissolved Beryllium	0.5	<0.5	ug/L	20070617.R13E
Dissolved Bismuth	1	<1	ug/L	20070617.R13E
Dissolved Boron	2	<2	ug/L	20070617.R13E
Dissolved Cadmium	0.1	<0.1	ug/L	20070617.R13E
Dissolved Calcium	50	11100	ug/L	20070617.R13E
Dissolved Cerium	1	<1	ug/L	20070617.R13E
Dissolved Cesium	1	<1	ug/L	20070617.R13E
Dissolved Chromium	1	<1	ug/L	20070617.R13E
Dissolved Cobalt	0.1	<0.1	ug/L	20070617.R13E



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Golder Associates Ltd. - Sudbury

Work Order: 35906

Sample Name: R1

Date: 6/5/2007

Matrix: Water

Lab #: 123876

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Copper	1	<1	ug/L	20070617.R13E
Dissolved Europium	1	<1	ug/L	20070617.R13E
Dissolved Gallium	1	<1	ug/L	20070617.R13E
Dissolved Iron	20	<20	ug/L	20070617.R13E
Dissolved Lanthanum	1	<1	ug/L	20070617.R13E
Dissolved Lead	1	<1	ug/L	20070617.R13E
Dissolved Lithium	5	<5	ug/L	20070617.R13E
Dissolved Magnesium	4	2560	ug/L	20070617.R13E
Dissolved Manganese	1	<1	ug/L	20070617.R13E
Dissolved Mercury	0.1	<0.1	ug/L	20070617.R13E
Dissolved Molybdenum	1	<1	ug/L	20070617.R13E
Dissolved Nickel	1	1.3	ug/L	20070617.R13E
Dissolved Niobium	1	<1	ug/L	20070617.R13E
Dissolved Rubidium	1	1.2	ug/L	20070617.R13E
Dissolved Scandium	1	1.5	ug/L	20070617.R13E
Dissolved Selenium	1	<1	ug/L	20070617.R13E
Dissolved Silver	0.1	<0.1	ug/L	20070617.R13E
Dissolved Strontium	1	12.8	ug/L	20070617.R13E
Dissolved Thallium	0.1	<0.1	ug/L	20070617.R13E
Dissolved Thorium	1	<1	ug/L	20070617.R13E
Dissolved Tin	1	1	ug/L	20070617.R13E
Dissolved Titanium	1	<1	ug/L	20070617.R13E
Dissolved Tungsten	1	<1	ug/L	20070617.R13E
Dissolved Uranium	1	<1	ug/L	20070617.R13E
Dissolved Vanadium	1	<1	ug/L	20070617.R13E
Dissolved Yttrium	1	<1	ug/L	20070617.R13E
Dissolved Zinc	1	<1	ug/L	20070617.R13E
Dissolved Zirconium	1	<1	ug/L	20070617.R13E

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	29.4	ug/L	20070617.R13G
Total Antimony	0.5	<0.5	ug/L	20070617.R13G
Total Arsenic	1	<1	ug/L	20070617.R13G
Total Barium	1	5.6	ug/L	20070617.R13G
Total Beryllium	0.5	<0.5	ug/L	20070617.R13G
Total Bismuth	1	<1	ug/L	20070617.R13G
Total Boron	2	<2	ug/L	20070617.R13G
Total Cadmium	0.1	<0.1	ug/L	20070617.R13G
Total Calcium	50	13800	ug/L	20070617.R13G
Total Cerium	1	<1	ug/L	20070617.R13G
Total Cesium	1	<1	ug/L	20070617.R13G
Total Chromium	1	1.4	ug/L	20070617.R13G
Total Cobalt	0.1	<0.1	ug/L	20070617.R13G
Total Copper	1	<1	ug/L	20070617.R13G
Total Europium	1	<1	ug/L	20070617.R13G



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Golder Associates Ltd.- Sudbury

Work Order: 35906

Sample Name: R1

Date: 6/5/2007

Matrix: Water

Lab #: 123876

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Gallium	1	<1	ug/L	20070617.R13G
Total Iron	20	<20	ug/L	20070617.R13G
Total Lanthanum	1	<1	ug/L	20070617.R13G
Total Lead	1	<1	ug/L	20070617.R13G
Total Lithium	5	<5	ug/L	20070617.R13G
Total Magnesium	4	2890	ug/L	20070617.R13G
Total Manganese	1	1.7	ug/L	20070617.R13G
Total Mercury	0.1	<0.1	ug/L	20070617.R13G
Total Molybdenum	1	<1	ug/L	20070617.R13G
Total Nickel	1	2.2	ug/L	20070617.R13G
Total Niobium	1	<1	ug/L	20070617.R13G
Total Rubidium	1	1.3	ug/L	20070617.R13G
Total Scandium	1	8.7	ug/L	20070617.R13G
Total Selenium	1	<1	ug/L	20070617.R13G
Total Silver	0.1	<0.1	ug/L	20070617.R13G
Total Strontium	1	13.9	ug/L	20070617.R13G
Total Thallium	0.1	<0.1	ug/L	20070617.R13G
Total Thorium	1	<1	ug/L	20070617.R13G
Total Tin	1	2	ug/L	20070617.R13G
Total Titanium	1	<1	ug/L	20070617.R13G
Total Tungsten	1	<1	ug/L	20070617.R13G
Total Uranium	1	<1	ug/L	20070617.R13G
Total Vanadium	1	<1	ug/L	20070617.R13G
Total Yttrium	1	<1	ug/L	20070617.R13G
Total Zinc	1	<1	ug/L	20070617.R13G
Total Zirconium	1	<1	ug/L	20070617.R13G

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	73	mg/L	20070618.R27C

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	12.2	mg/L	20070620.R55.2A

TP Water				
Parameter	MDL	Result	Units	QAQCID
Total Phosphorus (as P)	0.002	0.024	mg/L	20070613.R23.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20070618.R27B

Sample Name: R2

Date: 6/5/2007

Matrix: Water

Lab #: 123877

Alk by FIA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	43	mg/L	20070614.R69A



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Work Order: 35906

Sample Name: R2

Date: 6/5/2007

Matrix: Water

Lab #: 123877

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.035	mg/L	20070613.R42A

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.2	mg/L	20070612.R5D
Fluoride	0.1	<0.1	mg/L	20070612.R5D
Nitrate (as N)	0.1	<0.1	mg/L	20070612.R5D
Nitrite (as N)	0.03	<0.03	mg/L	20070612.R5D
Sulfate	1	1.2	mg/L	20070612.R5D

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	15	mg/L	20070621.R55.1A

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.05	12.7	mg/L	20070617.R13I
Magnesium	0.004	2.8	mg/L	20070617.R13I
Total Hardness (as CaCO3)	0.1	43.3	mg/L	20070617.R13I

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	19.5	ug/L	20070617.R13E
Dissolved Antimony	0.5	<0.5	ug/L	20070617.R13E
Dissolved Arsenic	1	<1	ug/L	20070617.R13E
Dissolved Barium	1	5.2	ug/L	20070617.R13E
Dissolved Beryllium	0.5	<0.5	ug/L	20070617.R13E
Dissolved Bismuth	1	<1	ug/L	20070617.R13E
Dissolved Boron	2	<2	ug/L	20070617.R13E
Dissolved Cadmium	0.1	<0.1	ug/L	20070617.R13E
Dissolved Calcium	50	11000	ug/L	20070617.R13E
Dissolved Cerium	1	<1	ug/L	20070617.R13E
Dissolved Cesium	1	<1	ug/L	20070617.R13E
Dissolved Chromium	1	<1	ug/L	20070617.R13E
Dissolved Cobalt	0.1	<0.1	ug/L	20070617.R13E
Dissolved Copper	1	1	ug/L	20070617.R13E
Dissolved Europium	1	<1	ug/L	20070617.R13E
Dissolved Gallium	1	<1	ug/L	20070617.R13E
Dissolved Iron	20	<20	ug/L	20070617.R13E
Dissolved Lanthanum	1	<1	ug/L	20070617.R13E
Dissolved Lead	1	<1	ug/L	20070617.R13E
Dissolved Lithium	5	<5	ug/L	20070617.R13E
Dissolved Magnesium	4	2710	ug/L	20070617.R13E
Dissolved Manganese	1	<1	ug/L	20070617.R13E
Dissolved Mercury	0.1	<0.1	ug/L	20070617.R13E
Dissolved Molybdenum	1	<1	ug/L	20070617.R13E
Dissolved Nickel	1	1.6	ug/L	20070617.R13E
Dissolved Niobium	1	<1	ug/L	20070617.R13E

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Work Order: 35906

Sample Name: R2

Date: 6/5/2007

Matrix: Water

Lab #: 123877

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Rubidium	1	1.1	ug/L	20070617.R13E
Dissolved Scandium	1	1.5	ug/L	20070617.R13E
Dissolved Selenium	1	<1	ug/L	20070617.R13E
Dissolved Silver	0.1	<0.1	ug/L	20070617.R13E
Dissolved Strontium	1	13.1	ug/L	20070617.R13E
Dissolved Thallium	0.1	<0.1	ug/L	20070617.R13E
Dissolved Thorium	1	<1	ug/L	20070617.R13E
Dissolved Tin	1	<1	ug/L	20070617.R13E
Dissolved Titanium	1	<1	ug/L	20070617.R13E
Dissolved Tungsten	1	<1	ug/L	20070617.R13E
Dissolved Uranium	1	<1	ug/L	20070617.R13E
Dissolved Vanadium	1	<1	ug/L	20070617.R13E
Dissolved Yttrium	1	<1	ug/L	20070617.R13E
Dissolved Zinc	1	<1	ug/L	20070617.R13E
Dissolved Zirconium	1	<1	ug/L	20070617.R13E

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	27.6	ug/L	20070617.R13G
Total Antimony	0.5	<0.5	ug/L	20070617.R13G
Total Arsenic	1	<1	ug/L	20070617.R13G
Total Barium	1	5.7	ug/L	20070617.R13G
Total Beryllium	0.5	<0.5	ug/L	20070617.R13G
Total Bismuth	1	<1	ug/L	20070617.R13G
Total Boron	2	<2	ug/L	20070617.R13G
Total Cadmium	0.1	<0.1	ug/L	20070617.R13G
Total Calcium	50	13400	ug/L	20070617.R13G
Total Cerium	1	<1	ug/L	20070617.R13G
Total Cesium	1	<1	ug/L	20070617.R13G
Total Chromium	1	1.3	ug/L	20070617.R13G
Total Cobalt	0.1	<0.1	ug/L	20070617.R13G
Total Copper	1	1.1	ug/L	20070617.R13G
Total Europium	1	<1	ug/L	20070617.R13G
Total Gallium	1	<1	ug/L	20070617.R13G
Total Iron	20	<20	ug/L	20070617.R13G
Total Lanthanum	1	<1	ug/L	20070617.R13G
Total Lead	1	<1	ug/L	20070617.R13G
Total Lithium	5	<5	ug/L	20070617.R13G
Total Magnesium	4	2810	ug/L	20070617.R13G
Total Manganese	1	1.6	ug/L	20070617.R13G
Total Mercury	0.1	<0.1	ug/L	20070617.R13G
Total Molybdenum	1	<1	ug/L	20070617.R13G
Total Nickel	1	2.2	ug/L	20070617.R13G
Total Niobium	1	<1	ug/L	20070617.R13G
Total Rubidium	1	1.2	ug/L	20070617.R13G
Total Scandium	1	8	ug/L	20070617.R13G



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Work Order: 35906

Sample Name: R2

Date: 6/5/2007

Matrix: Water

Lab #: 123877

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Selenium	1	<1	ug/L	20070617.R13G
Total Silver	0.1	<0.1	ug/L	20070617.R13G
Total Strontium	1	14.7	ug/L	20070617.R13G
Total Thallium	0.1	<0.1	ug/L	20070617.R13G
Total Thorium	1	<1	ug/L	20070617.R13G
Total Tin	1	1.2	ug/L	20070617.R13G
Total Titanium	1	<1	ug/L	20070617.R13G
Total Tungsten	1	<1	ug/L	20070617.R13G
Total Uranium	1	<1	ug/L	20070617.R13G
Total Vanadium	1	<1	ug/L	20070617.R13G
Total Yttrium	1	<1	ug/L	20070617.R13G
Total Zinc	1	<1	ug/L	20070617.R13G
Total Zirconium	1	<1	ug/L	20070617.R13G

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	68	mg/L	20070618.R27C

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	11.9	mg/L	20070620.R55.2A

TP Water				
Parameter	MDL	Result	Units	QAQCID
Total Phosphorus (as P)	0.002	0.023	mg/L	20070613.R23.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20070618.R27B

Sample Name: R3

Date: 6/5/2007

Matrix: Water

Lab #: 123878

Alk by FIA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	34	mg/L	20070614.R69A

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.07	mg/L	20070613.R42A
Ammonia (as N) (Dup)	0.002	0.0692	mg/L	20070613.R42A

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.21	mg/L	20070612.R5D
Fluoride	0.1	<0.1	mg/L	20070612.R5D
Nitrate (as N)	0.1	<0.1	mg/L	20070612.R5D
Nitrite (as N)	0.03	<0.03	mg/L	20070612.R5D
Sulfate	1	1.1	mg/L	20070612.R5D



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Work Order: 35906

Sample Name: R3

Date: 6/5/2007

Matrix: Water

Lab #: 123878

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	23.6	mg/L	20070621.R55.1A
Dissolved Organic Carbon (Dup)	0.4	24.4	mg/L	20070621.R55.1A

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.05	12.6	mg/L	20070617.R13I
Calcium (Dup)	0.05	12.7	mg/L	20070617.R13I
Magnesium	0.004	1.95	mg/L	20070617.R13I
Magnesium (Dup)	0.004	1.98	mg/L	20070617.R13I
Total Hardness (as CaCO ₃)	0.1	39.4	mg/L	20070617.R13I
Total Hardness (as CaCO ₃) (Dup)	0.1	39.8	mg/L	20070617.R13I

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	54.7	ug/L	20070617.R13E
Dissolved Antimony	0.5	<0.5	ug/L	20070617.R13E
Dissolved Arsenic	1	1.3	ug/L	20070617.R13E
Dissolved Barium	1	4.5	ug/L	20070617.R13E
Dissolved Beryllium	0.5	<0.5	ug/L	20070617.R13E
Dissolved Bismuth	1	<1	ug/L	20070617.R13E
Dissolved Boron	2	<2	ug/L	20070617.R13E
Dissolved Cadmium	0.1	<0.1	ug/L	20070617.R13E
Dissolved Calcium	50	11900	ug/L	20070617.R13E
Dissolved Cerium	1	<1	ug/L	20070617.R13E
Dissolved Cesium	1	<1	ug/L	20070617.R13E
Dissolved Chromium	1	<1	ug/L	20070617.R13E
Dissolved Cobalt	0.1	<0.1	ug/L	20070617.R13E
Dissolved Copper	1	1.2	ug/L	20070617.R13E
Dissolved Europium	1	<1	ug/L	20070617.R13E
Dissolved Gallium	1	<1	ug/L	20070617.R13E
Dissolved Iron	20	<20	ug/L	20070617.R13E
Dissolved Lanthanum	1	<1	ug/L	20070617.R13E
Dissolved Lead	1	<1	ug/L	20070617.R13E
Dissolved Lithium	5	<5	ug/L	20070617.R13E
Dissolved Magnesium	4	1930	ug/L	20070617.R13E
Dissolved Manganese	1	<1	ug/L	20070617.R13E
Dissolved Mercury	0.1	<0.1	ug/L	20070617.R13E
Dissolved Molybdenum	1	<1	ug/L	20070617.R13E
Dissolved Nickel	1	1.1	ug/L	20070617.R13E
Dissolved Niobium	1	<1	ug/L	20070617.R13E
Dissolved Rubidium	1	1.6	ug/L	20070617.R13E
Dissolved Scandium	1	1.1	ug/L	20070617.R13E
Dissolved Selenium	1	<1	ug/L	20070617.R13E
Dissolved Silver	0.1	<0.1	ug/L	20070617.R13E
Dissolved Strontium	1	11.6	ug/L	20070617.R13E
Dissolved Thallium	0.1	<0.1	ug/L	20070617.R13E
Dissolved Thorium	1	<1	ug/L	20070617.R13E

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Work Order: 35906

Sample Name: R3

Date: 6/5/2007

Matrix: Water

Lab #: 123878

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Tin	1	<1	ug/L	20070617.R13E
Dissolved Titanium	1	<1	ug/L	20070617.R13E
Dissolved Tungsten	1	<1	ug/L	20070617.R13E
Dissolved Uranium	1	<1	ug/L	20070617.R13E
Dissolved Vanadium	1	<1	ug/L	20070617.R13E
Dissolved Yttrium	1	<1	ug/L	20070617.R13E
Dissolved Zinc	1	2.6	ug/L	20070617.R13E
Dissolved Zirconium	1	<1	ug/L	20070617.R13E

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	91	ug/L	20070617.R13G
Total Aluminum (Dup)	1	92.2	ug/L	20070617.R13G
Total Antimony	0.5	<0.5	ug/L	20070617.R13G
Total Antimony (Dup)	0.5	<0.5	ug/L	20070617.R13G
Total Arsenic	1	1.9	ug/L	20070617.R13G
Total Arsenic (Dup)	1	2	ug/L	20070617.R13G
Total Barium	1	5.5	ug/L	20070617.R13G
Total Barium (Dup)	1	5.4	ug/L	20070617.R13G
Total Beryllium	0.5	<0.5	ug/L	20070617.R13G
Total Beryllium (Dup)	0.5	<0.5	ug/L	20070617.R13G
Total Bismuth	1	<1	ug/L	20070617.R13G
Total Bismuth (Dup)	1	<1	ug/L	20070617.R13G
Total Boron	2	<2	ug/L	20070617.R13G
Total Boron (Dup)	2	<2	ug/L	20070617.R13G
Total Cadmium	0.1	<0.1	ug/L	20070617.R13G
Total Cadmium (Dup)	0.1	<0.1	ug/L	20070617.R13G
Total Calcium	50	13300	ug/L	20070617.R13G
Total Calcium (Dup)	50	13200	ug/L	20070617.R13G
Total Cerium	1	<1	ug/L	20070617.R13G
Total Cerium (Dup)	1	<1	ug/L	20070617.R13G
Total Cesium	1	<1	ug/L	20070617.R13G
Total Cesium (Dup)	1	<1	ug/L	20070617.R13G
Total Chromium	1	1.3	ug/L	20070617.R13G
Total Chromium (Dup)	1	1.2	ug/L	20070617.R13G
Total Cobalt	0.1	<0.1	ug/L	20070617.R13G
Total Cobalt (Dup)	0.1	<0.1	ug/L	20070617.R13G
Total Copper	1	1.9	ug/L	20070617.R13G
Total Copper (Dup)	1	1.9	ug/L	20070617.R13G
Total Europium	1	<1	ug/L	20070617.R13G
Total Europium (Dup)	1	<1	ug/L	20070617.R13G
Total Gallium	1	<1	ug/L	20070617.R13G
Total Gallium (Dup)	1	<1	ug/L	20070617.R13G
Total Iron	20	<20	ug/L	20070617.R13G
Total Iron (Dup)	20	<20	ug/L	20070617.R13G
Total Lanthanum	1	<1	ug/L	20070617.R13G



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Work Order: 35906

Sample Name: R3

Date: 6/5/2007

Matrix: Water

Lab #: 123878

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Lanthanum (Dup)	1	<1	ug/L	20070617.R13G
Total Lead	1	<1	ug/L	20070617.R13G
Total Lead (Dup)	1	<1	ug/L	20070617.R13G
Total Lithium	5	<5	ug/L	20070617.R13G
Total Lithium (Dup)	5	<5	ug/L	20070617.R13G
Total Magnesium	4	2070	ug/L	20070617.R13G
Total Magnesium (Dup)	4	2090	ug/L	20070617.R13G
Total Manganese	1	4.8	ug/L	20070617.R13G
Total Manganese (Dup)	1	4.8	ug/L	20070617.R13G
Total Mercury	0.1	<0.1	ug/L	20070617.R13G
Total Mercury (Dup)	0.1	<0.1	ug/L	20070617.R13G
Total Molybdenum	1	<1	ug/L	20070617.R13G
Total Molybdenum (Dup)	1	<1	ug/L	20070617.R13G
Total Nickel	1	1.4	ug/L	20070617.R13G
Total Nickel (Dup)	1	1.4	ug/L	20070617.R13G
Total Niobium	1	<1	ug/L	20070617.R13G
Total Niobium (Dup)	1	<1	ug/L	20070617.R13G
Total Rubidium	1	1.6	ug/L	20070617.R13G
Total Rubidium (Dup)	1	1.6	ug/L	20070617.R13G
Total Scandium	1	6.7	ug/L	20070617.R13G
Total Scandium (Dup)	1	6.5	ug/L	20070617.R13G
Total Selenium	1	<1	ug/L	20070617.R13G
Total Selenium (Dup)	1	<1	ug/L	20070617.R13G
Total Silver	0.1	<0.1	ug/L	20070617.R13G
Total Silver (Dup)	0.1	<0.1	ug/L	20070617.R13G
Total Strontium	1	12.6	ug/L	20070617.R13G
Total Strontium (Dup)	1	12.6	ug/L	20070617.R13G
Total Thallium	0.1	<0.1	ug/L	20070617.R13G
Total Thallium (Dup)	0.1	<0.1	ug/L	20070617.R13G
Total Thorium	1	<1	ug/L	20070617.R13G
Total Thorium (Dup)	1	<1	ug/L	20070617.R13G
Total Tin	1	1.6	ug/L	20070617.R13G
Total Tin (Dup)	1	1.5	ug/L	20070617.R13G
Total Titanium	1	1.7	ug/L	20070617.R13G
Total Titanium (Dup)	1	1.9	ug/L	20070617.R13G
Total Tungsten	1	<1	ug/L	20070617.R13G
Total Tungsten (Dup)	1	<1	ug/L	20070617.R13G
Total Uranium	1	<1	ug/L	20070617.R13G
Total Uranium (Dup)	1	<1	ug/L	20070617.R13G
Total Vanadium	1	<1	ug/L	20070617.R13G
Total Vanadium (Dup)	1	<1	ug/L	20070617.R13G
Total Yttrium	1	<1	ug/L	20070617.R13G
Total Yttrium (Dup)	1	<1	ug/L	20070617.R13G
Total Zinc	1	3.2	ug/L	20070617.R13G
Total Zinc (Dup)	1	3.2	ug/L	20070617.R13G
Total Zirconium	1	<1	ug/L	20070617.R13G

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Golder Associates Ltd.- Sudbury

Work Order: 35906

Sample Name: R3

Date: 6/5/2007

Matrix: Water

Lab #: 123878

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Zirconium (Dup)	1	<1	ug/L	20070617.R13G

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	68	mg/L	20070618.R27C
Total Dissolved Solids (Dup)	25	82	mg/L	20070618.R27C

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	20.2	mg/L	20070620.R55.2A

TP Water				
Parameter	MDL	Result	Units	QAQCID
Total Phosphorus (as P)	0.002	0.02	mg/L	20070613.R23.2A
Total Phosphorus (as P) (Dup)	0.002	0.024	mg/L	20070613.R23.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	8	mg/L	20070618.R27B
Total Suspended Solids (Dup)	6	7	mg/L	20070618.R27B

MDL Method detection limit or minimum reporting limit.

% Rec Surrogate compounds are added to the sample in some cases and the recovery is reported as a percent recovered.

QAQCID This is a unique reference to the quality control data set used to generate the reported value.

Data reported for organic analysis in soil samples are corrected for moisture content

Matrix If the matrix is a leachate, the sample was extracted according to regulation 558.

INT Interferences

TNTC Too numerous to count

ND Not detected



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Work Order: 35906

Quality Control Data:

Alk by FIA

200 mg/L Check Std.

Parameter	MDL	Units	UCL	Result	LCL	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	mg/L	220	191	180	20070614.R69A

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	mg/L	10	<10	<10	20070614.R69A

AmmoniaFIA

500 ppb HN3

Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Ammonia (as N)	0.002	mg/L	0.6	0.582	0.4	20070613.R42A

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Ammonia (as N)	0.002	mg/L	0.02	<0.002	<0.002	20070613.R42A

Anions Water

Blank (IC-2)						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Chloride	0.2	mg/L	0.5	<0.2	<0.2	20070612.R5D
Fluoride	0.1	mg/L	0.5	<0.1	<0.1	20070612.R5D
Nitrate (as N)	0.1	mg/L	0.5	<0.1	<0.1	20070612.R5D
Nitrite (as N)	0.03	mg/L	0.5	<0.03	<0.03	20070612.R5D
Sulfate	1	mg/L	1	<1	<1	20070612.R5D

Control (IC-2)						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Chloride	0.2	mg/L	100	89.9	80	20070612.R5D
Fluoride	0.1	mg/L	55	53.7	45	20070612.R5D
Nitrate (as N)	0.1	mg/L	55	45	40	20070612.R5D
Nitrite (as N)	0.03	mg/L	62	52.8	47	20070612.R5D
Sulfate	1	mg/L	100	87.4	78	20070612.R5D

DOC Water

20 ppm Blank Spike

Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Organic Carbon	0.4	mg/L	22	19.3	18	20070621.R55.1A

Method Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Organic Carbon	0.4	mg/L	0.4	<0.4	<0.4	20070621.R55.1A

ICPMS Dis. Water



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Work Order: 35906

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Aluminum	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Antimony	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Arsenic	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Barium	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Beryllium	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Bismuth	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Boron	2	ug/L	2	<2	<2	20070617.R13E
Dissolved Cadmium	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Calcium	50	ug/L	50	<50	<50	20070617.R13E
Dissolved Cerium	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Cesium	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Chromium	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Cobalt	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Copper	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Europium	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Gallium	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Iron	20	ug/L	20	<20	<20	20070617.R13E
Dissolved Lanthanum	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Lead	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Lithium	5	ug/L	5	<5	<5	20070617.R13E
Dissolved Magnesium	4	ug/L	4	<4	<4	20070617.R13E
Dissolved Manganese	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Mercury	0.1	ug/L	0.1	<0.1	<0.1	20070617.R13E
Dissolved Molybdenum	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Nickel	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Niobium	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Rubidium	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Scandium	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Selenium	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Silver	5	ug/L	5	<5	<5	20070617.R13E
Dissolved Strontium	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Thallium	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Thorium	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Tin	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Titanium	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Tungsten	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Uranium	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Vanadium	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Yttrium	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Zinc	1	ug/L	1	<1	<1	20070617.R13E
Dissolved Zirconium	1	ug/L	1	<1	<1	20070617.R13E

Blank Spike (1011)						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Aluminum	1	ug/L	600	468	400	20070617.R13E
Dissolved Arsenic	1	ug/L	120	94.4	80	20070617.R13E



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ICPMS Dis. Water

Blank Spike (1011)						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Barium	1	ug/L	120	98.8	80	20070617.R13E
Dissolved Beryllium	1	ug/L	125	85.4	75	20070617.R13E
Dissolved Boron	2	ug/L	125	95.5	75	20070617.R13E
Dissolved Cadmium	1	ug/L	120	92.9	80	20070617.R13E
Dissolved Calcium	50	ug/L	1200	890	800	20070617.R13E
Dissolved Chromium	1	ug/L	120	97.5	80	20070617.R13E
Dissolved Cobalt	1	ug/L	120	99.3	80	20070617.R13E
Dissolved Copper	1	ug/L	120	106	80	20070617.R13E
Dissolved Iron	20	ug/L	600	482	400	20070617.R13E
Dissolved Lead	1	ug/L	120	99.1	80	20070617.R13E
Dissolved Magnesium	4	ug/L	1200	914	800	20070617.R13E
Dissolved Manganese	1	ug/L	120	103	80	20070617.R13E
Dissolved Molybdenum	1	ug/L	120	100	80	20070617.R13E
Dissolved Nickel	1	ug/L	120	93.6	80	20070617.R13E
Dissolved Selenium	1	ug/L	120	90	80	20070617.R13E
Dissolved Thallium	1	ug/L	120	101	80	20070617.R13E
Dissolved Vanadium	1	ug/L	120	98.3	80	20070617.R13E
Dissolved Zinc	1	ug/L	120	89.7	80	20070617.R13E

ICPMS Tot. Water

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Aluminum	1	ug/L	1	<1	<1	20070617.R13G
Total Antimony	1	ug/L	1	<1	<1	20070617.R13G
Total Arsenic	1	ug/L	1	<1	<1	20070617.R13G
Total Barium	1	ug/L	1	<1	<1	20070617.R13G
Total Beryllium	1	ug/L	1	<1	<1	20070617.R13G
Total Bismuth	1	ug/L	1	<1	<1	20070617.R13G
Total Boron	2	ug/L	2	<2	<2	20070617.R13G
Total Cadmium	1	ug/L	1	<1	<1	20070617.R13G
Total Cerium	1	ug/L	1	<1	<1	20070617.R13G
Total Cesium	1	ug/L	1	<1	<1	20070617.R13G
Total Chromium	1	ug/L	1	<1	<1	20070617.R13G
Total Cobalt	1	ug/L	1	<1	<1	20070617.R13G
Total Copper	1	ug/L	1	<1	<1	20070617.R13G
Total Europium	1	ug/L	1	<1	<1	20070617.R13G
Total Gallium	1	ug/L	1	<1	<1	20070617.R13G
Total Iron	20	ug/L	20	<20	<20	20070617.R13G
Total Lanthanum	1	ug/L	1	<1	<1	20070617.R13G
Total Lead	1	ug/L	1	<1	<1	20070617.R13G
Total Lithium	5	ug/L	5	<5	<5	20070617.R13G
Total Magnesium	4	ug/L	4	<4	<4	20070617.R13G
Total Manganese	1	ug/L	1	<1	<1	20070617.R13G
Total Mercury	0.1	ug/L	0.1	<0.1	<0.1	20070617.R13G
Total Molybdenum	1	ug/L	1	<1	<1	20070617.R13G



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ICPMS Tot. Water

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Nickel	1	ug/L	1	<1	<1	20070617.R13G
Total Niobium	1	ug/L	1	<1	<1	20070617.R13G
Total Rubidium	1	ug/L	1	<1	<1	20070617.R13G
Total Selenium	1	ug/L	1	<1	<1	20070617.R13G
Total Silver	5	ug/L	5	<5	<5	20070617.R13G
Total Strontium	1	ug/L	1	<1	<1	20070617.R13G
Total Thallium	1	ug/L	1	<1	<1	20070617.R13G
Total Thorium	1	ug/L	1	<1	<1	20070617.R13G
Total Tin	1	ug/L	1	<1	<1	20070617.R13G
Total Tungsten	1	ug/L	1	<1	<1	20070617.R13G
Total Uranium	1	ug/L	1	<1	<1	20070617.R13G
Total Vanadium	1	ug/L	1	<1	<1	20070617.R13G
Total Yttrium	1	ug/L	1	<1	<1	20070617.R13G
Total Zinc	1	ug/L	1	<1	<1	20070617.R13G
Total Zirconium	1	ug/L	1	<1	<1	20070617.R13G

Blank Spike (1011)

Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Aluminum	1	ug/L	600	488	400	20070617.R13G
Total Arsenic	1	ug/L	120	93.6	80	20070617.R13G
Total Barium	1	ug/L	120	101	80	20070617.R13G
Total Beryllium	1	ug/L	125	93.9	75	20070617.R13G
Total Boron	2	ug/L	125	98.3	75	20070617.R13G
Total Cadmium	1	ug/L	120	94.8	80	20070617.R13G
Total Calcium	50	ug/L	1200	1000	800	20070617.R13G
Total Chromium	1	ug/L	120	99.6	80	20070617.R13G
Total Cobalt	1	ug/L	120	99.7	80	20070617.R13G
Total Copper	1	ug/L	120	102	80	20070617.R13G
Total Iron	20	ug/L	600	507	400	20070617.R13G
Total Lead	1	ug/L	120	99.9	80	20070617.R13G
Total Magnesium	4	ug/L	1200	969	800	20070617.R13G
Total Manganese	1	ug/L	120	104	80	20070617.R13G
Total Molybdenum	1	ug/L	120	100	80	20070617.R13G
Total Nickel	1	ug/L	120	95.7	80	20070617.R13G
Total Selenium	1	ug/L	120	89.6	80	20070617.R13G
Total Thallium	1	ug/L	120	99.6	80	20070617.R13G
Total Vanadium	1	ug/L	120	101	80	20070617.R13G
Total Zinc	1	ug/L	120	93.6	80	20070617.R13G

ICPMS Water

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Calcium	0.1	ug/L	0.1	<0.1	<0.1	20070617.R13I
Magnesium	4	ug/L	4	<4	<4	20070617.R13I



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Work Order: 35906

ICPMS Water

Blank Spike (1011)						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Calcium	50	ug/L	1200	914	800	20070617.R13I
Magnesium	4	ug/L	1200	909	800	20070617.R13I

TDS

200 mg/L Control						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Dissolved Solids	25	mg/L	240	200	160	20070618.R27C

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Dissolved Solids	25	mg/L	<25	<25	<25	20070618.R27C

TOC Water

20 ppm Blank Spike						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Organic Carbon	0.4	mg/L	22	21.1	18	20070620.R55.2A

Method Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Organic Carbon	0.4	mg/L	0.4	<0.4	<0.4	20070620.R55.2A

TP Water

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0.005	<0.002	<0.002	20070613.R23.2A

Control (0.05 mg/L)						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0.06	0.056	0.04	20070613.R23.2A

TSS

160 mg/L Control						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Suspended Solids	6	mg/L	192	160	128	20070618.R27B

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Suspended Solids	3	mg/L	<3	<3	<3	20070618.R27B

UCL Upper Control Limit

LCL Lower Control Limit



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Analytical Report

Client:	Rob Mellow	Work Order Number:	40367
Company:	Golder Associates Ltd.- Sudbury	Date Order Received:	8/21/2007
Address:	1010 Lorne Street Sudbury, ON, P3C 4R9	Regulation:	PWQO
Phone:	(705) 524-6861	PO #:	
Fax:	(705) 524-1984	Project #:	07-1192-0070
Email:	rob_mellow@golder.com		

Analyses were performed on the following samples submitted with your order.

The results relate only to the items tested.

Sample Name	Lab #	Matrix	Type	Comments	Date Collected	Time Collected
R2	135451	Water	Grab		8/16/2007	14:29
R3	135452	Water	Grab		8/16/2007	13:05
L2-S	135453	Water	Grab		8/17/2007	12:09
L2-M	135454	Water	Grab		8/17/2007	12:09
L2-B	135455	Water	Grab		8/17/2007	12:09
L3-S	135456	Water	Grab		8/17/2007	16:20
L4-S	135457	Water	Grab		8/17/2007	14:45
L4-M	135458	Water	Grab		8/17/2007	14:45
L4-B	135459	Water	Grab		8/17/2007	14:45
WELL	135460	Water	Grab		8/17/2007	15:19



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Golder Associates Ltd.- Sudbury

Work Order: 40367

The following instrumentation and references methods were used for your sample(s)

Method Name	Description	Reference
Alk by FIA	Determination of m-Alkalinity by Flow Injection Analysis Instrument group: Skalar San++ FIA	Mod. EPA 310.2
AmmoniaFIA	Determination of Ammonia/Ammonium by Flow Analysis Instrument group: Skalar San++ FIA	Mod. APHA-4500
Anions Water	Determination of Anions by Ion Chromatography Instrument group: Dionex DX300 IC	Mod. SW846-9056
DOC Water	Determination of Dissolved Organic Carbon in Water Instrument group: Dohrman TOC Analyzer	Mod. APHA-5310
Hardness/ICP	Determination of Hardness in Water by ICP Instrument group: Perkin Elmer Elan 5000	Mod. SW846-6020
ICPMS Dis. Water	Determination of Dissolved Metals in Water by ICP/MS Instrument group: Perkin Elmer Elan 5000	Mod. SW846-6020
ICPMS Tot. Water	Determination of Total Metals in Water by ICP/MS with Digestion Instrument group: Perkin Elmer Elan 5000	Mod. SW846-6020
TDS	Determination of Total Dissolved Solids in water by gravimetry Instrument group: Mettler Analytical Balance	Mod. APHA-2540
TOC Water	Determination of Total Organic Carbon in Water Instrument group: Dohrman TOC Analyzer	Mod. APHA-5310
TP Water	Determination of Total Phosphorus by FIA/UV Digestion Instrument group: Skalar San++ FIA	Mod. APHA-4500
TSS	Determination of Total Suspended Solids in water by gravimetry Instrument group: Mettler Analytical Balance	Mod. APHA-2540

This report has been approved by:

Dr. Xiaojing Li
Chief Chemist

Dr. Robert Hamel
Inorganic Section Head



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Golder Associates Ltd.- Sudbury

Work Order: 40367

Sample Data:

Sample Name: R2

Date: 8/16/2007

Matrix: Water

Lab #: 135451

Alk by FIA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	59	mg/L	20070823.R69A

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.035	mg/L	20070823.R42D

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.26	mg/L	20070822.R5B
Fluoride	0.1	<0.1	mg/L	20070822.R5B
Nitrate (as N)	0.1	<0.1	mg/L	20070822.R5B
Nitrite (as N)	0.03	<0.03	mg/L	20070822.R5B
Sulfate	1	<1	mg/L	20070822.R5B

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	13	mg/L	20070824.R55.1A

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.05	18.1	mg/L	20070822.R13H
Magnesium	0.004	2.99	mg/L	20070822.R13H
Total Hardness (as CaCO ₃)	0.1	57.4	mg/L	20070822.R13H

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	22.7	ug/L	20070822.R13D
Dissolved Antimony	0.5	<0.5	ug/L	20070822.R13D
Dissolved Arsenic	1	<1	ug/L	20070822.R13D
Dissolved Barium	1	7.2	ug/L	20070822.R13D
Dissolved Beryllium	0.5	<0.5	ug/L	20070822.R13D
Dissolved Bismuth	1	<1	ug/L	20070822.R13D
Dissolved Boron	2	<2	ug/L	20070822.R13D
Dissolved Cadmium	0.1	<0.1	ug/L	20070822.R13D
Dissolved Calcium	50	13400	ug/L	20070822.R13D
Dissolved Cerium	1	<1	ug/L	20070822.R13D
Dissolved Cesium	1	<1	ug/L	20070822.R13D
Dissolved Chromium	1	<1	ug/L	20070822.R13D
Dissolved Cobalt	0.1	0.12	ug/L	20070822.R13D
Dissolved Copper	1	1.1	ug/L	20070822.R13D
Dissolved Europium	1	<1	ug/L	20070822.R13D
Dissolved Gallium	1	<1	ug/L	20070822.R13D
Dissolved Iron	20	41	ug/L	20070822.R13D
Dissolved Lanthanum	1	<1	ug/L	20070822.R13D
Dissolved Lead	1	<1	ug/L	20070822.R13D
Dissolved Lithium	5	<5	ug/L	20070822.R13D
Dissolved Magnesium	4	2930	ug/L	20070822.R13D

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9/5/2007

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Golder Associates Ltd. - Sudbury

Work Order: 40367

Sample Name: R2

Date: 8/16/2007

Matrix: Water

Lab #: 135451

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Manganese	1	1.2	ug/L	20070822.R13D
Dissolved Mercury	0.1	<0.1	ug/L	20070822.R13D
Dissolved Molybdenum	1	<1	ug/L	20070822.R13D
Dissolved Nickel	1	1.8	ug/L	20070822.R13D
Dissolved Niobium	1	<1	ug/L	20070822.R13D
Dissolved Rubidium	1	<1	ug/L	20070822.R13D
Dissolved Scandium	1	<1	ug/L	20070822.R13D
Dissolved Selenium	1	<1	ug/L	20070822.R13D
Dissolved Silver	0.1	<0.1	ug/L	20070822.R13D
Dissolved Strontium	1	17.5	ug/L	20070822.R13D
Dissolved Thallium	0.1	<0.1	ug/L	20070822.R13D
Dissolved Thorium	1	<1	ug/L	20070822.R13D
Dissolved Tin	1	<1	ug/L	20070822.R13D
Dissolved Titanium	1	<1	ug/L	20070822.R13D
Dissolved Tungsten	1	<1	ug/L	20070822.R13D
Dissolved Uranium	1	<1	ug/L	20070822.R13D
Dissolved Vanadium	1	<1	ug/L	20070822.R13D
Dissolved Yttrium	1	<1	ug/L	20070822.R13D
Dissolved Zinc	1	<1	ug/L	20070822.R13D
Dissolved Zirconium	1	<1	ug/L	20070822.R13D

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	39.5	ug/L	20070822.R13F
Total Antimony	0.5	<0.5	ug/L	20070822.R13F
Total Arsenic	1	<1	ug/L	20070822.R13F
Total Barium	1	8	ug/L	20070822.R13F
Total Beryllium	0.5	<0.5	ug/L	20070822.R13F
Total Bismuth	1	<1	ug/L	20070822.R13F
Total Boron	2	7	ug/L	20070822.R13F
Total Cadmium	0.1	<0.1	ug/L	20070822.R13F
Total Calcium	500	18000	ug/L	20070822.R13F
Total Cerium	1	<1	ug/L	20070822.R13F
Total Cesium	1	<1	ug/L	20070822.R13F
Total Chromium	1	<1	ug/L	20070822.R13F
Total Cobalt	0.1	0.19	ug/L	20070822.R13F
Total Copper	1	1.8	ug/L	20070822.R13F
Total Europium	1	<1	ug/L	20070822.R13F
Total Gallium	1	<1	ug/L	20070822.R13F
Total Iron	20	110	ug/L	20070822.R13F
Total Lanthanum	1	<1	ug/L	20070822.R13F
Total Lead	1	<1	ug/L	20070822.R13F
Total Lithium	5	<5	ug/L	20070822.R13F
Total Magnesium	4	3900	ug/L	20070822.R13F
Total Manganese	1	7.5	ug/L	20070822.R13F
Total Mercury	0.1	<0.1	ug/L	20070822.R13F

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9/5/2007

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TESTMARK Laboratories Ltd.

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Golder Associates Ltd.- Sudbury

Work Order: 40367

Sample Name: R2

Date: 8/16/2007

Matrix: Water

Lab #: 135451

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Molybdenum	1	<1	ug/L	20070822.R13F
Total Nickel	1	4.1	ug/L	20070822.R13F
Total Niobium	1	<1	ug/L	20070822.R13F
Total Rubidium	1	1.1	ug/L	20070822.R13F
Total Scandium	1	1.2	ug/L	20070822.R13F
Total Selenium	1	<1	ug/L	20070822.R13F
Total Silver	0.1	<0.1	ug/L	20070822.R13F
Total Strontium	1	17.5	ug/L	20070822.R13F
Total Thallium	0.1	<0.1	ug/L	20070822.R13F
Total Thorium	1	<1	ug/L	20070822.R13F
Total Tin	1	<1	ug/L	20070822.R13F
Total Titanium	1	1.5	ug/L	20070822.R13F
Total Tungsten	1	<1	ug/L	20070822.R13F
Total Uranium	1	<1	ug/L	20070822.R13F
Total Vanadium	1	<1	ug/L	20070822.R13F
Total Yttrium	1	<1	ug/L	20070822.R13F
Total Zinc	1	<1	ug/L	20070822.R13F
Total Zirconium	1	<1	ug/L	20070822.R13F

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	84	mg/L	20070824.R27A

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	17.2	mg/L	20070904.R55.2A

TP Water				
Parameter	MDL	Result	Units	QAQCID
Total Phosphorus (as P)	0.002	0.033	mg/L	20070828.R23.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20070824.R27B

Sample Name: R3

Date: 8/16/2007

Matrix: Water

Lab #: 135452

Alk by FIA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	65	mg/L	20070823.R69A

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.035	mg/L	20070823.R42D

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.35	mg/L	20070822.R5B
Fluoride	0.1	<0.1	mg/L	20070822.R5B

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Golder Associates Ltd.- Sudbury

Work Order: 40367

Sample Name: R3

Date: 8/16/2007

Matrix: Water

Lab #: 135452

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Nitrate (as N)	0.1	<0.1	mg/L	20070822.R5B
Nitrite (as N)	0.03	<0.03	mg/L	20070822.R5B
Sulfate	1	<1	mg/L	20070822.R5B

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	18.5	mg/L	20070904.R55.1A

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.05	21.4	mg/L	20070822.R13H
Magnesium	0.004	3.77	mg/L	20070822.R13H
Total Hardness (as CaCO ₃)	0.1	68.8	mg/L	20070822.R13H

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	26.8	ug/L	20070822.R13D
Dissolved Antimony	0.5	<0.5	ug/L	20070822.R13D
Dissolved Arsenic	1	1.2	ug/L	20070822.R13D
Dissolved Barium	1	6.4	ug/L	20070822.R13D
Dissolved Beryllium	0.5	<0.5	ug/L	20070822.R13D
Dissolved Bismuth	1	<1	ug/L	20070822.R13D
Dissolved Boron	2	5	ug/L	20070822.R13D
Dissolved Cadmium	0.1	<0.1	ug/L	20070822.R13D
Dissolved Calcium	50	18700	ug/L	20070822.R13D
Dissolved Cerium	1	<1	ug/L	20070822.R13D
Dissolved Cesium	1	<1	ug/L	20070822.R13D
Dissolved Chromium	1	<1	ug/L	20070822.R13D
Dissolved Cobalt	0.1	<0.1	ug/L	20070822.R13D
Dissolved Copper	1	<1	ug/L	20070822.R13D
Dissolved Europium	1	<1	ug/L	20070822.R13D
Dissolved Gallium	1	<1	ug/L	20070822.R13D
Dissolved Iron	20	78	ug/L	20070822.R13D
Dissolved Lanthanum	1	<1	ug/L	20070822.R13D
Dissolved Lead	1	<1	ug/L	20070822.R13D
Dissolved Lithium	5	<5	ug/L	20070822.R13D
Dissolved Magnesium	4	3270	ug/L	20070822.R13D
Dissolved Manganese	1	3.5	ug/L	20070822.R13D
Dissolved Mercury	0.1	<0.1	ug/L	20070822.R13D
Dissolved Molybdenum	1	<1	ug/L	20070822.R13D
Dissolved Nickel	1	1.3	ug/L	20070822.R13D
Dissolved Niobium	1	<1	ug/L	20070822.R13D
Dissolved Rubidium	1	<1	ug/L	20070822.R13D
Dissolved Scandium	1	<1	ug/L	20070822.R13D
Dissolved Selenium	1	<1	ug/L	20070822.R13D
Dissolved Silver	0.1	<0.1	ug/L	20070822.R13D
Dissolved Strontium	1	16.4	ug/L	20070822.R13D

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Work Order: 40367

Sample Name: R3

Date: 8/16/2007

Matrix: Water

Lab #: 135452

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Thallium	0.1	<0.1	ug/L	20070822.R13D
Dissolved Thorium	1	<1	ug/L	20070822.R13D
Dissolved Tin	1	<1	ug/L	20070822.R13D
Dissolved Titanium	1	<1	ug/L	20070822.R13D
Dissolved Tungsten	1	<1	ug/L	20070822.R13D
Dissolved Uranium	1	<1	ug/L	20070822.R13D
Dissolved Vanadium	1	<1	ug/L	20070822.R13D
Dissolved Yttrium	1	<1	ug/L	20070822.R13D
Dissolved Zinc	1	<1	ug/L	20070822.R13D
Dissolved Zirconium	1	<1	ug/L	20070822.R13D

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	45.9	ug/L	20070822.R13F
Total Antimony	0.5	<0.5	ug/L	20070822.R13F
Total Arsenic	1	2.8	ug/L	20070822.R13F
Total Barium	1	6.8	ug/L	20070822.R13F
Total Beryllium	0.5	<0.5	ug/L	20070822.R13F
Total Bismuth	1	<1	ug/L	20070822.R13F
Total Boron	2	6.6	ug/L	20070822.R13F
Total Cadmium	0.1	<0.1	ug/L	20070822.R13F
Total Calcium	500	20800	ug/L	20070822.R13F
Total Cerium	1	<1	ug/L	20070822.R13F
Total Cesium	1	<1	ug/L	20070822.R13F
Total Chromium	1	<1	ug/L	20070822.R13F
Total Cobalt	0.1	0.33	ug/L	20070822.R13F
Total Copper	1	1.2	ug/L	20070822.R13F
Total Europium	1	<1	ug/L	20070822.R13F
Total Gallium	1	<1	ug/L	20070822.R13F
Total Iron	20	140	ug/L	20070822.R13F
Total Lanthanum	1	<1	ug/L	20070822.R13F
Total Lead	1	<1	ug/L	20070822.R13F
Total Lithium	5	<5	ug/L	20070822.R13F
Total Magnesium	4	3830	ug/L	20070822.R13F
Total Manganese	1	16.4	ug/L	20070822.R13F
Total Mercury	0.1	<0.1	ug/L	20070822.R13F
Total Molybdenum	1	<1	ug/L	20070822.R13F
Total Nickel	1	3.2	ug/L	20070822.R13F
Total Niobium	1	<1	ug/L	20070822.R13F
Total Rubidium	1	1.1	ug/L	20070822.R13F
Total Scandium	1	1.5	ug/L	20070822.R13F
Total Selenium	1	<1	ug/L	20070822.R13F
Total Silver	0.1	<0.1	ug/L	20070822.R13F
Total Strontium	1	21.4	ug/L	20070822.R13F
Total Thallium	0.1	<0.1	ug/L	20070822.R13F
Total Thorium	1	<1	ug/L	20070822.R13F

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Work Order: 40367

Sample Name: R3

Date: 8/16/2007

Matrix: Water

Lab #: 135452

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Tin	1	<1	ug/L	20070822.R13F
Total Titanium	1	1.8	ug/L	20070822.R13F
Total Tungsten	1	<1	ug/L	20070822.R13F
Total Uranium	1	<1	ug/L	20070822.R13F
Total Vanadium	1	<1	ug/L	20070822.R13F
Total Yttrium	1	<1	ug/L	20070822.R13F
Total Zinc	1	1.8	ug/L	20070822.R13F
Total Zirconium	1	<1	ug/L	20070822.R13F

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	110	mg/L	20070824.R27A

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	19.9	mg/L	20070904.R55.2A

TP Water				
Parameter	MDL	Result	Units	QAQCID
Total Phosphorus (as P)	0.002	0.032	mg/L	20070828.R23.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20070824.R27B

Sample Name: L2-S

Date: 8/17/2007

Matrix: Water

Lab #: 135453

Alk by FIA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	44	mg/L	20070823.R69A

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.026	mg/L	20070823.R42D

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.41	mg/L	20070822.R5B
Fluoride	0.1	<0.1	mg/L	20070822.R5B
Nitrate (as N)	0.1	<0.1	mg/L	20070822.R5B
Nitrite (as N)	0.03	<0.03	mg/L	20070822.R5B
Sulfate	1	2	mg/L	20070822.R5B

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	13	mg/L	20070824.R55.1A

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.05	13.4	mg/L	20070822.R13H

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Work Order: 40367

Sample Name: L2-S

Date: 8/17/2007

Matrix: Water

Lab #: 135453

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Magnesium	0.004	3.65	mg/L	20070822.R13H
Total Hardness (as CaCO ₃)	0.1	48.6	mg/L	20070822.R13H

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	17.2	ug/L	20070822.R13D
Dissolved Antimony	0.5	<0.5	ug/L	20070822.R13D
Dissolved Arsenic	1	<1	ug/L	20070822.R13D
Dissolved Barium	1	5.1	ug/L	20070822.R13D
Dissolved Beryllium	0.5	<0.5	ug/L	20070822.R13D
Dissolved Bismuth	1	<1	ug/L	20070822.R13D
Dissolved Boron	2	5.4	ug/L	20070822.R13D
Dissolved Cadmium	0.1	<0.1	ug/L	20070822.R13D
Dissolved Calcium	50	10500	ug/L	20070822.R13D
Dissolved Cerium	1	<1	ug/L	20070822.R13D
Dissolved Cesium	1	<1	ug/L	20070822.R13D
Dissolved Chromium	1	<1	ug/L	20070822.R13D
Dissolved Cobalt	0.1	<0.1	ug/L	20070822.R13D
Dissolved Copper	1	<1	ug/L	20070822.R13D
Dissolved Europium	1	<1	ug/L	20070822.R13D
Dissolved Gallium	1	<1	ug/L	20070822.R13D
Dissolved Iron	20	<20	ug/L	20070822.R13D
Dissolved Lanthanum	1	<1	ug/L	20070822.R13D
Dissolved Lead	1	<1	ug/L	20070822.R13D
Dissolved Lithium	5	<5	ug/L	20070822.R13D
Dissolved Magnesium	4	2730	ug/L	20070822.R13D
Dissolved Manganese	1	<1	ug/L	20070822.R13D
Dissolved Mercury	0.1	<0.1	ug/L	20070822.R13D
Dissolved Molybdenum	1	<1	ug/L	20070822.R13D
Dissolved Nickel	1	1.1	ug/L	20070822.R13D
Dissolved Niobium	1	<1	ug/L	20070822.R13D
Dissolved Rubidium	1	1.2	ug/L	20070822.R13D
Dissolved Scandium	1	<1	ug/L	20070822.R13D
Dissolved Selenium	1	<1	ug/L	20070822.R13D
Dissolved Silver	0.1	<0.1	ug/L	20070822.R13D
Dissolved Strontium	1	14.1	ug/L	20070822.R13D
Dissolved Thallium	0.1	<0.1	ug/L	20070822.R13D
Dissolved Thorium	1	<1	ug/L	20070822.R13D
Dissolved Tin	1	<1	ug/L	20070822.R13D
Dissolved Titanium	1	<1	ug/L	20070822.R13D
Dissolved Tungsten	1	<1	ug/L	20070822.R13D
Dissolved Uranium	1	<1	ug/L	20070822.R13D
Dissolved Vanadium	1	<1	ug/L	20070822.R13D
Dissolved Yttrium	1	<1	ug/L	20070822.R13D
Dissolved Zinc	1	1.1	ug/L	20070822.R13D
Dissolved Zirconium	1	<1	ug/L	20070822.R13D

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Work Order: 40367

Sample Name: L2-S

Date: 8/17/2007

Matrix: Water

Lab #: 135453

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	30.2	ug/L	20070822.R13F
Total Antimony	0.5	<0.5	ug/L	20070822.R13F
Total Arsenic	1	<1	ug/L	20070822.R13F
Total Barium	1	5.4	ug/L	20070822.R13F
Total Beryllium	0.5	<0.5	ug/L	20070822.R13F
Total Bismuth	1	<1	ug/L	20070822.R13F
Total Boron	2	6.1	ug/L	20070822.R13F
Total Cadmium	0.1	<0.1	ug/L	20070822.R13F
Total Calcium	500	14400	ug/L	20070822.R13F
Total Cerium	1	<1	ug/L	20070822.R13F
Total Cesium	1	<1	ug/L	20070822.R13F
Total Chromium	1	<1	ug/L	20070822.R13F
Total Cobalt	0.1	<0.1	ug/L	20070822.R13F
Total Copper	1	<1	ug/L	20070822.R13F
Total Europium	1	<1	ug/L	20070822.R13F
Total Gallium	1	<1	ug/L	20070822.R13F
Total Iron	20	33	ug/L	20070822.R13F
Total Lanthanum	1	<1	ug/L	20070822.R13F
Total Lead	1	<1	ug/L	20070822.R13F
Total Lithium	5	<5	ug/L	20070822.R13F
Total Magnesium	4	3940	ug/L	20070822.R13F
Total Manganese	1	3.2	ug/L	20070822.R13F
Total Mercury	0.1	<0.1	ug/L	20070822.R13F
Total Molybdenum	1	<1	ug/L	20070822.R13F
Total Nickel	1	1.5	ug/L	20070822.R13F
Total Niobium	1	<1	ug/L	20070822.R13F
Total Rubidium	1	1.3	ug/L	20070822.R13F
Total Scandium	1	<1	ug/L	20070822.R13F
Total Selenium	1	<1	ug/L	20070822.R13F
Total Silver	0.1	<0.1	ug/L	20070822.R13F
Total Strontium	1	15.6	ug/L	20070822.R13F
Total Thallium	0.1	<0.1	ug/L	20070822.R13F
Total Thorium	1	<1	ug/L	20070822.R13F
Total Tin	1	<1	ug/L	20070822.R13F
Total Titanium	1	<1	ug/L	20070822.R13F
Total Tungsten	1	<1	ug/L	20070822.R13F
Total Uranium	1	<1	ug/L	20070822.R13F
Total Vanadium	1	<1	ug/L	20070822.R13F
Total Yttrium	1	<1	ug/L	20070822.R13F
Total Zinc	1	2.1	ug/L	20070822.R13F
Total Zirconium	1	<1	ug/L	20070822.R13F
TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	68	mg/L	20070824.R27A



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Work Order: 40367

Sample Name: L2-S

Date: 8/17/2007

Matrix: Water

Lab #: 135453

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	15	mg/L	20070904.R55.2A

TP Water				
Parameter	MDL	Result	Units	QAQCID
Total Phosphorus (as P)	0.002	0.023	mg/L	20070828.R23.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20070824.R27B

Sample Name: L2-M

Date: 8/17/2007

Matrix: Water

Lab #: 135454

Alk by FIA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	45	mg/L	20070823.R69A

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.03	mg/L	20070823.R42D

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.33	mg/L	20070822.R5B
Fluoride	0.1	<0.1	mg/L	20070822.R5B
Nitrate (as N)	0.1	<0.1	mg/L	20070822.R5B
Nitrite (as N)	0.03	<0.03	mg/L	20070822.R5B
Sulfate	1	1	mg/L	20070822.R5B

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	12	mg/L	20070824.R55.1A

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.05	12.9	mg/L	20070822.R13H
Magnesium	0.004	3.55	mg/L	20070822.R13H
Total Hardness (as CaCO ₃)	0.1	46.9	mg/L	20070822.R13H

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	17.3	ug/L	20070822.R13D
Dissolved Antimony	0.5	<0.5	ug/L	20070822.R13D
Dissolved Arsenic	1	<1	ug/L	20070822.R13D
Dissolved Barium	1	4.2	ug/L	20070822.R13D
Dissolved Beryllium	0.5	<0.5	ug/L	20070822.R13D
Dissolved Bismuth	1	<1	ug/L	20070822.R13D
Dissolved Boron	2	5	ug/L	20070822.R13D
Dissolved Cadmium	0.1	<0.1	ug/L	20070822.R13D
Dissolved Calcium	50	10500	ug/L	20070822.R13D
Dissolved Cerium	1	<1	ug/L	20070822.R13D

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Work Order: 40367

Sample Name: L2-M

Date: 8/17/2007

Matrix: Water

Lab #: 135454

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Cesium	1	<1	ug/L	20070822.R13D
Dissolved Chromium	1	<1	ug/L	20070822.R13D
Dissolved Cobalt	0.1	<0.1	ug/L	20070822.R13D
Dissolved Copper	1	<1	ug/L	20070822.R13D
Dissolved Europium	1	<1	ug/L	20070822.R13D
Dissolved Gallium	1	<1	ug/L	20070822.R13D
Dissolved Iron	20	<20	ug/L	20070822.R13D
Dissolved Lanthanum	1	<1	ug/L	20070822.R13D
Dissolved Lead	1	<1	ug/L	20070822.R13D
Dissolved Lithium	5	<5	ug/L	20070822.R13D
Dissolved Magnesium	4	2710	ug/L	20070822.R13D
Dissolved Manganese	1	<1	ug/L	20070822.R13D
Dissolved Mercury	0.1	<0.1	ug/L	20070822.R13D
Dissolved Molybdenum	1	<1	ug/L	20070822.R13D
Dissolved Nickel	1	1.1	ug/L	20070822.R13D
Dissolved Niobium	1	<1	ug/L	20070822.R13D
Dissolved Rubidium	1	1.2	ug/L	20070822.R13D
Dissolved Scandium	1	<1	ug/L	20070822.R13D
Dissolved Selenium	1	<1	ug/L	20070822.R13D
Dissolved Silver	0.1	<0.1	ug/L	20070822.R13D
Dissolved Strontium	1	13.9	ug/L	20070822.R13D
Dissolved Thallium	0.1	<0.1	ug/L	20070822.R13D
Dissolved Thorium	1	<1	ug/L	20070822.R13D
Dissolved Tin	1	<1	ug/L	20070822.R13D
Dissolved Titanium	1	<1	ug/L	20070822.R13D
Dissolved Tungsten	1	<1	ug/L	20070822.R13D
Dissolved Uranium	1	<1	ug/L	20070822.R13D
Dissolved Vanadium	1	<1	ug/L	20070822.R13D
Dissolved Yttrium	1	<1	ug/L	20070822.R13D
Dissolved Zinc	1	1.2	ug/L	20070822.R13D
Dissolved Zirconium	1	<1	ug/L	20070822.R13D

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	27.8	ug/L	20070822.R13F
Total Antimony	0.5	<0.5	ug/L	20070822.R13F
Total Arsenic	1	<1	ug/L	20070822.R13F
Total Barium	1	5	ug/L	20070822.R13F
Total Beryllium	0.5	<0.5	ug/L	20070822.R13F
Total Bismuth	1	<1	ug/L	20070822.R13F
Total Boron	2	6.3	ug/L	20070822.R13F
Total Cadmium	0.1	<0.1	ug/L	20070822.R13F
Total Calcium	500	13600	ug/L	20070822.R13F
Total Cerium	1	<1	ug/L	20070822.R13F
Total Cesium	1	<1	ug/L	20070822.R13F
Total Chromium	1	<1	ug/L	20070822.R13F



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Golder Associates Ltd.- Sudbury

Work Order: 40367

Sample Name: L2-M

Date: 8/17/2007

Matrix: Water

Lab #: 135454

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Cobalt	0.1	<0.1	ug/L	20070822.R13F
Total Copper	1	<1	ug/L	20070822.R13F
Total Europium	1	<1	ug/L	20070822.R13F
Total Gallium	1	<1	ug/L	20070822.R13F
Total Iron	20	20	ug/L	20070822.R13F
Total Lanthanum	1	<1	ug/L	20070822.R13F
Total Lead	1	<1	ug/L	20070822.R13F
Total Lithium	5	<5	ug/L	20070822.R13F
Total Magnesium	4	3780	ug/L	20070822.R13F
Total Manganese	1	2.8	ug/L	20070822.R13F
Total Mercury	0.1	<0.1	ug/L	20070822.R13F
Total Molybdenum	1	<1	ug/L	20070822.R13F
Total Nickel	1	1.4	ug/L	20070822.R13F
Total Niobium	1	<1	ug/L	20070822.R13F
Total Rubidium	1	1.2	ug/L	20070822.R13F
Total Scandium	1	<1	ug/L	20070822.R13F
Total Selenium	1	<1	ug/L	20070822.R13F
Total Silver	0.1	<0.1	ug/L	20070822.R13F
Total Strontium	1	15.1	ug/L	20070822.R13F
Total Thallium	0.1	<0.1	ug/L	20070822.R13F
Total Thorium	1	<1	ug/L	20070822.R13F
Total Tin	1	<1	ug/L	20070822.R13F
Total Titanium	1	<1	ug/L	20070822.R13F
Total Tungsten	1	<1	ug/L	20070822.R13F
Total Uranium	1	<1	ug/L	20070822.R13F
Total Vanadium	1	<1	ug/L	20070822.R13F
Total Yttrium	1	<1	ug/L	20070822.R13F
Total Zinc	1	3.9	ug/L	20070822.R13F
Total Zirconium	1	<1	ug/L	20070822.R13F

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	76	mg/L	20070824.R27A

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	12	mg/L	20070823.R55.2B

TP Water				
Parameter	MDL	Result	Units	QAQCID
Total Phosphorus (as P)	0.002	0.025	mg/L	20070828.R23.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20070824.R27B



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Work Order: 40367

Sample Name: L2-B

Date: 8/17/2007

Matrix: Water

Lab #: 135455

Alk by FIA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	87	mg/L	20070823.R69A

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.052	mg/L	20070823.R42D

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.48	mg/L	20070822.R5B
Fluoride	0.1	<0.1	mg/L	20070822.R5B
Nitrate (as N)	0.1	<0.1	mg/L	20070822.R5B
Nitrite (as N)	0.03	<0.03	mg/L	20070822.R5B
Sulfate	1	1.1	mg/L	20070822.R5B

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	7	mg/L	20070824.R55.1A

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.05	13.4	mg/L	20070822.R13H
Magnesium	0.004	3.09	mg/L	20070822.R13H
Total Hardness (as CaCO ₃)	0.1	46.2	mg/L	20070822.R13H

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	18.8	ug/L	20070822.R13D
Dissolved Antimony	0.5	<0.5	ug/L	20070822.R13D
Dissolved Arsenic	1	<1	ug/L	20070822.R13D
Dissolved Barium	1	4.6	ug/L	20070822.R13D
Dissolved Beryllium	0.5	<0.5	ug/L	20070822.R13D
Dissolved Bismuth	1	<1	ug/L	20070822.R13D
Dissolved Boron	2	2.6	ug/L	20070822.R13D
Dissolved Cadmium	0.1	<0.1	ug/L	20070822.R13D
Dissolved Calcium	50	12400	ug/L	20070822.R13D
Dissolved Cerium	1	<1	ug/L	20070822.R13D
Dissolved Cesium	1	<1	ug/L	20070822.R13D
Dissolved Chromium	1	<1	ug/L	20070822.R13D
Dissolved Cobalt	0.1	<0.1	ug/L	20070822.R13D
Dissolved Copper	1	<1	ug/L	20070822.R13D
Dissolved Europium	1	<1	ug/L	20070822.R13D
Dissolved Gallium	1	<1	ug/L	20070822.R13D
Dissolved Iron	20	<20	ug/L	20070822.R13D
Dissolved Lanthanum	1	<1	ug/L	20070822.R13D
Dissolved Lead	1	<1	ug/L	20070822.R13D
Dissolved Lithium	5	<5	ug/L	20070822.R13D
Dissolved Magnesium	4	2530	ug/L	20070822.R13D
Dissolved Manganese	1	<1	ug/L	20070822.R13D



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Work Order: 40367

Sample Name: L2-B

Date: 8/17/2007

Matrix: Water

Lab #: 135455

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Mercury	0.1	<0.1	ug/L	20070822.R13D
Dissolved Molybdenum	1	<1	ug/L	20070822.R13D
Dissolved Nickel	1	1.1	ug/L	20070822.R13D
Dissolved Niobium	1	<1	ug/L	20070822.R13D
Dissolved Rubidium	1	1.2	ug/L	20070822.R13D
Dissolved Scandium	1	<1	ug/L	20070822.R13D
Dissolved Selenium	1	<1	ug/L	20070822.R13D
Dissolved Silver	0.1	<0.1	ug/L	20070822.R13D
Dissolved Strontium	1	13.8	ug/L	20070822.R13D
Dissolved Thallium	0.1	<0.1	ug/L	20070822.R13D
Dissolved Thorium	1	<1	ug/L	20070822.R13D
Dissolved Tin	1	<1	ug/L	20070822.R13D
Dissolved Titanium	1	<1	ug/L	20070822.R13D
Dissolved Tungsten	1	<1	ug/L	20070822.R13D
Dissolved Uranium	1	<1	ug/L	20070822.R13D
Dissolved Vanadium	1	<1	ug/L	20070822.R13D
Dissolved Yttrium	1	<1	ug/L	20070822.R13D
Dissolved Zinc	1	1.2	ug/L	20070822.R13D
Dissolved Zirconium	1	<1	ug/L	20070822.R13D

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	28.6	ug/L	20070822.R13F
Total Antimony	0.5	<0.5	ug/L	20070822.R13F
Total Arsenic	1	<1	ug/L	20070822.R13F
Total Barium	1	4.9	ug/L	20070822.R13F
Total Beryllium	0.5	<0.5	ug/L	20070822.R13F
Total Bismuth	1	<1	ug/L	20070822.R13F
Total Boron	2	4.7	ug/L	20070822.R13F
Total Cadmium	0.1	<0.1	ug/L	20070822.R13F
Total Calcium	500	13900	ug/L	20070822.R13F
Total Cerium	1	<1	ug/L	20070822.R13F
Total Cesium	1	<1	ug/L	20070822.R13F
Total Chromium	1	<1	ug/L	20070822.R13F
Total Cobalt	0.1	0.14	ug/L	20070822.R13F
Total Copper	1	<1	ug/L	20070822.R13F
Total Europium	1	<1	ug/L	20070822.R13F
Total Gallium	1	<1	ug/L	20070822.R13F
Total Iron	20	36	ug/L	20070822.R13F
Total Lanthanum	1	<1	ug/L	20070822.R13F
Total Lead	1	<1	ug/L	20070822.R13F
Total Lithium	5	<5	ug/L	20070822.R13F
Total Magnesium	4	3590	ug/L	20070822.R13F
Total Manganese	1	2.7	ug/L	20070822.R13F
Total Mercury	0.1	<0.1	ug/L	20070822.R13F
Total Molybdenum	1	<1	ug/L	20070822.R13F



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Work Order: 40367

Sample Name: L2-B

Date: 8/17/2007

Matrix: Water

Lab #: 135455

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Nickel	1	1.2	ug/L	20070822.R13F
Total Niobium	1	<1	ug/L	20070822.R13F
Total Rubidium	1	1.3	ug/L	20070822.R13F
Total Scandium	1	1.7	ug/L	20070822.R13F
Total Selenium	1	<1	ug/L	20070822.R13F
Total Silver	0.1	<0.1	ug/L	20070822.R13F
Total Strontium	1	14.3	ug/L	20070822.R13F
Total Thallium	0.1	<0.1	ug/L	20070822.R13F
Total Thorium	1	<1	ug/L	20070822.R13F
Total Tin	1	<1	ug/L	20070822.R13F
Total Titanium	1	<1	ug/L	20070822.R13F
Total Tungsten	1	<1	ug/L	20070822.R13F
Total Uranium	1	<1	ug/L	20070822.R13F
Total Vanadium	1	<1	ug/L	20070822.R13F
Total Yttrium	1	<1	ug/L	20070822.R13F
Total Zinc	1	1.5	ug/L	20070822.R13F
Total Zirconium	1	1.4	ug/L	20070822.R13F

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	83	mg/L	20070824.R27A

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	11	mg/L	20070823.R55.2B

TP Water				
Parameter	MDL	Result	Units	QAQCID
Total Phosphorus (as P)	0.002	0.021	mg/L	20070828.R23.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20070824.R27B

Sample Name: L3-S

Date: 8/17/2007

Matrix: Water

Lab #: 135456

Alk by FIA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	76	mg/L	20070823.R69A

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.033	mg/L	20070823.R42D

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.25	mg/L	20070822.R5B
Fluoride	0.1	<0.1	mg/L	20070822.R5B
Nitrate (as N)	0.1	<0.1	mg/L	20070822.R5B

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9/5/2007

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Work Order: 40367

Sample Name: L3-S

Date: 8/17/2007

Matrix: Water

Lab #: 135456

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Nitrite (as N)	0.03	<0.03	mg/L	20070822.R5B
Sulfate	1	1.5	mg/L	20070822.R5B

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	11	mg/L	20070824.R55.1A

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.05	23	mg/L	20070822.R13H
Magnesium	0.004	2.9	mg/L	20070822.R13H
Total Hardness (as CaCO ₃)	0.1	69.3	mg/L	20070822.R13H

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	12.2	ug/L	20070822.R13D
Dissolved Antimony	0.5	<0.5	ug/L	20070822.R13D
Dissolved Arsenic	1	<1	ug/L	20070822.R13D
Dissolved Barium	1	6.1	ug/L	20070822.R13D
Dissolved Beryllium	0.5	<0.5	ug/L	20070822.R13D
Dissolved Bismuth	1	<1	ug/L	20070822.R13D
Dissolved Boron	2	<2	ug/L	20070822.R13D
Dissolved Cadmium	0.1	<0.1	ug/L	20070822.R13D
Dissolved Calcium	50	21400	ug/L	20070822.R13D
Dissolved Cerium	1	<1	ug/L	20070822.R13D
Dissolved Cesium	1	<1	ug/L	20070822.R13D
Dissolved Chromium	1	<1	ug/L	20070822.R13D
Dissolved Cobalt	0.1	0.12	ug/L	20070822.R13D
Dissolved Copper	1	1.2	ug/L	20070822.R13D
Dissolved Europium	1	<1	ug/L	20070822.R13D
Dissolved Gallium	1	<1	ug/L	20070822.R13D
Dissolved Iron	20	30	ug/L	20070822.R13D
Dissolved Lanthanum	1	<1	ug/L	20070822.R13D
Dissolved Lead	1	<1	ug/L	20070822.R13D
Dissolved Lithium	5	<5	ug/L	20070822.R13D
Dissolved Magnesium	4	2270	ug/L	20070822.R13D
Dissolved Manganese	1	<1	ug/L	20070822.R13D
Dissolved Mercury	0.1	<0.1	ug/L	20070822.R13D
Dissolved Molybdenum	1	<1	ug/L	20070822.R13D
Dissolved Nickel	1	1.5	ug/L	20070822.R13D
Dissolved Niobium	1	<1	ug/L	20070822.R13D
Dissolved Rubidium	1	<1	ug/L	20070822.R13D
Dissolved Scandium	1	<1	ug/L	20070822.R13D
Dissolved Selenium	1	<1	ug/L	20070822.R13D
Dissolved Silver	0.1	<0.1	ug/L	20070822.R13D
Dissolved Strontium	1	15	ug/L	20070822.R13D
Dissolved Thallium	0.1	<0.1	ug/L	20070822.R13D

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Work Order: 40367

Sample Name: L3-S

Date: 8/17/2007

Matrix: Water

Lab #: 135456

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Thorium	1	<1	ug/L	20070822.R13D
Dissolved Tin	1	<1	ug/L	20070822.R13D
Dissolved Titanium	1	<1	ug/L	20070822.R13D
Dissolved Tungsten	1	<1	ug/L	20070822.R13D
Dissolved Uranium	1	<1	ug/L	20070822.R13D
Dissolved Vanadium	1	<1	ug/L	20070822.R13D
Dissolved Yttrium	1	<1	ug/L	20070822.R13D
Dissolved Zinc	1	1.5	ug/L	20070822.R13D
Dissolved Zirconium	1	<1	ug/L	20070822.R13D

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	47	ug/L	20070822.R13F
Total Antimony	0.5	<0.5	ug/L	20070822.R13F
Total Arsenic	1	<1	ug/L	20070822.R13F
Total Barium	1	6.1	ug/L	20070822.R13F
Total Beryllium	0.5	<0.5	ug/L	20070822.R13F
Total Bismuth	1	<1	ug/L	20070822.R13F
Total Boron	2	3.7	ug/L	20070822.R13F
Total Cadmium	0.1	<0.1	ug/L	20070822.R13F
Total Calcium	500	24700	ug/L	20070822.R13F
Total Cerium	1	<1	ug/L	20070822.R13F
Total Cesium	1	<1	ug/L	20070822.R13F
Total Chromium	1	<1	ug/L	20070822.R13F
Total Cobalt	0.1	0.13	ug/L	20070822.R13F
Total Copper	1	1.5	ug/L	20070822.R13F
Total Europium	1	<1	ug/L	20070822.R13F
Total Gallium	1	<1	ug/L	20070822.R13F
Total Iron	20	34	ug/L	20070822.R13F
Total Lanthanum	1	<1	ug/L	20070822.R13F
Total Lead	1	<1	ug/L	20070822.R13F
Total Lithium	5	<5	ug/L	20070822.R13F
Total Magnesium	4	3990	ug/L	20070822.R13F
Total Manganese	1	2.6	ug/L	20070822.R13F
Total Mercury	0.1	<0.1	ug/L	20070822.R13F
Total Molybdenum	1	<1	ug/L	20070822.R13F
Total Nickel	1	1.5	ug/L	20070822.R13F
Total Niobium	1	<1	ug/L	20070822.R13F
Total Rubidium	1	<1	ug/L	20070822.R13F
Total Scandium	1	1.7	ug/L	20070822.R13F
Total Selenium	1	<1	ug/L	20070822.R13F
Total Silver	0.1	<0.1	ug/L	20070822.R13F
Total Strontium	1	19.5	ug/L	20070822.R13F
Total Thallium	0.1	<0.1	ug/L	20070822.R13F
Total Thorium	1	<1	ug/L	20070822.R13F
Total Tin	1	<1	ug/L	20070822.R13F



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Work Order: 40367

Sample Name: L3-S

Date: 8/17/2007

Matrix: Water

Lab #: 135456

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Titanium	1	1.4	ug/L	20070822.R13F
Total Tungsten	1	<1	ug/L	20070822.R13F
Total Uranium	1	<1	ug/L	20070822.R13F
Total Vanadium	1	<1	ug/L	20070822.R13F
Total Yttrium	1	<1	ug/L	20070822.R13F
Total Zinc	1	2.9	ug/L	20070822.R13F
Total Zirconium	1	1	ug/L	20070822.R13F

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	110	mg/L	20070824.R27A

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	14	mg/L	20070823.R55.2B

TP Water				
Parameter	MDL	Result	Units	QAQCID
Total Phosphorus (as P)	0.002	0.067	mg/L	20070828.R23.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20070824.R27B

Sample Name: L4-S

Date: 8/17/2007

Matrix: Water

Lab #: 135457

Alk by FIA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	50	mg/L	20070823.R69A

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.015	mg/L	20070823.R42D

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.33	mg/L	20070822.R5B
Fluoride	0.1	<0.1	mg/L	20070822.R5B
Nitrate (as N)	0.1	<0.1	mg/L	20070822.R5B
Nitrite (as N)	0.03	<0.03	mg/L	20070822.R5B
Sulfate	1	1.1	mg/L	20070822.R5B

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	10	mg/L	20070824.R55.1A

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.05	14.9	mg/L	20070822.R13H
Magnesium	0.004	2.67	mg/L	20070822.R13H

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Work Order: 40367

Sample Name: L4-S

Date: 8/17/2007

Matrix: Water

Lab #: 135457

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Total Hardness (as CaCO ₃)	0.1	48.2	mg/L	20070822.R13H

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	16.9	ug/L	20070822.R13D
Dissolved Antimony	0.5	<0.5	ug/L	20070822.R13D
Dissolved Arsenic	1	<1	ug/L	20070822.R13D
Dissolved Barium	1	5.3	ug/L	20070822.R13D
Dissolved Beryllium	0.5	<0.5	ug/L	20070822.R13D
Dissolved Bismuth	1	<1	ug/L	20070822.R13D
Dissolved Boron	2	2.4	ug/L	20070822.R13D
Dissolved Cadmium	0.1	<0.1	ug/L	20070822.R13D
Dissolved Calcium	50	13400	ug/L	20070822.R13D
Dissolved Cerium	1	<1	ug/L	20070822.R13D
Dissolved Cesium	1	<1	ug/L	20070822.R13D
Dissolved Chromium	1	<1	ug/L	20070822.R13D
Dissolved Cobalt	0.1	<0.1	ug/L	20070822.R13D
Dissolved Copper	1	<1	ug/L	20070822.R13D
Dissolved Europium	1	<1	ug/L	20070822.R13D
Dissolved Gallium	1	<1	ug/L	20070822.R13D
Dissolved Iron	20	40	ug/L	20070822.R13D
Dissolved Lanthanum	1	<1	ug/L	20070822.R13D
Dissolved Lead	1	<1	ug/L	20070822.R13D
Dissolved Lithium	5	<5	ug/L	20070822.R13D
Dissolved Magnesium	4	2070	ug/L	20070822.R13D
Dissolved Manganese	1	<1	ug/L	20070822.R13D
Dissolved Mercury	0.1	<0.1	ug/L	20070822.R13D
Dissolved Molybdenum	1	<1	ug/L	20070822.R13D
Dissolved Nickel	1	1.2	ug/L	20070822.R13D
Dissolved Niobium	1	<1	ug/L	20070822.R13D
Dissolved Rubidium	1	1.2	ug/L	20070822.R13D
Dissolved Scandium	1	<1	ug/L	20070822.R13D
Dissolved Selenium	1	<1	ug/L	20070822.R13D
Dissolved Silver	0.1	<0.1	ug/L	20070822.R13D
Dissolved Strontium	1	12.7	ug/L	20070822.R13D
Dissolved Thallium	0.1	<0.1	ug/L	20070822.R13D
Dissolved Thorium	1	<1	ug/L	20070822.R13D
Dissolved Tin	1	<1	ug/L	20070822.R13D
Dissolved Titanium	1	<1	ug/L	20070822.R13D
Dissolved Tungsten	1	<1	ug/L	20070822.R13D
Dissolved Uranium	1	<1	ug/L	20070822.R13D
Dissolved Vanadium	1	<1	ug/L	20070822.R13D
Dissolved Yttrium	1	<1	ug/L	20070822.R13D
Dissolved Zinc	1	1.8	ug/L	20070822.R13D
Dissolved Zirconium	1	<1	ug/L	20070822.R13D



TESTMARK Laboratories Ltd.

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Golder Associates Ltd.- Sudbury

Work Order: 40367

Sample Name: L4-S

Date: 8/17/2007

Matrix: Water

Lab #: 135457

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	82.6	ug/L	20070822.R13F
Total Antimony	0.5	<0.5	ug/L	20070822.R13F
Total Arsenic	1	<1	ug/L	20070822.R13F
Total Barium	1	5.8	ug/L	20070822.R13F
Total Beryllium	0.5	<0.5	ug/L	20070822.R13F
Total Bismuth	1	<1	ug/L	20070822.R13F
Total Boron	2	4.7	ug/L	20070822.R13F
Total Cadmium	0.1	<0.1	ug/L	20070822.R13F
Total Calcium	500	15200	ug/L	20070822.R13F
Total Cerium	1	<1	ug/L	20070822.R13F
Total Cesium	1	<1	ug/L	20070822.R13F
Total Chromium	1	1.3	ug/L	20070822.R13F
Total Cobalt	0.1	<0.1	ug/L	20070822.R13F
Total Copper	1	1	ug/L	20070822.R13F
Total Europium	1	<1	ug/L	20070822.R13F
Total Gallium	1	<1	ug/L	20070822.R13F
Total Iron	20	130	ug/L	20070822.R13F
Total Lanthanum	1	<1	ug/L	20070822.R13F
Total Lead	1	<1	ug/L	20070822.R13F
Total Lithium	5	<5	ug/L	20070822.R13F
Total Magnesium	4	3840	ug/L	20070822.R13F
Total Manganese	1	25.3	ug/L	20070822.R13F
Total Mercury	0.1	<0.1	ug/L	20070822.R13F
Total Molybdenum	1	<1	ug/L	20070822.R13F
Total Nickel	1	1.6	ug/L	20070822.R13F
Total Niobium	1	<1	ug/L	20070822.R13F
Total Rubidium	1	1.4	ug/L	20070822.R13F
Total Scandium	1	1.7	ug/L	20070822.R13F
Total Selenium	1	<1	ug/L	20070822.R13F
Total Silver	0.1	<0.1	ug/L	20070822.R13F
Total Strontium	1	14.4	ug/L	20070822.R13F
Total Thallium	0.1	<0.1	ug/L	20070822.R13F
Total Thorium	1	<1	ug/L	20070822.R13F
Total Tin	1	<1	ug/L	20070822.R13F
Total Titanium	1	2.2	ug/L	20070822.R13F
Total Tungsten	1	<1	ug/L	20070822.R13F
Total Uranium	1	<1	ug/L	20070822.R13F
Total Vanadium	1	<1	ug/L	20070822.R13F
Total Yttrium	1	<1	ug/L	20070822.R13F
Total Zinc	1	2	ug/L	20070822.R13F
Total Zirconium	1	1	ug/L	20070822.R13F

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	87	mg/L	20070824.R27A



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Committed to Quality and Service

Golder Associates Ltd.- Sudbury

Work Order: 40367

Sample Name: L4-S

Date: 8/17/2007

Matrix: Water

Lab #: 135457

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	12	mg/L	20070823.R55.2B

TP Water				
Parameter	MDL	Result	Units	QAQCID
Total Phosphorus (as P)	0.002	0.075	mg/L	20070828.R23.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20070824.R27B

Sample Name: L4-M

Date: 8/17/2007

Matrix: Water

Lab #: 135458

Alk by FIA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	56	mg/L	20070823.R69A

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.028	mg/L	20070823.R42D

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.28	mg/L	20070822.R5B
Fluoride	0.1	<0.1	mg/L	20070822.R5B
Nitrate (as N)	0.1	<0.1	mg/L	20070822.R5B
Nitrite (as N)	0.03	<0.03	mg/L	20070822.R5B
Sulfate	1	1.2	mg/L	20070822.R5B

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	10	mg/L	20070824.R55.1A
Dissolved Organic Carbon (Dup)	0.4	11	mg/L	20070824.R55.1A

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.05	14.6	mg/L	20070822.R13H
Magnesium	0.004	2.66	mg/L	20070822.R13H
Total Hardness (as CaCO ₃)	0.1	47.5	mg/L	20070822.R13H

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	16	ug/L	20070822.R13D
Dissolved Antimony	0.5	<0.5	ug/L	20070822.R13D
Dissolved Arsenic	1	<1	ug/L	20070822.R13D
Dissolved Barium	1	4.6	ug/L	20070822.R13D
Dissolved Beryllium	0.5	<0.5	ug/L	20070822.R13D
Dissolved Bismuth	1	<1	ug/L	20070822.R13D
Dissolved Boron	2	2.4	ug/L	20070822.R13D
Dissolved Cadmium	0.1	<0.1	ug/L	20070822.R13D
Dissolved Calcium	50	13500	ug/L	20070822.R13D

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9/5/2007

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TESTMARK Laboratories Ltd.

Committed to Quality and Service

Golder Associates Ltd. - Sudbury

Work Order: 40367

Sample Name: L4-M

Date: 8/17/2007

Matrix: Water

Lab #: 135458

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Cerium	1	<1	ug/L	20070822.R13D
Dissolved Cesium	1	<1	ug/L	20070822.R13D
Dissolved Chromium	1	<1	ug/L	20070822.R13D
Dissolved Cobalt	0.1	<0.1	ug/L	20070822.R13D
Dissolved Copper	1	<1	ug/L	20070822.R13D
Dissolved Europium	1	<1	ug/L	20070822.R13D
Dissolved Gallium	1	<1	ug/L	20070822.R13D
Dissolved Iron	20	38	ug/L	20070822.R13D
Dissolved Lanthanum	1	<1	ug/L	20070822.R13D
Dissolved Lead	1	<1	ug/L	20070822.R13D
Dissolved Lithium	5	<5	ug/L	20070822.R13D
Dissolved Magnesium	4	2090	ug/L	20070822.R13D
Dissolved Manganese	1	<1	ug/L	20070822.R13D
Dissolved Mercury	0.1	<0.1	ug/L	20070822.R13D
Dissolved Molybdenum	1	<1	ug/L	20070822.R13D
Dissolved Nickel	1	1.3	ug/L	20070822.R13D
Dissolved Niobium	1	<1	ug/L	20070822.R13D
Dissolved Rubidium	1	1.3	ug/L	20070822.R13D
Dissolved Scandium	1	<1	ug/L	20070822.R13D
Dissolved Selenium	1	<1	ug/L	20070822.R13D
Dissolved Silver	0.1	<0.1	ug/L	20070822.R13D
Dissolved Strontium	1	14.6	ug/L	20070822.R13D
Dissolved Thallium	0.1	<0.1	ug/L	20070822.R13D
Dissolved Thorium	1	<1	ug/L	20070822.R13D
Dissolved Tin	1	<1	ug/L	20070822.R13D
Dissolved Titanium	1	<1	ug/L	20070822.R13D
Dissolved Tungsten	1	<1	ug/L	20070822.R13D
Dissolved Uranium	1	<1	ug/L	20070822.R13D
Dissolved Vanadium	1	<1	ug/L	20070822.R13D
Dissolved Yttrium	1	<1	ug/L	20070822.R13D
Dissolved Zinc	1	<1	ug/L	20070822.R13D
Dissolved Zirconium	1	<1	ug/L	20070822.R13D

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	53	ug/L	20070822.R13F
Total Antimony	0.5	<0.5	ug/L	20070822.R13F
Total Arsenic	1	<1	ug/L	20070822.R13F
Total Barium	1	5.4	ug/L	20070822.R13F
Total Beryllium	0.5	<0.5	ug/L	20070822.R13F
Total Bismuth	1	<1	ug/L	20070822.R13F
Total Boron	2	4.7	ug/L	20070822.R13F
Total Cadmium	0.1	<0.1	ug/L	20070822.R13F
Total Calcium	500	15000	ug/L	20070822.R13F
Total Cerium	1	<1	ug/L	20070822.R13F
Total Cesium	1	<1	ug/L	20070822.R13F

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TESTMARK Laboratories Ltd.

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Golder Associates Ltd.- Sudbury

Work Order: 40367

Sample Name: L4-M

Date: 8/17/2007

Matrix: Water

Lab #: 135458

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Chromium	1	<1	ug/L	20070822.R13F
Total Cobalt	0.1	0.79	ug/L	20070822.R13F
Total Copper	1	<1	ug/L	20070822.R13F
Total Europium	1	<1	ug/L	20070822.R13F
Total Gallium	1	<1	ug/L	20070822.R13F
Total Iron	20	96	ug/L	20070822.R13F
Total Lanthanum	1	<1	ug/L	20070822.R13F
Total Lead	1	<1	ug/L	20070822.R13F
Total Lithium	5	<5	ug/L	20070822.R13F
Total Magnesium	4	3950	ug/L	20070822.R13F
Total Manganese	1	22.3	ug/L	20070822.R13F
Total Mercury	0.1	<0.1	ug/L	20070822.R13F
Total Molybdenum	1	<1	ug/L	20070822.R13F
Total Nickel	1	1.4	ug/L	20070822.R13F
Total Niobium	1	<1	ug/L	20070822.R13F
Total Rubidium	1	1.3	ug/L	20070822.R13F
Total Scandium	1	1.7	ug/L	20070822.R13F
Total Selenium	1	<1	ug/L	20070822.R13F
Total Silver	0.1	<0.1	ug/L	20070822.R13F
Total Strontium	1	15	ug/L	20070822.R13F
Total Thallium	0.1	<0.1	ug/L	20070822.R13F
Total Thorium	1	<1	ug/L	20070822.R13F
Total Tin	1	<1	ug/L	20070822.R13F
Total Titanium	1	1.3	ug/L	20070822.R13F
Total Tungsten	1	<1	ug/L	20070822.R13F
Total Uranium	1	<1	ug/L	20070822.R13F
Total Vanadium	1	<1	ug/L	20070822.R13F
Total Yttrium	1	<1	ug/L	20070822.R13F
Total Zinc	1	1.2	ug/L	20070822.R13F
Total Zirconium	1	1.4	ug/L	20070822.R13F

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	89	mg/L	20070824.R27A

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	13	mg/L	20070823.R55.2B

TP Water				
Parameter	MDL	Result	Units	QAQCID
Total Phosphorus (as P)	0.002	0.132	mg/L	20070828.R23.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20070824.R27B



TESTMARK Laboratories Ltd.

Committed to Quality and Service

Golder Associates Ltd.- Sudbury

Work Order: 40367

Sample Name: L4-B

Date: 8/17/2007

Matrix: Water

Lab #: 135459

Alk by FIA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	48	mg/L	20070823.R69A

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.073	mg/L	20070823.R42D

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.25	mg/L	20070822.R5B
Fluoride	0.1	<0.1	mg/L	20070822.R5B
Nitrate (as N)	0.1	<0.1	mg/L	20070822.R5B
Nitrite (as N)	0.03	<0.03	mg/L	20070822.R5B
Sulfate	1	1	mg/L	20070822.R5B

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	14	mg/L	20070824.R55.1A

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.05	14.4	mg/L	20070822.R13H
Calcium (Dup)	0.05	14.7	mg/L	20070822.R13H
Magnesium	0.004	2.66	mg/L	20070822.R13H
Magnesium (Dup)	0.004	2.68	mg/L	20070822.R13H
Total Hardness (as CaCO ₃)	0.1	46.9	mg/L	20070822.R13H
Total Hardness (as CaCO ₃) (Dup)	0.1	47.8	mg/L	20070822.R13H

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	16.4	ug/L	20070822.R13D
Dissolved Antimony	0.5	<0.5	ug/L	20070822.R13D
Dissolved Arsenic	1	<1	ug/L	20070822.R13D
Dissolved Barium	1	5.5	ug/L	20070822.R13D
Dissolved Beryllium	0.5	<0.5	ug/L	20070822.R13D
Dissolved Bismuth	1	<1	ug/L	20070822.R13D
Dissolved Boron	2	3.2	ug/L	20070822.R13D
Dissolved Cadmium	0.1	<0.1	ug/L	20070822.R13D
Dissolved Calcium	50	13300	ug/L	20070822.R13D
Dissolved Cerium	1	<1	ug/L	20070822.R13D
Dissolved Cesium	1	<1	ug/L	20070822.R13D
Dissolved Chromium	1	<1	ug/L	20070822.R13D
Dissolved Cobalt	0.1	<0.1	ug/L	20070822.R13D
Dissolved Copper	1	1.1	ug/L	20070822.R13D
Dissolved Europium	1	<1	ug/L	20070822.R13D
Dissolved Gallium	1	<1	ug/L	20070822.R13D
Dissolved Iron	20	38	ug/L	20070822.R13D
Dissolved Lanthanum	1	<1	ug/L	20070822.R13D
Dissolved Lead	1	<1	ug/L	20070822.R13D



TESTMARK Laboratories Ltd.

Committed to Quality and Service

Golder Associates Ltd. - Sudbury

Work Order: 40367

Sample Name: L4-B

Date: 8/17/2007

Matrix: Water

Lab #: 135459

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Lithium	5	<5	ug/L	20070822.R13D
Dissolved Magnesium	4	2070	ug/L	20070822.R13D
Dissolved Manganese	1	<1	ug/L	20070822.R13D
Dissolved Mercury	0.1	<0.1	ug/L	20070822.R13D
Dissolved Molybdenum	1	<1	ug/L	20070822.R13D
Dissolved Nickel	1	<1	ug/L	20070822.R13D
Dissolved Niobium	1	<1	ug/L	20070822.R13D
Dissolved Rubidium	1	1.3	ug/L	20070822.R13D
Dissolved Scandium	1	<1	ug/L	20070822.R13D
Dissolved Selenium	1	<1	ug/L	20070822.R13D
Dissolved Silver	0.1	<0.1	ug/L	20070822.R13D
Dissolved Strontium	1	14.6	ug/L	20070822.R13D
Dissolved Thallium	0.1	<0.1	ug/L	20070822.R13D
Dissolved Thorium	1	<1	ug/L	20070822.R13D
Dissolved Tin	1	<1	ug/L	20070822.R13D
Dissolved Titanium	1	<1	ug/L	20070822.R13D
Dissolved Tungsten	1	<1	ug/L	20070822.R13D
Dissolved Uranium	1	<1	ug/L	20070822.R13D
Dissolved Vanadium	1	<1	ug/L	20070822.R13D
Dissolved Yttrium	1	<1	ug/L	20070822.R13D
Dissolved Zinc	1	1.1	ug/L	20070822.R13D
Dissolved Zirconium	1	<1	ug/L	20070822.R13D

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	70	ug/L	20070822.R13F
Total Antimony	0.5	<0.5	ug/L	20070822.R13F
Total Arsenic	1	<1	ug/L	20070822.R13F
Total Barium	1	5.6	ug/L	20070822.R13F
Total Beryllium	0.5	<0.5	ug/L	20070822.R13F
Total Bismuth	1	<1	ug/L	20070822.R13F
Total Boron	2	4.6	ug/L	20070822.R13F
Total Cadmium	0.1	<0.1	ug/L	20070822.R13F
Total Calcium	500	14900	ug/L	20070822.R13F
Total Cerium	1	<1	ug/L	20070822.R13F
Total Cesium	1	<1	ug/L	20070822.R13F
Total Chromium	1	<1	ug/L	20070822.R13F
Total Cobalt	0.1	<0.1	ug/L	20070822.R13F
Total Copper	1	1.4	ug/L	20070822.R13F
Total Europium	1	<1	ug/L	20070822.R13F
Total Gallium	1	<1	ug/L	20070822.R13F
Total Iron	20	130	ug/L	20070822.R13F
Total Lanthanum	1	<1	ug/L	20070822.R13F
Total Lead	1	<1	ug/L	20070822.R13F
Total Lithium	5	<5	ug/L	20070822.R13F
Total Magnesium	4	3940	ug/L	20070822.R13F



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Golder Associates Ltd.- Sudbury

Work Order: 40367

Sample Name: L4-B

Date: 8/17/2007

Matrix: Water

Lab #: 135459

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Manganese	1	25.1	ug/L	20070822.R13F
Total Mercury	0.1	<0.1	ug/L	20070822.R13F
Total Molybdenum	1	<1	ug/L	20070822.R13F
Total Nickel	1	1.5	ug/L	20070822.R13F
Total Niobium	1	<1	ug/L	20070822.R13F
Total Rubidium	1	1.4	ug/L	20070822.R13F
Total Scandium	1	1.8	ug/L	20070822.R13F
Total Selenium	1	<1	ug/L	20070822.R13F
Total Silver	0.1	<0.1	ug/L	20070822.R13F
Total Strontium	1	14.9	ug/L	20070822.R13F
Total Thallium	0.1	<0.1	ug/L	20070822.R13F
Total Thorium	1	<1	ug/L	20070822.R13F
Total Tin	1	<1	ug/L	20070822.R13F
Total Titanium	1	2.3	ug/L	20070822.R13F
Total Tungsten	1	<1	ug/L	20070822.R13F
Total Uranium	1	<1	ug/L	20070822.R13F
Total Vanadium	1	<1	ug/L	20070822.R13F
Total Yttrium	1	<1	ug/L	20070822.R13F
Total Zinc	1	1.7	ug/L	20070822.R13F
Total Zirconium	1	<1	ug/L	20070822.R13F

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	68	mg/L	20070824.R27A

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	16.3	mg/L	20070904.R55.2A
Total Organic Carbon (Dup)	0.4	16.5	mg/L	20070904.R55.2A

TP Water				
Parameter	MDL	Result	Units	QAQCID
Total Phosphorus (as P)	0.002	0.03	mg/L	20070828.R23.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20070824.R27B

Sample Name: WELL

Date: 8/17/2007

Matrix: Water

Lab #: 135460

Alk by FIA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	246	mg/L	20070823.R69A

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.029	mg/L	20070823.R42D



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Work Order: 40367

Sample Name: WELL

Date: 8/17/2007

Matrix: Water

Lab #: 135460

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	4.15	mg/L	20070822.R5B
Fluoride	0.1	<0.1	mg/L	20070822.R5B
Nitrate (as N)	0.1	1.27	mg/L	20070822.R5B
Nitrite (as N)	0.03	0.061	mg/L	20070822.R5B
Sulfate	1	5.7	mg/L	20070822.R5B

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	6	mg/L	20070824.R55.1A

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.5	69.2	mg/L	20070822.R13H
Magnesium	0.004	8.64	mg/L	20070822.R13H
Total Hardness (as CaCO ₃)	0.1	208	mg/L	20070822.R13H

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	3	ug/L	20070822.R13D
Dissolved Antimony	0.5	<0.5	ug/L	20070822.R13D
Dissolved Arsenic	1	3.2	ug/L	20070822.R13D
Dissolved Barium	1	9.9	ug/L	20070822.R13D
Dissolved Beryllium	0.5	<0.5	ug/L	20070822.R13D
Dissolved Bismuth	1	<1	ug/L	20070822.R13D
Dissolved Boron	2	7.6	ug/L	20070822.R13D
Dissolved Cadmium	0.1	<0.1	ug/L	20070822.R13D
Dissolved Calcium	50	66500	ug/L	20070822.R13D
Dissolved Cerium	1	<1	ug/L	20070822.R13D
Dissolved Cesium	1	<1	ug/L	20070822.R13D
Dissolved Chromium	1	1.1	ug/L	20070822.R13D
Dissolved Cobalt	0.1	0.51	ug/L	20070822.R13D
Dissolved Copper	1	7.8	ug/L	20070822.R13D
Dissolved Europium	1	<1	ug/L	20070822.R13D
Dissolved Gallium	1	<1	ug/L	20070822.R13D
Dissolved Iron	20	<20	ug/L	20070822.R13D
Dissolved Lanthanum	1	<1	ug/L	20070822.R13D
Dissolved Lead	1	<1	ug/L	20070822.R13D
Dissolved Lithium	5	<5	ug/L	20070822.R13D
Dissolved Magnesium	4	8380	ug/L	20070822.R13D
Dissolved Manganese	1	2	ug/L	20070822.R13D
Dissolved Mercury	0.1	<0.1	ug/L	20070822.R13D
Dissolved Molybdenum	1	<1	ug/L	20070822.R13D
Dissolved Nickel	1	2.7	ug/L	20070822.R13D
Dissolved Niobium	1	<1	ug/L	20070822.R13D
Dissolved Rubidium	1	1.3	ug/L	20070822.R13D
Dissolved Scandium	1	1.1	ug/L	20070822.R13D
Dissolved Selenium	1	<1	ug/L	20070822.R13D

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Work Order: 40367

Sample Name: WELL

Date: 8/17/2007

Matrix: Water

Lab #: 135460

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Silver	0.1	<0.1	ug/L	20070822.R13D
Dissolved Strontium	1	46.4	ug/L	20070822.R13D
Dissolved Thallium	0.1	<0.1	ug/L	20070822.R13D
Dissolved Thorium	1	<1	ug/L	20070822.R13D
Dissolved Tin	1	<1	ug/L	20070822.R13D
Dissolved Titanium	1	<1	ug/L	20070822.R13D
Dissolved Tungsten	1	<1	ug/L	20070822.R13D
Dissolved Uranium	1	<1	ug/L	20070822.R13D
Dissolved Vanadium	1	1.1	ug/L	20070822.R13D
Dissolved Yttrium	1	<1	ug/L	20070822.R13D
Dissolved Zinc	1	18.7	ug/L	20070822.R13D
Dissolved Zirconium	1	<1	ug/L	20070822.R13D

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	6.7	ug/L	20070822.R13F
Total Antimony	0.5	<0.5	ug/L	20070822.R13F
Total Arsenic	1	4	ug/L	20070822.R13F
Total Barium	1	11.6	ug/L	20070822.R13F
Total Beryllium	0.5	<0.5	ug/L	20070822.R13F
Total Bismuth	1	<1	ug/L	20070822.R13F
Total Boron	2	9	ug/L	20070822.R13F
Total Cadmium	0.1	<0.1	ug/L	20070822.R13F
Total Calcium	500	81300	ug/L	20070822.R13F
Total Cerium	1	<1	ug/L	20070822.R13F
Total Cesium	1	<1	ug/L	20070822.R13F
Total Chromium	1	1.7	ug/L	20070822.R13F
Total Cobalt	0.1	0.63	ug/L	20070822.R13F
Total Copper	1	8.3	ug/L	20070822.R13F
Total Europium	1	<1	ug/L	20070822.R13F
Total Gallium	1	<1	ug/L	20070822.R13F
Total Iron	20	<20	ug/L	20070822.R13F
Total Lanthanum	1	<1	ug/L	20070822.R13F
Total Lead	1	<1	ug/L	20070822.R13F
Total Lithium	5	<5	ug/L	20070822.R13F
Total Magnesium	40	9170	ug/L	20070822.R13F
Total Manganese	1	2.8	ug/L	20070822.R13F
Total Mercury	0.1	<0.1	ug/L	20070822.R13F
Total Molybdenum	1	<1	ug/L	20070822.R13F
Total Nickel	1	4.4	ug/L	20070822.R13F
Total Niobium	1	<1	ug/L	20070822.R13F
Total Rubidium	1	1.5	ug/L	20070822.R13F
Total Scandium	1	1.6	ug/L	20070822.R13F
Total Selenium	1	<1	ug/L	20070822.R13F
Total Silver	0.1	<0.1	ug/L	20070822.R13F
Total Strontium	1	56.1	ug/L	20070822.R13F

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Work Order: 40367

Sample Name: WELL

Date: 8/17/2007

Matrix: Water

Lab #: 135460

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Thallium	0.1	<0.1	ug/L	20070822.R13F
Total Thorium	1	<1	ug/L	20070822.R13F
Total Tin	1	<1	ug/L	20070822.R13F
Total Titanium	1	1.7	ug/L	20070822.R13F
Total Tungsten	1	<1	ug/L	20070822.R13F
Total Uranium	1	<1	ug/L	20070822.R13F
Total Vanadium	1	1.1	ug/L	20070822.R13F
Total Yttrium	1	<1	ug/L	20070822.R13F
Total Zinc	1	20.6	ug/L	20070822.R13F
Total Zirconium	1	<1	ug/L	20070822.R13F

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	261	mg/L	20070824.R27A

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	6	mg/L	20070823.R55.2B

TP Water				
Parameter	MDL	Result	Units	QAQCID
Total Phosphorus (as P)	0.002	0.066	mg/L	20070828.R23.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20070824.R27B



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MDL *Method detection limit or minimum reporting limit.*

% Rec *Surrogate compounds are added to the sample in some cases and the recovery is reported as a percent recovered.*

QAQCID *This is a unique reference to the quality control data set used to generate the reported value.*

Data reported for organic analysis in soil samples are corrected for moisture content

Matrix *If the matrix is a leachate, the sample was extracted according to regulation 558.*

INT *Interferences*

TNTC *Too numerous to count*

ND *Not detected*



Quality Control Data:

Alk by FIA

200 mg/L Check Std.						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	mg/L	220	206	180	20070823.R69A

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	10	mg/L	10	<10	<10	20070823.R69A

AmmoniaFIA

500 ppb HN ₃						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Ammonia (as N)	0.002	mg/L	0.6	0.532	0.4	20070823.R42D

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Ammonia (as N)	0.002	mg/L	0.02	<0.002	<0.002	20070823.R42D

Anions Water

Blank (IC-2)						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Chloride	0.2	mg/L	0.5	<0.2	<0.2	20070822.R5B
Fluoride	0.1	mg/L	0.5	<0.1	<0.1	20070822.R5B
Nitrate (as N)	0.1	mg/L	0.5	<0.1	<0.1	20070822.R5B
Nitrite (as N)	0.03	mg/L	0.5	<0.03	<0.03	20070822.R5B
Sulfate	1	mg/L	1	<1	<1	20070822.R5B

Control (IC-2)						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Chloride	0.2	mg/L	100	90.7	80	20070822.R5B
Fluoride	0.1	mg/L	55	52.4	45	20070822.R5B
Nitrate (as N)	0.1	mg/L	55	44.8	40	20070822.R5B
Nitrite (as N)	0.03	mg/L	62	54.5	47	20070822.R5B
Sulfate	1	mg/L	100	85.3	78	20070822.R5B

DOC Water

20 ppm Blank Spike						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Organic Carbon	0.4	mg/L	22	19	18	20070824.R55.1A
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Organic Carbon	0.4	mg/L	22	21.6	18	20070904.R55.1A

Method Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Organic Carbon	0.4	mg/L	0.4	<0.4	<0.4	20070824.R55.1A



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DOC Water

Method Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Organic Carbon	0.4	mg/L	0.4	<0.4	<0.4	20070904.R55.1A

ICPMS Dis. Water

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Aluminum	1	ug/L	1	<1	<1	20070822.R13D
Dissolved Antimony	1	ug/L	1	<1	<1	20070822.R13D
Dissolved Arsenic	1	ug/L	1	<1	<1	20070822.R13D
Dissolved Barium	1	ug/L	1	<1	<1	20070822.R13D
Dissolved Beryllium	1	ug/L	1	<1	<1	20070822.R13D
Dissolved Bismuth	1	ug/L	1	<1	<1	20070822.R13D
Dissolved Boron	2	ug/L	2	<2	<2	20070822.R13D
Dissolved Cadmium	1	ug/L	1	<1	<1	20070822.R13D
Dissolved Calcium	50	ug/L	50	<50	<50	20070822.R13D
Dissolved Cerium	1	ug/L	1	<1	<1	20070822.R13D
Dissolved Cesium	1	ug/L	1	<1	<1	20070822.R13D
Dissolved Chromium	1	ug/L	1	<1	<1	20070822.R13D
Dissolved Cobalt	1	ug/L	1	<1	<1	20070822.R13D
Dissolved Copper	1	ug/L	1	<1	<1	20070822.R13D
Dissolved Europium	1	ug/L	1	<1	<1	20070822.R13D
Dissolved Gallium	1	ug/L	1	<1	<1	20070822.R13D
Dissolved Iron	20	ug/L	20	<20	<20	20070822.R13D
Dissolved Lanthanum	1	ug/L	1	<1	<1	20070822.R13D
Dissolved Lead	1	ug/L	1	<1	<1	20070822.R13D
Dissolved Lithium	5	ug/L	5	<5	<5	20070822.R13D
Dissolved Magnesium	4	ug/L	4	<4	<4	20070822.R13D
Dissolved Manganese	1	ug/L	1	<1	<1	20070822.R13D
Dissolved Mercury	0.1	ug/L	0.1	<0.1	<0.1	20070822.R13D
Dissolved Molybdenum	1	ug/L	1	<1	<1	20070822.R13D
Dissolved Nickel	1	ug/L	1	<1	<1	20070822.R13D
Dissolved Niobium	1	ug/L	1	<1	<1	20070822.R13D
Dissolved Rubidium	1	ug/L	1	<1	<1	20070822.R13D
Dissolved Scandium	1	ug/L	1	<1	<1	20070822.R13D
Dissolved Selenium	1	ug/L	1	<1	<1	20070822.R13D
Dissolved Silver	5	ug/L	5	<5	<5	20070822.R13D
Dissolved Strontium	1	ug/L	1	<1	<1	20070822.R13D
Dissolved Thallium	1	ug/L	1	<1	<1	20070822.R13D
Dissolved Thorium	1	ug/L	1	<1	<1	20070822.R13D
Dissolved Tin	1	ug/L	1	<1	<1	20070822.R13D
Dissolved Titanium	1	ug/L	1	<1	<1	20070822.R13D
Dissolved Tungsten	1	ug/L	1	<1	<1	20070822.R13D
Dissolved Uranium	1	ug/L	1	<1	<1	20070822.R13D
Dissolved Vanadium	1	ug/L	1	<1	<1	20070822.R13D
Dissolved Yttrium	1	ug/L	1	<1	<1	20070822.R13D
Dissolved Zinc	1	ug/L	1	<1	<1	20070822.R13D

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ICPMS Dis. Water

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Zirconium	1	ug/L	1	<1	<1	20070822.R13D

Blank Spike (1011)						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Aluminum	1	ug/L	600	467	400	20070822.R13D
Dissolved Arsenic	1	ug/L	120	92.3	80	20070822.R13D
Dissolved Barium	1	ug/L	120	95.3	80	20070822.R13D
Dissolved Beryllium	1	ug/L	125	84.5	75	20070822.R13D
Dissolved Boron	2	ug/L	125	86.1	75	20070822.R13D
Dissolved Cadmium	1	ug/L	120	108	80	20070822.R13D
Dissolved Calcium	50	ug/L	1200	904	800	20070822.R13D
Dissolved Chromium	1	ug/L	120	83.6	80	20070822.R13D
Dissolved Cobalt	1	ug/L	120	86.3	80	20070822.R13D
Dissolved Copper	1	ug/L	120	86.4	80	20070822.R13D
Dissolved Iron	20	ug/L	600	468	400	20070822.R13D
Dissolved Lead	1	ug/L	120	98	80	20070822.R13D
Dissolved Magnesium	4	ug/L	1200	953	800	20070822.R13D
Dissolved Manganese	1	ug/L	120	83.3	80	20070822.R13D
Dissolved Molybdenum	1	ug/L	120	102	80	20070822.R13D
Dissolved Nickel	1	ug/L	120	87.3	80	20070822.R13D
Dissolved Selenium	1	ug/L	120	90.9	80	20070822.R13D
Dissolved Thallium	1	ug/L	120	99.5	80	20070822.R13D
Dissolved Vanadium	1	ug/L	120	82	80	20070822.R13D
Dissolved Zinc	1	ug/L	120	85.4	80	20070822.R13D

ICPMS Tot. Water

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Aluminum	1	ug/L	1	<1	<1	20070822.R13F
Total Antimony	1	ug/L	1	<1	<1	20070822.R13F
Total Arsenic	1	ug/L	1	<1	<1	20070822.R13F
Total Barium	1	ug/L	1	<1	<1	20070822.R13F
Total Beryllium	1	ug/L	1	<1	<1	20070822.R13F
Total Bismuth	1	ug/L	1	<1	<1	20070822.R13F
Total Boron	2	ug/L	2	<2	<2	20070822.R13F
Total Cadmium	1	ug/L	1	<1	<1	20070822.R13F
Total Cerium	1	ug/L	1	<1	<1	20070822.R13F
Total Cesium	1	ug/L	1	<1	<1	20070822.R13F
Total Chromium	1	ug/L	1	<1	<1	20070822.R13F
Total Cobalt	1	ug/L	1	<1	<1	20070822.R13F
Total Copper	1	ug/L	1	<1	<1	20070822.R13F
Total Europium	1	ug/L	1	<1	<1	20070822.R13F
Total Gallium	1	ug/L	1	<1	<1	20070822.R13F
Total Iron	20	ug/L	20	<20	<20	20070822.R13F
Total Lanthanum	1	ug/L	1	<1	<1	20070822.R13F

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ICPMS Tot. Water

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Lead	1	ug/L	1	<1	<1	20070822.R13F
Total Lithium	5	ug/L	5	<5	<5	20070822.R13F
Total Magnesium	4	ug/L	4	<4	<4	20070822.R13F
Total Manganese	1	ug/L	1	<1	<1	20070822.R13F
Total Mercury	0.1	ug/L	0.1	<0.1	<0.1	20070822.R13F
Total Molybdenum	1	ug/L	1	<1	<1	20070822.R13F
Total Nickel	1	ug/L	1	<1	<1	20070822.R13F
Total Niobium	1	ug/L	1	<1	<1	20070822.R13F
Total Rubidium	1	ug/L	1	<1	<1	20070822.R13F
Total Selenium	1	ug/L	1	<1	<1	20070822.R13F
Total Silver	5	ug/L	5	<5	<5	20070822.R13F
Total Strontium	1	ug/L	1	<1	<1	20070822.R13F
Total Thallium	1	ug/L	1	<1	<1	20070822.R13F
Total Thorium	1	ug/L	1	<1	<1	20070822.R13F
Total Tin	1	ug/L	1	<1	<1	20070822.R13F
Total Tungsten	1	ug/L	1	<1	<1	20070822.R13F
Total Uranium	1	ug/L	1	<1	<1	20070822.R13F
Total Vanadium	1	ug/L	1	<1	<1	20070822.R13F
Total Yttrium	1	ug/L	1	<1	<1	20070822.R13F
Total Zinc	1	ug/L	1	<1	<1	20070822.R13F
Total Zirconium	1	ug/L	1	<1	<1	20070822.R13F

Blank Spike (1011)						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Aluminum	1	ug/L	600	573	400	20070822.R13F
Total Arsenic	1	ug/L	120	100	80	20070822.R13F
Total Barium	1	ug/L	120	85.6	80	20070822.R13F
Total Beryllium	1	ug/L	125	107	75	20070822.R13F
Total Boron	2	ug/L	125	93.6	75	20070822.R13F
Total Cadmium	1	ug/L	120	113	80	20070822.R13F
Total Calcium	50	ug/L	1200	817	800	20070822.R13F
Total Chromium	1	ug/L	120	87.6	80	20070822.R13F
Total Cobalt	1	ug/L	120	99.8	80	20070822.R13F
Total Copper	1	ug/L	120	97.6	80	20070822.R13F
Total Iron	20	ug/L	600	535	400	20070822.R13F
Total Lead	1	ug/L	120	91.1	80	20070822.R13F
Total Magnesium	4	ug/L	1200	1150	800	20070822.R13F
Total Manganese	1	ug/L	120	88.8	80	20070822.R13F
Total Molybdenum	1	ug/L	120	99.2	80	20070822.R13F
Total Nickel	1	ug/L	120	102	80	20070822.R13F
Total Selenium	1	ug/L	120	93.4	80	20070822.R13F
Total Thallium	1	ug/L	120	94.4	80	20070822.R13F
Total Vanadium	1	ug/L	120	86.2	80	20070822.R13F
Total Zinc	1	ug/L	120	97.6	80	20070822.R13F



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ICPMS Water

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Calcium	0.1	ug/L	0.1	<0.1	<0.1	20070822.R13H
Magnesium	4	ug/L	4	<4	<4	20070822.R13H

Blank Spike (1011)						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Calcium	50	ug/L	1200	1010	800	20070822.R13H
Magnesium	4	ug/L	1200	1060	800	20070822.R13H

TDS

200 mg/L Control						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Dissolved Solids	25	mg/L	240	180	160	20070824.R27A

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Dissolved Solids	25	mg/L	<25	<25	<25	20070824.R27A

TOC Water

20 ppm Blank Spike						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Organic Carbon	0.4	mg/L	22	19	18	20070823.R55.2B
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Organic Carbon	0.4	mg/L	22	21.8	18	20070904.R55.2A

Method Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Organic Carbon	0.4	mg/L	0.4	<0.4	<0.4	20070823.R55.2B
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Organic Carbon	0.4	mg/L	0.4	<0.4	<0.4	20070904.R55.2A

TP Water

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0.005	<0.002	<0.002	20070828.R23.2A

Control (0.05 mg/L)						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0.06	0.048	0.04	20070828.R23.2A

TSS

160 mg/L Control						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Suspended Solids	6	mg/L	192	165	128	20070824.R27B



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Work Order: 40367

TSS

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Suspended Solids	3	mg/L	<3	<3	<3	20070824.R27B

UCL Upper Control Limit

LCL Lower Control Limit



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Analytical Report

Client:	Jim Garber	Work Order Number:	45943
Company:	Landore Resources	Date Order Received:	11/26/07
Address:	555 Central Ave Thunder Bay, ON, P7B 5R5	Regulation:	PWQO
Phone:	(807) 623-3770	PO #:	
Fax:	(807) 623-2335	Project #:	Landore Resources
Email:	jgarber@landore.com		

Analyses were performed on the following samples submitted with your order.

The results relate only to the items tested.

Sample Name	Lab #	Matrix	Type	Comments	Date Collected	Time Collected
L2-S	150268	Water	Grab		11/21/07	
L2-M	150269	Water	Grab		11/21/07	
L2-B	150270	Water	Grab		11/21/07	
R2	150271	Water	Grab		11/21/07	
R3	150272	Water	Grab		11/21/07	



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Landore Resources

Work Order: 45943

The following instrumentation and references methods were used for your sample(s)

Method Name	Description	Reference
ALKA	Determination of Alkalinity Instrument group: Automater Analyzer	Mod. APHA-2320
AmmoniaFIA	Determination of Ammonia/Ammonium by Flow Analysis Instrument group: Skalar San++ FIA	Mod. APHA-4500
Anions Water	Determination of Anions by Ion Chromatography Instrument group: Dionex DX300 IC	Mod. SW846-9056
DOC Water	Determination of Dissolved Organic Carbon in Water Instrument group: Dohrman TOC Analyzer	Mod. APHA-5310
Hardness/ICP	Determination of Hardness in Water by ICP Instrument group: Perkin Elmer Elan 5000	Mod. SW846-6020
ICPMS Dis. Water	Determination of Dissolved Metals in Water by ICP/MS Instrument group: Perkin Elmer Elan 5000	Mod. SW846-6020
ICPMS Tot. Water	Determination of Total Metals in Water by ICP/MS with Digestion Instrument group: Perkin Elmer Elan 5000	Mod. SW846-6020
TDS	Determination of Total Dissolved Solids in water by gravimetry Instrument group: Mettler Analytical Balance	Mod. APHA-2540
TOC Water	Determination of Total Organic Carbon in Water Instrument group: Dohrman TOC Analyzer	Mod. APHA-5310
TP Water	Determination of Total Phosphorus by FIA/UV Digestion Instrument group: Skalar San++ FIA	Mod. APHA-4500
TSS	Determination of Total Suspended Solids in water by gravimetry Instrument group: Mettler Analytical Balance	Mod. APHA-2540

This report has been approved by:

Dr. Xiaojing Li
Chief Chemist

Ryan Lawrence, B.Sc.
Inorganic Section Head



TESTMARK Laboratories Ltd.

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Landore Resources

Work Order: 45943

Sample Data:

Sample Name: L2-S

Date: 11/21/07

Matrix: Water

Lab #: 150268

ALKA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	1.6	34	mg/L	20071128.R1F

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.049	mg/L	20071129.R42A

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.52	mg/L	20071129.R5C
Fluoride	0.1	<0.1	mg/L	20071129.R5C
Nitrate (as N)	0.1	<0.1	mg/L	20071129.R5C
Nitrite (as N)	0.03	<0.03	mg/L	20071129.R5C
Sulfate	1	<1	mg/L	20071129.R5C

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	11	mg/L	20071204.R55.1B

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.5	14.1	mg/L	20071129.R13J
Magnesium	0.04	3.15	mg/L	20071129.R13J
Total Hardness (as CaCO ₃)	0.1	48.2	mg/L	20071129.R13J

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	15.3	ug/L	20071210.R13B
Dissolved Antimony	0.5	<0.5	ug/L	20071210.R13B
Dissolved Arsenic	1	<1	ug/L	20071210.R13B
Dissolved Barium	1	4.3	ug/L	20071210.R13B
Dissolved Beryllium	0.5	<0.5	ug/L	20071210.R13B
Dissolved Bismuth	1	<1	ug/L	20071210.R13B
Dissolved Boron	2	<2	ug/L	20071210.R13B
Dissolved Cadmium	0.1	<0.1	ug/L	20071210.R13B
Dissolved Calcium	500	16300	ug/L	20071210.R13B
Dissolved Cerium	1	<1	ug/L	20071210.R13B
Dissolved Cesium	1	<1	ug/L	20071210.R13B
Dissolved Chromium	1	2.9	ug/L	20071210.R13B
Dissolved Cobalt	0.1	<0.1	ug/L	20071210.R13B
Dissolved Copper	1	<1	ug/L	20071210.R13B
Dissolved Europium	1	<1	ug/L	20071210.R13B
Dissolved Gallium	1	<1	ug/L	20071210.R13B
Dissolved Iron	20	<20	ug/L	20071210.R13B
Dissolved Lanthanum	1	<1	ug/L	20071210.R13B
Dissolved Lead	1	<1	ug/L	20071210.R13B
Dissolved Lithium	5	<5	ug/L	20071210.R13B
Dissolved Magnesium	4	3210	ug/L	20071210.R13B

7 Margaret Street, Garson Ontario Canada, P3L 1E1

12/10/07

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Landore Resources

Work Order: 45943

Sample Name: L2-S

Date: 11/21/07

Matrix: Water

Lab #: 150268

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Manganese	1	<1	ug/L	20071210.R13B
Dissolved Mercury	0.1	<0.1	ug/L	20071210.R13B
Dissolved Molybdenum	1	<1	ug/L	20071210.R13B
Dissolved Nickel	1	<1	ug/L	20071210.R13B
Dissolved Niobium	1	<1	ug/L	20071210.R13B
Dissolved Rubidium	1	1.2	ug/L	20071210.R13B
Dissolved Scandium	1	3.7	ug/L	20071210.R13B
Dissolved Selenium	1	<1	ug/L	20071210.R13B
Dissolved Silver	0.1	<0.1	ug/L	20071210.R13B
Dissolved Strontium	1	15.4	ug/L	20071210.R13B
Dissolved Thallium	0.1	<0.1	ug/L	20071210.R13B
Dissolved Thorium	1	<1	ug/L	20071210.R13B
Dissolved Tin	1	<1	ug/L	20071210.R13B
Dissolved Titanium	1	<1	ug/L	20071210.R13B
Dissolved Tungsten	1	<1	ug/L	20071210.R13B
Dissolved Uranium	1	<1	ug/L	20071210.R13B
Dissolved Vanadium	1	<1	ug/L	20071210.R13B
Dissolved Yttrium	1	<1	ug/L	20071210.R13B
Dissolved Zinc	1	2.1	ug/L	20071210.R13B
Dissolved Zirconium	1	<1	ug/L	20071210.R13B

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	26	ug/L	20071203.R13D
Total Antimony	0.5	<0.5	ug/L	20071203.R13D
Total Arsenic	1	<1	ug/L	20071203.R13D
Total Barium	1	5.9	ug/L	20071203.R13D
Total Beryllium	0.5	<0.5	ug/L	20071203.R13D
Total Bismuth	1	<1	ug/L	20071203.R13D
Total Boron	2	<2	ug/L	20071203.R13D
Total Cadmium	0.1	<0.1	ug/L	20071203.R13D
Total Calcium	500	14100	ug/L	20071203.R13D
Total Cerium	1	<1	ug/L	20071203.R13D
Total Cesium	1	<1	ug/L	20071203.R13D
Total Chromium	1	<1	ug/L	20071203.R13D
Total Cobalt	0.1	<0.1	ug/L	20071203.R13D
Total Copper	1	<1	ug/L	20071203.R13D
Total Europium	1	<1	ug/L	20071203.R13D
Total Gallium	1	<1	ug/L	20071203.R13D
Total Iron	20	<20	ug/L	20071203.R13D
Total Lanthanum	1	<1	ug/L	20071203.R13D
Total Lead	1	<1	ug/L	20071203.R13D
Total Lithium	5	<5	ug/L	20071203.R13D
Total Magnesium	4	2920	ug/L	20071203.R13D
Total Manganese	1	3.9	ug/L	20071203.R13D
Total Mercury	0.1	<0.1	ug/L	20071203.R13D



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Landore Resources

Work Order: 45943

Sample Name: L2-S

Date: 11/21/07

Matrix: Water

Lab #: 150268

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Molybdenum	1	<1	ug/L	20071203.R13D
Total Nickel	1	<1	ug/L	20071203.R13D
Total Niobium	1	<1	ug/L	20071203.R13D
Total Rubidium	1	1.2	ug/L	20071203.R13D
Total Scandium	1	<1	ug/L	20071203.R13D
Total Selenium	1	<1	ug/L	20071203.R13D
Total Silver	0.1	<0.1	ug/L	20071203.R13D
Total Strontium	1	14	ug/L	20071203.R13D
Total Thallium	0.1	<0.1	ug/L	20071203.R13D
Total Thorium	1	<1	ug/L	20071203.R13D
Total Tin	1	<1	ug/L	20071203.R13D
Total Titanium	1	<1	ug/L	20071203.R13D
Total Tungsten	1	<1	ug/L	20071203.R13D
Total Uranium	1	<1	ug/L	20071203.R13D
Total Vanadium	1	<1	ug/L	20071203.R13D
Total Yttrium	1	<1	ug/L	20071203.R13D
Total Zinc	1	1.1	ug/L	20071203.R13D
Total Zirconium	1	<1	ug/L	20071203.R13D

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	41	mg/L	20071129.R27B

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	13	mg/L	20071204.R55.2B

TP Water				
Parameter	MDL	Result	Units	QAQCID
Total Phosphorus (as P)	0.002	0.022	mg/L	20071130.R23.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20071129.R27A

Sample Name: L2-M

Date: 11/21/07

Matrix: Water

Lab #: 150269

ALKA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	1.6	34	mg/L	20071128.R1F

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.043	mg/L	20071129.R42A

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.43	mg/L	20071129.R5C
Fluoride	0.1	<0.1	mg/L	20071129.R5C



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Landore Resources

Work Order: 45943

Sample Name: L2-M

Date: 11/21/07

Matrix: Water

Lab #: 150269

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Nitrate (as N)	0.1	<0.1	mg/L	20071129.R5C
Nitrite (as N)	0.03	<0.03	mg/L	20071129.R5C
Sulfate	1	1.1	mg/L	20071129.R5C

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	11	mg/L	20071204.R55.1B

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.5	12.7	mg/L	20071129.R13J
Magnesium	0.04	2.66	mg/L	20071129.R13J
Total Hardness (as CaCO ₃)	0.1	42.8	mg/L	20071129.R13J

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	16.3	ug/L	20071210.R13B
Dissolved Antimony	0.5	<0.5	ug/L	20071210.R13B
Dissolved Arsenic	1	<1	ug/L	20071210.R13B
Dissolved Barium	1	3.4	ug/L	20071210.R13B
Dissolved Beryllium	0.5	<0.5	ug/L	20071210.R13B
Dissolved Bismuth	1	<1	ug/L	20071210.R13B
Dissolved Boron	2	<2	ug/L	20071210.R13B
Dissolved Cadmium	0.1	<0.1	ug/L	20071210.R13B
Dissolved Calcium	500	15800	ug/L	20071210.R13B
Dissolved Cerium	1	<1	ug/L	20071210.R13B
Dissolved Cesium	1	<1	ug/L	20071210.R13B
Dissolved Chromium	1	3.1	ug/L	20071210.R13B
Dissolved Cobalt	0.1	<0.1	ug/L	20071210.R13B
Dissolved Copper	1	<1	ug/L	20071210.R13B
Dissolved Europium	1	<1	ug/L	20071210.R13B
Dissolved Gallium	1	<1	ug/L	20071210.R13B
Dissolved Iron	20	<20	ug/L	20071210.R13B
Dissolved Lanthanum	1	<1	ug/L	20071210.R13B
Dissolved Lead	1	<1	ug/L	20071210.R13B
Dissolved Lithium	5	<5	ug/L	20071210.R13B
Dissolved Magnesium	4	3130	ug/L	20071210.R13B
Dissolved Manganese	1	<1	ug/L	20071210.R13B
Dissolved Mercury	0.1	<0.1	ug/L	20071210.R13B
Dissolved Molybdenum	1	<1	ug/L	20071210.R13B
Dissolved Nickel	1	1	ug/L	20071210.R13B
Dissolved Niobium	1	<1	ug/L	20071210.R13B
Dissolved Rubidium	1	1.3	ug/L	20071210.R13B
Dissolved Scandium	1	3.7	ug/L	20071210.R13B
Dissolved Selenium	1	<1	ug/L	20071210.R13B
Dissolved Silver	0.1	<0.1	ug/L	20071210.R13B
Dissolved Strontium	1	15.1	ug/L	20071210.R13B



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Work Order: 45943

Sample Name: L2-M

Date: 11/21/07

Matrix: Water

Lab #: 150269

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Thallium	0.1	<0.1	ug/L	20071210.R13B
Dissolved Thorium	1	<1	ug/L	20071210.R13B
Dissolved Tin	1	<1	ug/L	20071210.R13B
Dissolved Titanium	1	<1	ug/L	20071210.R13B
Dissolved Tungsten	1	2.1	ug/L	20071210.R13B
Dissolved Uranium	1	<1	ug/L	20071210.R13B
Dissolved Vanadium	1	<1	ug/L	20071210.R13B
Dissolved Yttrium	1	<1	ug/L	20071210.R13B
Dissolved Zinc	1	1.8	ug/L	20071210.R13B
Dissolved Zirconium	1	<1	ug/L	20071210.R13B

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	23.6	ug/L	20071203.R13D
Total Antimony	0.5	<0.5	ug/L	20071203.R13D
Total Arsenic	1	<1	ug/L	20071203.R13D
Total Barium	1	5.6	ug/L	20071203.R13D
Total Beryllium	0.5	<0.5	ug/L	20071203.R13D
Total Bismuth	1	<1	ug/L	20071203.R13D
Total Boron	2	<2	ug/L	20071203.R13D
Total Cadmium	0.1	<0.1	ug/L	20071203.R13D
Total Calcium	500	14400	ug/L	20071203.R13D
Total Cerium	1	<1	ug/L	20071203.R13D
Total Cesium	1	<1	ug/L	20071203.R13D
Total Chromium	1	<1	ug/L	20071203.R13D
Total Cobalt	0.1	<0.1	ug/L	20071203.R13D
Total Copper	1	<1	ug/L	20071203.R13D
Total Europium	1	<1	ug/L	20071203.R13D
Total Gallium	1	<1	ug/L	20071203.R13D
Total Iron	20	<20	ug/L	20071203.R13D
Total Lanthanum	1	<1	ug/L	20071203.R13D
Total Lead	1	<1	ug/L	20071203.R13D
Total Lithium	5	<5	ug/L	20071203.R13D
Total Magnesium	4	2950	ug/L	20071203.R13D
Total Manganese	1	4	ug/L	20071203.R13D
Total Mercury	0.1	<0.1	ug/L	20071203.R13D
Total Molybdenum	1	<1	ug/L	20071203.R13D
Total Nickel	1	<1	ug/L	20071203.R13D
Total Niobium	1	<1	ug/L	20071203.R13D
Total Rubidium	1	1.3	ug/L	20071203.R13D
Total Scandium	1	<1	ug/L	20071203.R13D
Total Selenium	1	<1	ug/L	20071203.R13D
Total Silver	0.1	<0.1	ug/L	20071203.R13D
Total Strontium	1	15.1	ug/L	20071203.R13D
Total Thallium	0.1	<0.1	ug/L	20071203.R13D
Total Thorium	1	<1	ug/L	20071203.R13D



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Landore Resources

Work Order: 45943

Sample Name: L2-M

Date: 11/21/07

Matrix: Water

Lab #: 150269

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Tin	1	<1	ug/L	20071203.R13D
Total Titanium	1	<1	ug/L	20071203.R13D
Total Tungsten	1	<1	ug/L	20071203.R13D
Total Uranium	1	<1	ug/L	20071203.R13D
Total Vanadium	1	<1	ug/L	20071203.R13D
Total Yttrium	1	<1	ug/L	20071203.R13D
Total Zinc	1	1.2	ug/L	20071203.R13D
Total Zirconium	1	<1	ug/L	20071203.R13D

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	40	mg/L	20071129.R27B

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	11	mg/L	20071204.R55.2B

TP Water				
Parameter	MDL	Result	Units	QAQCID
Total Phosphorus (as P)	0.002	0.024	mg/L	20071130.R23.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20071129.R27A

Sample Name: L2-B

Date: 11/21/07

Matrix: Water

Lab #: 150270

ALKA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	1.6	34	mg/L	20071128.R1F

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.026	mg/L	20071129.R42A

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.52	mg/L	20071129.R5C
Fluoride	0.1	<0.1	mg/L	20071129.R5C
Nitrate (as N)	0.1	<0.1	mg/L	20071129.R5C
Nitrite (as N)	0.03	<0.03	mg/L	20071129.R5C
Sulfate	1	1.1	mg/L	20071129.R5C

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	13	mg/L	20071129.R55.1A
Dissolved Organic Carbon (Dup)	0.4	13	mg/L	20071129.R55.1A



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Landore Resources

Work Order: 45943

Sample Name: L2-B

Date: 11/21/07

Matrix: Water

Lab #: 150270

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.5	13.3	mg/L	20071129.R13J
Magnesium	0.04	2.9	mg/L	20071129.R13J
Total Hardness (as CaCO3)	0.1	45	mg/L	20071129.R13J

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	15.1	ug/L	20071210.R13B
Dissolved Antimony	0.5	<0.5	ug/L	20071210.R13B
Dissolved Arsenic	1	<1	ug/L	20071210.R13B
Dissolved Barium	1	4.5	ug/L	20071210.R13B
Dissolved Beryllium	0.5	<0.5	ug/L	20071210.R13B
Dissolved Bismuth	1	<1	ug/L	20071210.R13B
Dissolved Boron	2	<2	ug/L	20071210.R13B
Dissolved Cadmium	0.1	<0.1	ug/L	20071210.R13B
Dissolved Calcium	500	15500	ug/L	20071210.R13B
Dissolved Cerium	1	<1	ug/L	20071210.R13B
Dissolved Cesium	1	<1	ug/L	20071210.R13B
Dissolved Chromium	1	3.1	ug/L	20071210.R13B
Dissolved Cobalt	0.1	<0.1	ug/L	20071210.R13B
Dissolved Copper	1	<1	ug/L	20071210.R13B
Dissolved Europium	1	<1	ug/L	20071210.R13B
Dissolved Gallium	1	<1	ug/L	20071210.R13B
Dissolved Iron	20	<20	ug/L	20071210.R13B
Dissolved Lanthanum	1	<1	ug/L	20071210.R13B
Dissolved Lead	1	<1	ug/L	20071210.R13B
Dissolved Lithium	5	<5	ug/L	20071210.R13B
Dissolved Magnesium	4	3200	ug/L	20071210.R13B
Dissolved Manganese	1	<1	ug/L	20071210.R13B
Dissolved Mercury	0.1	<0.1	ug/L	20071210.R13B
Dissolved Molybdenum	1	<1	ug/L	20071210.R13B
Dissolved Nickel	1	1.1	ug/L	20071210.R13B
Dissolved Niobium	1	<1	ug/L	20071210.R13B
Dissolved Rubidium	1	1.4	ug/L	20071210.R13B
Dissolved Scandium	1	3.4	ug/L	20071210.R13B
Dissolved Selenium	1	<1	ug/L	20071210.R13B
Dissolved Silver	0.1	<0.1	ug/L	20071210.R13B
Dissolved Strontium	1	15.7	ug/L	20071210.R13B
Dissolved Thallium	0.1	<0.1	ug/L	20071210.R13B
Dissolved Thorium	1	<1	ug/L	20071210.R13B
Dissolved Tin	1	<1	ug/L	20071210.R13B
Dissolved Titanium	1	<1	ug/L	20071210.R13B
Dissolved Tungsten	1	<1	ug/L	20071210.R13B
Dissolved Uranium	1	<1	ug/L	20071210.R13B
Dissolved Vanadium	1	<1	ug/L	20071210.R13B
Dissolved Yttrium	1	<1	ug/L	20071210.R13B
Dissolved Zinc	1	3.9	ug/L	20071210.R13B



TESTMARK Laboratories Ltd.

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Landore Resources

Work Order: 45943

Sample Name: L2-B

Date: 11/21/07

Matrix: Water

Lab #: 150270

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Zirconium	1	<1	ug/L	20071210.R13B

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	26.3	ug/L	20071203.R13D
Total Antimony	0.5	<0.5	ug/L	20071203.R13D
Total Arsenic	1	<1	ug/L	20071203.R13D
Total Barium	1	5.7	ug/L	20071203.R13D
Total Beryllium	0.5	<0.5	ug/L	20071203.R13D
Total Bismuth	1	<1	ug/L	20071203.R13D
Total Boron	2	<2	ug/L	20071203.R13D
Total Cadmium	0.1	<0.1	ug/L	20071203.R13D
Total Calcium	500	14800	ug/L	20071203.R13D
Total Cerium	1	<1	ug/L	20071203.R13D
Total Cesium	1	<1	ug/L	20071203.R13D
Total Chromium	1	<1	ug/L	20071203.R13D
Total Cobalt	0.1	<0.1	ug/L	20071203.R13D
Total Copper	1	<1	ug/L	20071203.R13D
Total Europium	1	<1	ug/L	20071203.R13D
Total Gallium	1	<1	ug/L	20071203.R13D
Total Iron	20	23	ug/L	20071203.R13D
Total Lanthanum	1	<1	ug/L	20071203.R13D
Total Lead	1	<1	ug/L	20071203.R13D
Total Lithium	5	<5	ug/L	20071203.R13D
Total Magnesium	4	3170	ug/L	20071203.R13D
Total Manganese	1	4.5	ug/L	20071203.R13D
Total Mercury	0.1	<0.1	ug/L	20071203.R13D
Total Molybdenum	1	<1	ug/L	20071203.R13D
Total Nickel	1	<1	ug/L	20071203.R13D
Total Niobium	1	<1	ug/L	20071203.R13D
Total Rubidium	1	1.3	ug/L	20071203.R13D
Total Scandium	1	<1	ug/L	20071203.R13D
Total Selenium	1	<1	ug/L	20071203.R13D
Total Silver	0.1	<0.1	ug/L	20071203.R13D
Total Strontium	1	15	ug/L	20071203.R13D
Total Thallium	0.1	<0.1	ug/L	20071203.R13D
Total Thorium	1	<1	ug/L	20071203.R13D
Total Tin	1	<1	ug/L	20071203.R13D
Total Titanium	1	<1	ug/L	20071203.R13D
Total Tungsten	1	<1	ug/L	20071203.R13D
Total Uranium	1	<1	ug/L	20071203.R13D
Total Vanadium	1	<1	ug/L	20071203.R13D
Total Yttrium	1	<1	ug/L	20071203.R13D
Total Zinc	1	2	ug/L	20071203.R13D
Total Zirconium	1	<1	ug/L	20071203.R13D



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Work Order: 45943

Sample Name: L2-B

Date: 11/21/07

Matrix: Water

Lab #: 150270

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	69	mg/L	20071129.R27B
TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	13	mg/L	20071129.R55.2A
TP Water				
Parameter	MDL	Result	Units	QAQCID
Total Phosphorus (as P)	0.002	0.018	mg/L	20071130.R23.2A
TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20071129.R27A

Sample Name: R2

Date: 11/21/07

Matrix: Water

Lab #: 150271

ALKA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	1.6	32	mg/L	20071128.R1F
AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.013	mg/L	20071129.R42A
Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.48	mg/L	20071129.R5C
Fluoride	0.1	<0.1	mg/L	20071129.R5C
Nitrate (as N)	0.1	<0.1	mg/L	20071129.R5C
Nitrite (as N)	0.03	<0.03	mg/L	20071129.R5C
Sulfate	1	1.1	mg/L	20071129.R5C
DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	14	mg/L	20071129.R55.1A
Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.5	13.1	mg/L	20071129.R13J
Magnesium	0.04	2.69	mg/L	20071129.R13J
Total Hardness (as CaCO ₃)	0.1	43.8	mg/L	20071129.R13J
ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	24.9	ug/L	20071210.R13B
Dissolved Antimony	0.5	<0.5	ug/L	20071210.R13B
Dissolved Arsenic	1	<1	ug/L	20071210.R13B
Dissolved Barium	1	4	ug/L	20071210.R13B
Dissolved Beryllium	0.5	<0.5	ug/L	20071210.R13B
Dissolved Bismuth	1	<1	ug/L	20071210.R13B



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Landore Resources

Work Order: 45943

Sample Name: R2

Date: 11/21/07

Matrix: Water

Lab #: 150271

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Boron	2	<2	ug/L	20071210.R13B
Dissolved Cadmium	0.1	<0.1	ug/L	20071210.R13B
Dissolved Calcium	500	16300	ug/L	20071210.R13B
Dissolved Cerium	1	<1	ug/L	20071210.R13B
Dissolved Cesium	1	<1	ug/L	20071210.R13B
Dissolved Chromium	1	3.3	ug/L	20071210.R13B
Dissolved Cobalt	0.1	<0.1	ug/L	20071210.R13B
Dissolved Copper	1	<1	ug/L	20071210.R13B
Dissolved Europium	1	<1	ug/L	20071210.R13B
Dissolved Gallium	1	<1	ug/L	20071210.R13B
Dissolved Iron	20	<20	ug/L	20071210.R13B
Dissolved Lanthanum	1	<1	ug/L	20071210.R13B
Dissolved Lead	1	<1	ug/L	20071210.R13B
Dissolved Lithium	5	<5	ug/L	20071210.R13B
Dissolved Magnesium	4	3500	ug/L	20071210.R13B
Dissolved Manganese	1	<1	ug/L	20071210.R13B
Dissolved Mercury	0.1	<0.1	ug/L	20071210.R13B
Dissolved Molybdenum	1	<1	ug/L	20071210.R13B
Dissolved Nickel	1	1.1	ug/L	20071210.R13B
Dissolved Niobium	1	<1	ug/L	20071210.R13B
Dissolved Rubidium	1	1.5	ug/L	20071210.R13B
Dissolved Scandium	1	4.3	ug/L	20071210.R13B
Dissolved Selenium	1	<1	ug/L	20071210.R13B
Dissolved Silver	0.1	<0.1	ug/L	20071210.R13B
Dissolved Strontium	1	16	ug/L	20071210.R13B
Dissolved Thallium	0.1	<0.1	ug/L	20071210.R13B
Dissolved Thorium	1	<1	ug/L	20071210.R13B
Dissolved Tin	1	<1	ug/L	20071210.R13B
Dissolved Titanium	1	<1	ug/L	20071210.R13B
Dissolved Tungsten	1	<1	ug/L	20071210.R13B
Dissolved Uranium	1	<1	ug/L	20071210.R13B
Dissolved Vanadium	1	<1	ug/L	20071210.R13B
Dissolved Yttrium	1	<1	ug/L	20071210.R13B
Dissolved Zinc	1	3.6	ug/L	20071210.R13B
Dissolved Zirconium	1	<1	ug/L	20071210.R13B

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	28.9	ug/L	20071203.R13D
Total Antimony	0.5	<0.5	ug/L	20071203.R13D
Total Arsenic	1	<1	ug/L	20071203.R13D
Total Barium	1	5.4	ug/L	20071203.R13D
Total Beryllium	0.5	<0.5	ug/L	20071203.R13D
Total Bismuth	1	<1	ug/L	20071203.R13D
Total Boron	2	<2	ug/L	20071203.R13D
Total Cadmium	0.1	<0.1	ug/L	20071203.R13D



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Landore Resources

Work Order: 45943

Sample Name: R2

Date: 11/21/07

Matrix: Water

Lab #: 150271

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Calcium	500	14700	ug/L	20071203.R13D
Total Cerium	1	<1	ug/L	20071203.R13D
Total Cesium	1	<1	ug/L	20071203.R13D
Total Chromium	1	<1	ug/L	20071203.R13D
Total Cobalt	0.1	<0.1	ug/L	20071203.R13D
Total Copper	1	<1	ug/L	20071203.R13D
Total Europium	1	<1	ug/L	20071203.R13D
Total Gallium	1	<1	ug/L	20071203.R13D
Total Iron	20	<20	ug/L	20071203.R13D
Total Lanthanum	1	<1	ug/L	20071203.R13D
Total Lead	1	<1	ug/L	20071203.R13D
Total Lithium	5	<5	ug/L	20071203.R13D
Total Magnesium	4	2940	ug/L	20071203.R13D
Total Manganese	1	3.4	ug/L	20071203.R13D
Total Mercury	0.1	<0.1	ug/L	20071203.R13D
Total Molybdenum	1	<1	ug/L	20071203.R13D
Total Nickel	1	<1	ug/L	20071203.R13D
Total Niobium	1	<1	ug/L	20071203.R13D
Total Rubidium	1	1.1	ug/L	20071203.R13D
Total Scandium	1	<1	ug/L	20071203.R13D
Total Selenium	1	<1	ug/L	20071203.R13D
Total Silver	0.1	<0.1	ug/L	20071203.R13D
Total Strontium	1	13.9	ug/L	20071203.R13D
Total Thallium	0.1	<0.1	ug/L	20071203.R13D
Total Thorium	1	<1	ug/L	20071203.R13D
Total Tin	1	<1	ug/L	20071203.R13D
Total Titanium	1	<1	ug/L	20071203.R13D
Total Tungsten	1	<1	ug/L	20071203.R13D
Total Uranium	1	<1	ug/L	20071203.R13D
Total Vanadium	1	<1	ug/L	20071203.R13D
Total Yttrium	1	<1	ug/L	20071203.R13D
Total Zinc	1	<1	ug/L	20071203.R13D
Total Zirconium	1	2.1	ug/L	20071203.R13D

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	25	mg/L	20071129.R27B

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	14	mg/L	20071129.R55.2A

TP Water				
Parameter	MDL	Result	Units	QAQCID
Total Phosphorus (as P)	0.002	0.022	mg/L	20071130.R23.2A



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Landore Resources

Work Order: 45943

Sample Name: R2

Date: 11/21/07

Matrix: Water

Lab #: 150271

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20071129.R27A

Sample Name: R3

Date: 11/21/07

Matrix: Water

Lab #: 150272

ALKA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	1.6	29	mg/L	20071128.R1F

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.002	0.016	mg/L	20071129.R42A
Ammonia (as N) (Dup)	0.002	0.019	mg/L	20071129.R42A

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.23	mg/L	20071129.R5C
Fluoride	0.1	<0.1	mg/L	20071129.R5C
Nitrate (as N)	0.1	<0.1	mg/L	20071129.R5C
Nitrite (as N)	0.03	<0.03	mg/L	20071129.R5C
Sulfate	1	1	mg/L	20071129.R5C

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	18	mg/L	20071204.R55.1B
Dissolved Organic Carbon (Dup)	0.4	16	mg/L	20071204.R55.1B

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.5	14.1	mg/L	20071129.R13J
Magnesium	0.04	2.2	mg/L	20071129.R13J
Total Hardness (as CaCO ₃)	0.1	44.3	mg/L	20071129.R13J

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	55.2	ug/L	20071210.R13B
Dissolved Antimony	0.5	<0.5	ug/L	20071210.R13B
Dissolved Arsenic	1	2.2	ug/L	20071210.R13B
Dissolved Barium	1	3.4	ug/L	20071210.R13B
Dissolved Beryllium	0.5	0.61	ug/L	20071210.R13B
Dissolved Bismuth	1	<1	ug/L	20071210.R13B
Dissolved Boron	2	<2	ug/L	20071210.R13B
Dissolved Cadmium	0.1	0.31	ug/L	20071210.R13B
Dissolved Calcium	500	15900	ug/L	20071210.R13B
Dissolved Cerium	1	<1	ug/L	20071210.R13B
Dissolved Cesium	1	<1	ug/L	20071210.R13B
Dissolved Chromium	1	3.2	ug/L	20071210.R13B
Dissolved Cobalt	0.1	<0.1	ug/L	20071210.R13B
Dissolved Copper	1	1	ug/L	20071210.R13B
Dissolved Europium	1	<1	ug/L	20071210.R13B

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12/10/07

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Work Order: 45943

Sample Name: R3

Date: 11/21/07

Matrix: Water

Lab #: 150272

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Gallium	1	<1	ug/L	20071210.R13B
Dissolved Iron	20	62	ug/L	20071210.R13B
Dissolved Lanthanum	1	<1	ug/L	20071210.R13B
Dissolved Lead	1	<1	ug/L	20071210.R13B
Dissolved Lithium	5	<5	ug/L	20071210.R13B
Dissolved Magnesium	4	2500	ug/L	20071210.R13B
Dissolved Manganese	1	1.4	ug/L	20071210.R13B
Dissolved Mercury	0.1	0.13	ug/L	20071210.R13B
Dissolved Molybdenum	1	<1	ug/L	20071210.R13B
Dissolved Nickel	1	1.2	ug/L	20071210.R13B
Dissolved Niobium	1	<1	ug/L	20071210.R13B
Dissolved Rubidium	1	1.5	ug/L	20071210.R13B
Dissolved Scandium	1	6	ug/L	20071210.R13B
Dissolved Selenium	1	3.6	ug/L	20071210.R13B
Dissolved Silver	0.1	<0.1	ug/L	20071210.R13B
Dissolved Strontium	1	14.8	ug/L	20071210.R13B
Dissolved Thallium	0.1	<0.1	ug/L	20071210.R13B
Dissolved Thorium	1	<1	ug/L	20071210.R13B
Dissolved Tin	1	<1	ug/L	20071210.R13B
Dissolved Titanium	1	2.1	ug/L	20071210.R13B
Dissolved Tungsten	1	<1	ug/L	20071210.R13B
Dissolved Uranium	1	<1	ug/L	20071210.R13B
Dissolved Vanadium	1	<1	ug/L	20071210.R13B
Dissolved Yttrium	1	<1	ug/L	20071210.R13B
Dissolved Zinc	1	5.4	ug/L	20071210.R13B
Dissolved Zirconium	1	<1	ug/L	20071210.R13B

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	66.8	ug/L	20071203.R13D
Total Antimony	0.5	<0.5	ug/L	20071203.R13D
Total Arsenic	1	1.1	ug/L	20071203.R13D
Total Barium	1	4.1	ug/L	20071203.R13D
Total Beryllium	0.5	<0.5	ug/L	20071203.R13D
Total Bismuth	1	<1	ug/L	20071203.R13D
Total Boron	2	<2	ug/L	20071203.R13D
Total Cadmium	0.1	<0.1	ug/L	20071203.R13D
Total Calcium	500	14700	ug/L	20071203.R13D
Total Cerium	1	<1	ug/L	20071203.R13D
Total Cesium	1	<1	ug/L	20071203.R13D
Total Chromium	1	<1	ug/L	20071203.R13D
Total Cobalt	0.1	<0.1	ug/L	20071203.R13D
Total Copper	1	<1	ug/L	20071203.R13D
Total Europium	1	<1	ug/L	20071203.R13D
Total Gallium	1	<1	ug/L	20071203.R13D
Total Iron	20	42	ug/L	20071203.R13D



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Landore Resources

Work Order: 45943

Sample Name: R3

Date: 11/21/07

Matrix: Water

Lab #: 150272

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Lanthanum	1	<1	ug/L	20071203.R13D
Total Lead	1	<1	ug/L	20071203.R13D
Total Lithium	5	<5	ug/L	20071203.R13D
Total Magnesium	4	2230	ug/L	20071203.R13D
Total Manganese	1	3.1	ug/L	20071203.R13D
Total Mercury	0.1	<0.1	ug/L	20071203.R13D
Total Molybdenum	1	<1	ug/L	20071203.R13D
Total Nickel	1	<1	ug/L	20071203.R13D
Total Niobium	1	<1	ug/L	20071203.R13D
Total Rubidium	1	1.1	ug/L	20071203.R13D
Total Scandium	1	<1	ug/L	20071203.R13D
Total Selenium	1	<1	ug/L	20071203.R13D
Total Silver	0.1	<0.1	ug/L	20071203.R13D
Total Strontium	1	12.6	ug/L	20071203.R13D
Total Thallium	0.1	<0.1	ug/L	20071203.R13D
Total Thorium	1	<1	ug/L	20071203.R13D
Total Tin	1	<1	ug/L	20071203.R13D
Total Titanium	1	1.2	ug/L	20071203.R13D
Total Tungsten	1	<1	ug/L	20071203.R13D
Total Uranium	1	<1	ug/L	20071203.R13D
Total Vanadium	1	<1	ug/L	20071203.R13D
Total Yttrium	1	<1	ug/L	20071203.R13D
Total Zinc	1	1.7	ug/L	20071203.R13D
Total Zirconium	1	2	ug/L	20071203.R13D

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	71	mg/L	20071129.R27B

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	18	mg/L	20071204.R55.2B

TP Water				
Parameter	MDL	Result	Units	QAQCID
Total Phosphorus (as P)	0.002	0.025	mg/L	20071130.R23.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20071129.R27A



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Landore Resources

Work Order: 45943

MDL Method detection limit or minimum reporting limit.

% Rec Surrogate compounds are added to the sample in some cases and the recovery is reported as a percent recovered.

QAQCID This is a unique reference to the quality control data set used to generate the reported value.

Data reported for organic analysis in soil samples are corrected for moisture content

Matrix If the matrix is a leachate, the sample was extracted according to regulation 558.

INT Interferences

TNTC Too numerous to count

ND Not detected



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Landore Resources

Work Order: 45943

Quality Control Data:

ALKA

100 mg/L Control-Metrohm						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	1.6	mg/L	120	97	80	20071128.R1F

AmmoniaFIA

500 ppb HN3						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Ammonia (as N)	0.002	mg/L	0.6	0.52	0.4	20071129.R42A

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Ammonia (as N)	0.002	mg/L	0.02	0.003	<0.002	20071129.R42A

Anions Water

Blank (IC-2)						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Chloride	0.2	mg/L	0.5	<0.2	<0.2	20071129.R5C
Fluoride	0.1	mg/L	0.5	<0.1	<0.1	20071129.R5C
Nitrate (as N)	0.1	mg/L	0.5	<0.1	<0.1	20071129.R5C
Nitrite (as N)	0.03	mg/L	0.5	<0.03	<0.03	20071129.R5C
Sulfate	1	mg/L	1	<1	<1	20071129.R5C

Control (IC-2)						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Chloride	0.2	mg/L	100	88.9	80	20071129.R5C
Fluoride	0.1	mg/L	55	52	45	20071129.R5C
Nitrate (as N)	0.1	mg/L	55	44.2	40	20071129.R5C
Nitrite (as N)	0.03	mg/L	62	53.3	47	20071129.R5C
Sulfate	1	mg/L	100	85.5	78	20071129.R5C

DOC Water

20 ppm Blank Spike						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Organic Carbon	0.4	mg/L	22	19	18	20071129.R55.1A
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Organic Carbon	0.4	mg/L	22	22	18	20071204.R55.1B

Method Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Organic Carbon	0.4	mg/L	0.4	<0.4	<0.4	20071129.R55.1A
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Organic Carbon	0.4	mg/L	0.4	<0.4	<0.4	20071204.R55.1B

ICPMS Dis. Water



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Work Order: 45943

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Aluminum	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Antimony	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Arsenic	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Barium	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Beryllium	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Bismuth	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Boron	2	ug/L	2	<2	<2	20071210.R13B
Dissolved Cadmium	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Calcium	50	ug/L	50	<50	<50	20071210.R13B
Dissolved Cerium	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Cesium	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Chromium	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Cobalt	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Copper	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Europium	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Gallium	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Iron	20	ug/L	20	<20	<20	20071210.R13B
Dissolved Lanthanum	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Lead	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Lithium	5	ug/L	5	<5	<5	20071210.R13B
Dissolved Magnesium	4	ug/L	4	<4	<4	20071210.R13B
Dissolved Manganese	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Mercury	0.1	ug/L	0.1	<0.1	<0.1	20071210.R13B
Dissolved Molybdenum	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Nickel	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Niobium	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Rubidium	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Scandium	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Selenium	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Silver	5	ug/L	5	<5	<5	20071210.R13B
Dissolved Strontium	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Thallium	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Thorium	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Tin	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Titanium	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Tungsten	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Uranium	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Vanadium	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Yttrium	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Zinc	1	ug/L	1	<1	<1	20071210.R13B
Dissolved Zirconium	1	ug/L	1	<1	<1	20071210.R13B

Blank Spike (1011)						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Aluminum	1	ug/L	600	471	400	20071210.R13B
Dissolved Arsenic	1	ug/L	120	100	80	20071210.R13B

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ICPMS Dis. Water

Blank Spike (1011)						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Barium	1	ug/L	120	104	80	20071210.R13B
Dissolved Beryllium	1	ug/L	125	95.1	75	20071210.R13B
Dissolved Boron	2	ug/L	125	91.4	75	20071210.R13B
Dissolved Cadmium	1	ug/L	120	99.8	80	20071210.R13B
Dissolved Calcium	50	ug/L	1200	1110	800	20071210.R13B
Dissolved Chromium	1	ug/L	120	90.6	80	20071210.R13B
Dissolved Cobalt	1	ug/L	120	94.3	80	20071210.R13B
Dissolved Copper	1	ug/L	120	98.3	80	20071210.R13B
Dissolved Iron	20	ug/L	600	514	400	20071210.R13B
Dissolved Lead	1	ug/L	120	103	80	20071210.R13B
Dissolved Magnesium	4	ug/L	1200	963	800	20071210.R13B
Dissolved Manganese	1	ug/L	120	99.6	80	20071210.R13B
Dissolved Molybdenum	1	ug/L	120	102	80	20071210.R13B
Dissolved Nickel	1	ug/L	120	97.6	80	20071210.R13B
Dissolved Selenium	1	ug/L	120	104	80	20071210.R13B
Dissolved Thallium	1	ug/L	120	102	80	20071210.R13B
Dissolved Vanadium	1	ug/L	120	96.8	80	20071210.R13B
Dissolved Zinc	1	ug/L	120	99.6	80	20071210.R13B

ICPMS Tot. Water

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Aluminum	1	ug/L	1	<1	<1	20071203.R13D
Total Antimony	1	ug/L	1	<1	<1	20071203.R13D
Total Arsenic	1	ug/L	1	<1	<1	20071203.R13D
Total Barium	1	ug/L	1	<1	<1	20071203.R13D
Total Beryllium	1	ug/L	1	<1	<1	20071203.R13D
Total Bismuth	1	ug/L	1	<1	<1	20071203.R13D
Total Boron	2	ug/L	2	<2	<2	20071203.R13D
Total Cadmium	1	ug/L	1	<1	<1	20071203.R13D
Total Cerium	1	ug/L	1	<1	<1	20071203.R13D
Total Cesium	1	ug/L	1	<1	<1	20071203.R13D
Total Chromium	1	ug/L	1	<1	<1	20071203.R13D
Total Cobalt	1	ug/L	1	<1	<1	20071203.R13D
Total Copper	1	ug/L	1	<1	<1	20071203.R13D
Total Europium	1	ug/L	1	<1	<1	20071203.R13D
Total Gallium	1	ug/L	1	<1	<1	20071203.R13D
Total Iron	20	ug/L	20	<20	<20	20071203.R13D
Total Lanthanum	1	ug/L	1	<1	<1	20071203.R13D
Total Lead	1	ug/L	1	<1	<1	20071203.R13D
Total Lithium	5	ug/L	5	<5	<5	20071203.R13D
Total Magnesium	4	ug/L	4	<4	<4	20071203.R13D
Total Manganese	1	ug/L	1	<1	<1	20071203.R13D
Total Mercury	0.1	ug/L	0.1	<0.1	<0.1	20071203.R13D
Total Molybdenum	1	ug/L	1	<1	<1	20071203.R13D

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ICPMS Tot. Water

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Nickel	1	ug/L	1	<1	<1	20071203.R13D
Total Niobium	1	ug/L	1	<1	<1	20071203.R13D
Total Rubidium	1	ug/L	1	<1	<1	20071203.R13D
Total Selenium	1	ug/L	1	<1	<1	20071203.R13D
Total Silver	5	ug/L	5	<5	<5	20071203.R13D
Total Strontium	1	ug/L	1	<1	<1	20071203.R13D
Total Thallium	1	ug/L	1	<1	<1	20071203.R13D
Total Thorium	1	ug/L	1	<1	<1	20071203.R13D
Total Tin	1	ug/L	1	<1	<1	20071203.R13D
Total Tungsten	1	ug/L	1	<1	<1	20071203.R13D
Total Uranium	1	ug/L	1	<1	<1	20071203.R13D
Total Vanadium	1	ug/L	1	<1	<1	20071203.R13D
Total Yttrium	1	ug/L	1	<1	<1	20071203.R13D
Total Zinc	1	ug/L	1	<1	<1	20071203.R13D
Total Zirconium	1	ug/L	1	<1	<1	20071203.R13D

Blank Spike (1011)						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Aluminum	1	ug/L	600	562	400	20071203.R13D
Total Arsenic	1	ug/L	120	112	80	20071203.R13D
Total Barium	1	ug/L	120	97.9	80	20071203.R13D
Total Beryllium	1	ug/L	125	111	75	20071203.R13D
Total Boron	2	ug/L	125	109	75	20071203.R13D
Total Cadmium	1	ug/L	120	113	80	20071203.R13D
Total Calcium	50	ug/L	1200	1110	800	20071203.R13D
Total Chromium	1	ug/L	120	106	80	20071203.R13D
Total Cobalt	1	ug/L	120	108	80	20071203.R13D
Total Copper	1	ug/L	120	108	80	20071203.R13D
Total Iron	20	ug/L	600	515	400	20071203.R13D
Total Lead	1	ug/L	120	96.7	80	20071203.R13D
Total Magnesium	4	ug/L	1200	1120	800	20071203.R13D
Total Manganese	1	ug/L	120	112	80	20071203.R13D
Total Molybdenum	1	ug/L	120	97.2	80	20071203.R13D
Total Nickel	1	ug/L	120	103	80	20071203.R13D
Total Selenium	1	ug/L	120	114	80	20071203.R13D
Total Thallium	1	ug/L	120	96.6	80	20071203.R13D
Total Vanadium	1	ug/L	120	111	80	20071203.R13D
Total Zinc	1	ug/L	120	113	80	20071203.R13D

ICPMS Water

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Calcium	0.1	ug/L	0.1	<0.1	<0.1	20071129.R13J
Magnesium	4	ug/L	4	<4	<4	20071129.R13J



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ICPMS Water

Blank Spike (1011)						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Calcium	50	ug/L	1200	1020	800	20071129.R13J
Magnesium	4	ug/L	1200	969	800	20071129.R13J

TDS

200 mg/L Control						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Dissolved Solids	25	mg/L	240	180	160	20071129.R27B

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Dissolved Solids	25	mg/L	<25	<25	<25	20071129.R27B

TOC Water

20 ppm Blank Spike						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Organic Carbon	0.4	mg/L	22	19	18	20071129.R55.2A
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Organic Carbon	0.4	mg/L	22	22	18	20071204.R55.2B

Method Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Organic Carbon	0.4	mg/L	0.4	<0.4	<0.4	20071129.R55.2A
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Organic Carbon	0.4	mg/L	0.4	<0.4	<0.4	20071204.R55.2B

TP Water

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0.005	<0.002	<0.002	20071130.R23.2A

Control (0.05 mg/L)						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0.06	0.054	0.04	20071130.R23.2A

TSS

160 mg/L Control						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Suspended Solids	6	mg/L	192	138	128	20071129.R27A

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Suspended Solids	3	mg/L	<3	<3	<3	20071129.R27A



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Work Order: 45943

UCL Upper Control Limit

LCL Lower Control Limit



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Analytical Report

Client:	Jim Garber	Work Order Number:	48420
Company:	Landore Resources	Date Order Received:	01/22/08
Address:	555 Central Ave Thunder Bay, ON, P7B 5R5	Regulation:	Information not provided
Phone:	(807) 623-3770	PO #:	
Fax:	(807) 623-2335	Project #:	061192074
Email:	jgarber@landore.com		
Notes:	See sample notes		

Analyses were performed on the following samples submitted with your order.

The results relate only to the items tested.

Sample Name	Lab #	Matrix	Type	Comments	Date Collected	Time Collected
L4-S	156482	Water	Grab		01/16/08	14:00
L4-M	156483	Water	Comp		01/16/08	14:00
L4-B	156484	Water	Comp		01/16/08	14:00
L3-S	156485	Water	Grab		01/16/08	12:00



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Work Order: 48420

The following instrumentation and reference methods were used for your sample(s)

Method Name	Description	Reference
ALKA	Determination of Alkalinity Instrument group: Automater Analyzer	Mod. APHA-2320
AmmoniaFIA	Determination of Ammonia/Ammonium by Flow Analysis Instrument group: Skalar San++ FIA	Mod. APHA-4500
Anions Water	Determination of Anions by Ion Chromatography Instrument group: Dionex DX300 IC	Mod. SW846-9056
DOC Water	Determination of Dissolved Organic Carbon in Water Instrument group: Dohrman TOC Analyzer	Mod. APHA-5310
Hardness/ICP	Determination of Hardness in Water by ICP Instrument group: Perkin Elmer Elan 5000	Mod. SW846-6020
ICPMS Dis. Water	Determination of Dissolved Metals in Water by ICP/MS Instrument group: Perkin Elmer Elan 5000	Mod. SW846-6020
ICPMS Dis. Water	Determination of Dissolved Metals in Water by ICP/MS Instrument group: Perkin Elmer Elan 5000	Mod. SW846-6020
ICPMS Tot. Water	Determination of Total Metals in Water by ICP/MS with Digestion Instrument group: Perkin Elmer Elan 5000	Mod. SW846-6020
TDS	Determination of Total Dissolved Solids in water by gravimetry Instrument group: Mettler Toledo Balance	Mod. APHA-2540
TOC Water	Determination of Total Organic Carbon in Water Instrument group: Dohrman TOC Analyzer	Mod. APHA-5310
TP Water	Determination of Total Phosphorus by FIA/UV Digestion Instrument group: Skalar San++ FIA	Mod. APHA-4500
TSS	Determination of Total Suspended Solids in water by gravimetry Instrument group: Mettler Toledo Balance	Mod. APHA-2540
Sample Notes:	Please note: Samples 156482-485 for DOC, NO ₂ , and NO ₃ analysis exceeded the method hold time prior to receipt at Testmark.	



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Work Order: 48420

This report has been approved by:

Dr. Xiaojing Li
Chief Chemist

Ryan Lawrence, B.Sc.
Inorganic Section Head



TESTMARK Laboratories Ltd.

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Landore Resources

Work Order: 48420

Sample Data:

Sample Name: L4-S

Date: 01/16/08

Matrix: Water

Lab #: 156482

ALKA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	1.6	39	mg/L	20080122.R1A
M-Alkalinity as CaCO ₃ (pH 4.5) (Dup)	1.6	37	mg/L	20080122.R1A

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.01	0.5	mg/L	20080123.R42A

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.59	mg/L	20080123.R5a
Fluoride	0.1	<0.1	mg/L	20080123.R5a
Nitrate (as N)	0.1	<0.1	mg/L	20080123.R5a
Nitrite (as N)	0.03	<0.03	mg/L	20080123.R5a
Sulfate	1	1.1	mg/L	20080123.R5a

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	21	mg/L	20080123.R55.1A

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.5	33.3	mg/L	20080122.R13D
Magnesium	0.04	5.15	mg/L	20080122.R13D
Total Hardness (as CaCO ₃)	0.1	104	mg/L	20080122.R13D

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	34.1	ug/L	20080130.R13A
Dissolved Antimony	0.5	<0.5	ug/L	20080130.R13A
Dissolved Arsenic	1	<1	ug/L	20080130.R13A
Dissolved Barium	1	5.2	ug/L	20080130.R13A
Dissolved Beryllium	0.5	<0.5	ug/L	20080130.R13A
Dissolved Bismuth	1	<1	ug/L	20080130.R13A
Dissolved Boron	2	<2	ug/L	20080130.R13A
Dissolved Cadmium	0.1	<0.1	ug/L	20080130.R13A
Dissolved Calcium	500	14700	ug/L	20080130.R13A
Dissolved Cerium	1	<1	ug/L	20080130.R13A
Dissolved Cesium	1	<1	ug/L	20080130.R13A
Dissolved Chromium	1	<1	ug/L	20080130.R13A
Dissolved Cobalt	0.1	<0.1	ug/L	20080130.R13A
Dissolved Copper	1	1.8	ug/L	20080130.R13A
Dissolved Europium	1	<1	ug/L	20080130.R13A
Dissolved Gallium	1	<1	ug/L	20080130.R13A
Dissolved Iron	20	62	ug/L	20080130.R13A
Dissolved Lanthanum	1	<1	ug/L	20080130.R13A
Dissolved Lead	1	<1	ug/L	20080130.R13A
Dissolved Lithium	5	<5	ug/L	20080130.R13A

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Landore Resources

Work Order: 48420

Sample Name: L4-S

Date: 01/16/08

Matrix: Water

Lab #: 156482

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Magnesium	4	2900	ug/L	20080130.R13A
Dissolved Manganese	1	1.8	ug/L	20080130.R13A
Dissolved Mercury	0.1	<0.1	ug/L	20080130.R13A
Dissolved Molybdenum	1	<1	ug/L	20080130.R13A
Dissolved Nickel	1	<1	ug/L	20080130.R13A
Dissolved Niobium	1	<1	ug/L	20080130.R13A
Dissolved Rubidium	1	1.4	ug/L	20080130.R13A
Dissolved Scandium	1	3.7	ug/L	20080130.R13A
Dissolved Selenium	1	<1	ug/L	20080130.R13A
Dissolved Silver	0.1	<0.1	ug/L	20080130.R13A
Dissolved Strontium	1	15.3	ug/L	20080130.R13A
Dissolved Thallium	0.1	<0.1	ug/L	20080130.R13A
Dissolved Thorium	1	<1	ug/L	20080130.R13A
Dissolved Tin	1	<1	ug/L	20080130.R13A
Dissolved Titanium	1	<1	ug/L	20080130.R13A
Dissolved Tungsten	1	<1	ug/L	20080130.R13A
Dissolved Uranium	1	<1	ug/L	20080130.R13A
Dissolved Vanadium	1	<1	ug/L	20080130.R13A
Dissolved Yttrium	1	<1	ug/L	20080130.R13A
Dissolved Zinc	1	4.3	ug/L	20080130.R13A
Dissolved Zirconium	1	1.5	ug/L	20080130.R13A

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	37.1	ug/L	20080130.R13B
Total Antimony	0.5	4.4	ug/L	20080130.R13B
Total Arsenic	1	<1	ug/L	20080130.R13B
Total Barium	1	5.3	ug/L	20080130.R13B
Total Beryllium	0.5	<0.5	ug/L	20080130.R13B
Total Bismuth	1	<1	ug/L	20080130.R13B
Total Boron	2	<2	ug/L	20080130.R13B
Total Cadmium	0.1	<0.1	ug/L	20080130.R13B
Total Calcium	50	14700	ug/L	20080130.R13B
Total Cerium	1	<1	ug/L	20080130.R13B
Total Cesium	1	<1	ug/L	20080130.R13B
Total Chromium	1	<1	ug/L	20080130.R13B
Total Cobalt	0.1	<0.1	ug/L	20080130.R13B
Total Copper	1	<1	ug/L	20080130.R13B
Total Europium	1	<1	ug/L	20080130.R13B
Total Gallium	1	<1	ug/L	20080130.R13B
Total Iron	20	110	ug/L	20080130.R13B
Total Lanthanum	1	<1	ug/L	20080130.R13B
Total Lead	1	<1	ug/L	20080130.R13B
Total Lithium	5	<5	ug/L	20080130.R13B
Total Magnesium	4	2660	ug/L	20080130.R13B
Total Manganese	1	2.3	ug/L	20080130.R13B

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01/30/08

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Landore Resources

Work Order: 48420

Sample Name: L4-S

Date: 01/16/08

Matrix: Water

Lab #: 156482

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Mercury	0.1	<0.1	ug/L	20080130.R13B
Total Molybdenum	1	<1	ug/L	20080130.R13B
Total Nickel	1	<1	ug/L	20080130.R13B
Total Niobium	1	<1	ug/L	20080130.R13B
Total Rubidium	1	1.4	ug/L	20080130.R13B
Total Scandium	1	<1	ug/L	20080130.R13B
Total Selenium	1	<1	ug/L	20080130.R13B
Total Silver	0.1	<0.1	ug/L	20080130.R13B
Total Strontium	1	15.1	ug/L	20080130.R13B
Total Thallium	0.1	<0.1	ug/L	20080130.R13B
Total Thorium	1	<1	ug/L	20080130.R13B
Total Tin	1	<1	ug/L	20080130.R13B
Total Titanium	1	1.1	ug/L	20080130.R13B
Total Tungsten	1	<1	ug/L	20080130.R13B
Total Uranium	1	<1	ug/L	20080130.R13B
Total Vanadium	1	<1	ug/L	20080130.R13B
Total Yttrium	1	<1	ug/L	20080130.R13B
Total Zinc	1	<1	ug/L	20080130.R13B
Total Zirconium	1	1.6	ug/L	20080130.R13B

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	210	mg/L	20080122.R27B

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	23	mg/L	20080123.R55.2A

TP Water				
Parameter	MDL	Result	Units	QAQCID
Total Phosphorus (as P)	0.002	0.0394	mg/L	20080124.R23.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20080122.R27A

Sample Name: L4-M

Date: 01/16/08

Matrix: Water

Lab #: 156483

ALKA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	1.6	37	mg/L	20080122.R1A

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.01	0.06	mg/L	20080123.R42A

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.29	mg/L	20080123.R5a



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Landore Resources

Work Order: 48420

Sample Name: L4-M

Date: 01/16/08

Matrix: Water

Lab #: 156483

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Fluoride	0.1	<0.1	mg/L	20080123.R5a
Nitrate (as N)	0.1	<0.1	mg/L	20080123.R5a
Nitrite (as N)	0.03	<0.03	mg/L	20080123.R5a
Sulfate	1	<1	mg/L	20080123.R5a

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	21	mg/L	20080123.R55.1A

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.5	20.7	mg/L	20080122.R13D
Magnesium	0.04	3.59	mg/L	20080122.R13D
Total Hardness (as CaCO3)	0.1	66.4	mg/L	20080122.R13D

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	22.5	ug/L	20080123.R13F
Dissolved Antimony	0.5	<0.5	ug/L	20080123.R13F
Dissolved Arsenic	1	<1	ug/L	20080123.R13F
Dissolved Barium	1	4.7	ug/L	20080123.R13F
Dissolved Beryllium	0.5	<0.5	ug/L	20080123.R13F
Dissolved Bismuth	1	<1	ug/L	20080123.R13F
Dissolved Boron	2	<2	ug/L	20080123.R13F
Dissolved Cadmium	0.1	<0.1	ug/L	20080123.R13F
Dissolved Calcium	500	12000	ug/L	20080123.R13F
Dissolved Cerium	1	<1	ug/L	20080123.R13F
Dissolved Cesium	1	<1	ug/L	20080123.R13F
Dissolved Chromium	1	<1	ug/L	20080123.R13F
Dissolved Cobalt	0.1	<0.1	ug/L	20080123.R13F
Dissolved Copper	1	<1	ug/L	20080123.R13F
Dissolved Europium	1	<1	ug/L	20080123.R13F
Dissolved Gallium	1	<1	ug/L	20080123.R13F
Dissolved Iron	20	<20	ug/L	20080123.R13F
Dissolved Lanthanum	1	<1	ug/L	20080123.R13F
Dissolved Lead	1	<1	ug/L	20080123.R13F
Dissolved Lithium	5	<5	ug/L	20080123.R13F
Dissolved Magnesium	4	2310	ug/L	20080123.R13F
Dissolved Manganese	1	1.2	ug/L	20080123.R13F
Dissolved Mercury	0.1	<0.1	ug/L	20080123.R13F
Dissolved Molybdenum	1	<1	ug/L	20080123.R13F
Dissolved Nickel	1	<1	ug/L	20080123.R13F
Dissolved Niobium	1	<1	ug/L	20080123.R13F
Dissolved Rubidium	1	1.2	ug/L	20080123.R13F
Dissolved Scandium	1	1.3	ug/L	20080123.R13F
Dissolved Selenium	1	<1	ug/L	20080123.R13F
Dissolved Silver	0.1	<0.1	ug/L	20080123.R13F



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Work Order: 48420

Sample Name: L4-M

Date: 01/16/08

Matrix: Water

Lab #: 156483

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Strontium	1	12.2	ug/L	20080123.R13F
Dissolved Thallium	0.1	<0.1	ug/L	20080123.R13F
Dissolved Thorium	1	<1	ug/L	20080123.R13F
Dissolved Tin	1	<1	ug/L	20080123.R13F
Dissolved Titanium	1	<1	ug/L	20080123.R13F
Dissolved Tungsten	1	<1	ug/L	20080123.R13F
Dissolved Uranium	1	<1	ug/L	20080123.R13F
Dissolved Vanadium	1	<1	ug/L	20080123.R13F
Dissolved Yttrium	1	<1	ug/L	20080123.R13F
Dissolved Zinc	1	1.5	ug/L	20080123.R13F
Dissolved Zirconium	1	<1	ug/L	20080123.R13F

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	47	ug/L	20080129.R13D
Total Antimony	0.5	13.3	ug/L	20080129.R13D
Total Arsenic	1	1.1	ug/L	20080129.R13D
Total Barium	1	5.8	ug/L	20080129.R13D
Total Beryllium	0.5	<0.5	ug/L	20080129.R13D
Total Bismuth	1	<1	ug/L	20080129.R13D
Total Boron	2	2.4	ug/L	20080129.R13D
Total Cadmium	0.1	<0.1	ug/L	20080129.R13D
Total Calcium	500	15500	ug/L	20080129.R13D
Total Cerium	1	<1	ug/L	20080129.R13D
Total Cesium	1	<1	ug/L	20080129.R13D
Total Chromium	1	<1	ug/L	20080129.R13D
Total Cobalt	0.1	<0.1	ug/L	20080129.R13D
Total Copper	1	<1	ug/L	20080129.R13D
Total Europium	1	<1	ug/L	20080129.R13D
Total Gallium	1	<1	ug/L	20080129.R13D
Total Iron	20	110	ug/L	20080129.R13D
Total Lanthanum	1	<1	ug/L	20080129.R13D
Total Lead	1	<1	ug/L	20080129.R13D
Total Lithium	5	<5	ug/L	20080129.R13D
Total Magnesium	4	3360	ug/L	20080129.R13D
Total Manganese	1	2.3	ug/L	20080129.R13D
Total Mercury	0.1	<0.1	ug/L	20080129.R13D
Total Molybdenum	1	3.6	ug/L	20080129.R13D
Total Nickel	1	1	ug/L	20080129.R13D
Total Niobium	1	<1	ug/L	20080129.R13D
Total Rubidium	1	1.3	ug/L	20080129.R13D
Total Scandium	1	<1	ug/L	20080129.R13D
Total Selenium	1	2	ug/L	20080129.R13D
Total Silver	0.1	<0.1	ug/L	20080129.R13D
Total Strontium	1	14.4	ug/L	20080129.R13D
Total Thallium	0.1	<0.1	ug/L	20080129.R13D

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Work Order: 48420

Sample Name: L4-M

Date: 01/16/08

Matrix: Water

Lab #: 156483

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Thorium	1	<1	ug/L	20080129.R13D
Total Tin	1	<1	ug/L	20080129.R13D
Total Titanium	1	1.2	ug/L	20080129.R13D
Total Tungsten	1	<1	ug/L	20080129.R13D
Total Uranium	1	<1	ug/L	20080129.R13D
Total Vanadium	1	<1	ug/L	20080129.R13D
Total Yttrium	1	<1	ug/L	20080129.R13D
Total Zinc	1	<1	ug/L	20080129.R13D
Total Zirconium	1	1.5	ug/L	20080129.R13D

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	160	mg/L	20080122.R27B

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	21	mg/L	20080123.R55.2A

TP Water				
Parameter	MDL	Result	Units	QAQCID
Total Phosphorus (as P)	0.002	0.0659	mg/L	20080124.R23.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20080122.R27A

Sample Name: L4-B

Date: 01/16/08

Matrix: Water

Lab #: 156484

ALKA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	1.6	34	mg/L	20080122.R1A

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.01	0.06	mg/L	20080123.R42A

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	<0.2	mg/L	20080123.R5a
Fluoride	0.1	<0.1	mg/L	20080123.R5a
Nitrate (as N)	0.1	<0.1	mg/L	20080123.R5a
Nitrite (as N)	0.03	<0.03	mg/L	20080123.R5a
Sulfate	1	<1	mg/L	20080123.R5a

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	20	mg/L	20080123.R55.1A



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Landore Resources

Work Order: 48420

Sample Name: L4-B

Date: 01/16/08

Matrix: Water

Lab #: 156484

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.5	22.3	mg/L	20080122.R13D
Magnesium	0.04	4.09	mg/L	20080122.R13D
Total Hardness (as CaCO3)	0.1	72.6	mg/L	20080122.R13D

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	22.4	ug/L	20080123.R13F
Dissolved Antimony	0.5	<0.5	ug/L	20080123.R13F
Dissolved Arsenic	1	<1	ug/L	20080123.R13F
Dissolved Barium	1	3.8	ug/L	20080123.R13F
Dissolved Beryllium	0.5	<0.5	ug/L	20080123.R13F
Dissolved Bismuth	1	<1	ug/L	20080123.R13F
Dissolved Boron	2	<2	ug/L	20080123.R13F
Dissolved Cadmium	0.1	<0.1	ug/L	20080123.R13F
Dissolved Calcium	500	11600	ug/L	20080123.R13F
Dissolved Cerium	1	<1	ug/L	20080123.R13F
Dissolved Cesium	1	<1	ug/L	20080123.R13F
Dissolved Chromium	1	<1	ug/L	20080123.R13F
Dissolved Cobalt	0.1	<0.1	ug/L	20080123.R13F
Dissolved Copper	1	<1	ug/L	20080123.R13F
Dissolved Europium	1	<1	ug/L	20080123.R13F
Dissolved Gallium	1	<1	ug/L	20080123.R13F
Dissolved Iron	20	<20	ug/L	20080123.R13F
Dissolved Lanthanum	1	<1	ug/L	20080123.R13F
Dissolved Lead	1	<1	ug/L	20080123.R13F
Dissolved Lithium	5	<5	ug/L	20080123.R13F
Dissolved Magnesium	4	2140	ug/L	20080123.R13F
Dissolved Manganese	1	1.7	ug/L	20080123.R13F
Dissolved Mercury	0.1	<0.1	ug/L	20080123.R13F
Dissolved Molybdenum	1	<1	ug/L	20080123.R13F
Dissolved Nickel	1	<1	ug/L	20080123.R13F
Dissolved Niobium	1	<1	ug/L	20080123.R13F
Dissolved Rubidium	1	1.1	ug/L	20080123.R13F
Dissolved Scandium	1	1.4	ug/L	20080123.R13F
Dissolved Selenium	1	<1	ug/L	20080123.R13F
Dissolved Silver	0.1	<0.1	ug/L	20080123.R13F
Dissolved Strontium	1	11.3	ug/L	20080123.R13F
Dissolved Thallium	0.1	<0.1	ug/L	20080123.R13F
Dissolved Thorium	1	<1	ug/L	20080123.R13F
Dissolved Tin	1	<1	ug/L	20080123.R13F
Dissolved Titanium	1	<1	ug/L	20080123.R13F
Dissolved Tungsten	1	<1	ug/L	20080123.R13F
Dissolved Uranium	1	<1	ug/L	20080123.R13F
Dissolved Vanadium	1	<1	ug/L	20080123.R13F
Dissolved Yttrium	1	<1	ug/L	20080123.R13F
Dissolved Zinc	1	<1	ug/L	20080123.R13F



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Work Order: 48420

Sample Name: L4-B

Date: 01/16/08

Matrix: Water

Lab #: 156484

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Zirconium	1	<1	ug/L	20080123.R13F

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	45.7	ug/L	20080123.R13G
Total Antimony	0.5	<0.5	ug/L	20080123.R13G
Total Arsenic	1	<1	ug/L	20080123.R13G
Total Barium	1	<1	ug/L	20080123.R13G
Total Beryllium	0.5	<0.5	ug/L	20080123.R13G
Total Bismuth	1	<1	ug/L	20080123.R13G
Total Boron	2	<2	ug/L	20080123.R13G
Total Cadmium	0.1	<0.1	ug/L	20080123.R13G
Total Calcium	500	17300	ug/L	20080123.R13G
Total Cerium	1	<1	ug/L	20080123.R13G
Total Cesium	1	<1	ug/L	20080123.R13G
Total Chromium	1	<1	ug/L	20080123.R13G
Total Cobalt	0.1	<0.1	ug/L	20080123.R13G
Total Copper	1	<1	ug/L	20080123.R13G
Total Europium	1	<1	ug/L	20080123.R13G
Total Gallium	1	<1	ug/L	20080123.R13G
Total Iron	20	<20	ug/L	20080123.R13G
Total Lanthanum	1	<1	ug/L	20080123.R13G
Total Lead	1	<1	ug/L	20080123.R13G
Total Lithium	5	<5	ug/L	20080123.R13G
Total Magnesium	4	2700	ug/L	20080123.R13G
Total Manganese	1	2.8	ug/L	20080123.R13G
Total Mercury	0.1	<0.1	ug/L	20080123.R13G
Total Molybdenum	1	<1	ug/L	20080123.R13G
Total Nickel	1	<1	ug/L	20080123.R13G
Total Niobium	1	<1	ug/L	20080123.R13G
Total Rubidium	1	1.1	ug/L	20080123.R13G
Total Scandium	1	<1	ug/L	20080123.R13G
Total Selenium	1	<1	ug/L	20080123.R13G
Total Silver	0.1	<0.1	ug/L	20080123.R13G
Total Strontium	1	13	ug/L	20080123.R13G
Total Thallium	0.1	<0.1	ug/L	20080123.R13G
Total Thorium	1	<1	ug/L	20080123.R13G
Total Tin	1	<1	ug/L	20080123.R13G
Total Titanium	1	<1	ug/L	20080123.R13G
Total Tungsten	1	<1	ug/L	20080123.R13G
Total Uranium	1	<1	ug/L	20080123.R13G
Total Vanadium	1	<1	ug/L	20080123.R13G
Total Yttrium	1	<1	ug/L	20080123.R13G
Total Zinc	1	<1	ug/L	20080123.R13G
Total Zirconium	1	<1	ug/L	20080123.R13G



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Work Order: 48420

Sample Name: L4-B

Date: 01/16/08

Matrix: Water

Lab #: 156484

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	240	mg/L	20080122.R27B

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	20	mg/L	20080123.R55.2A

TP Water				
Parameter	MDL	Result	Units	QAQCID
Total Phosphorus (as P)	0.002	0.0723	mg/L	20080124.R23.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	<6	mg/L	20080122.R27A

Sample Name: L3-S

Date: 01/16/08

Matrix: Water

Lab #: 156485

ALKA				
Parameter	MDL	Result	Units	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	1.6	63	mg/L	20080122.R1A

AmmoniaFIA				
Parameter	MDL	Result	Units	QAQCID
Ammonia (as N)	0.01	0.12	mg/L	20080123.R42A

Anions Water				
Parameter	MDL	Result	Units	QAQCID
Chloride	0.2	0.33	mg/L	20080123.R5a
Fluoride	0.1	<0.1	mg/L	20080123.R5a
Nitrate (as N)	0.1	<0.1	mg/L	20080123.R5a
Nitrite (as N)	0.03	<0.03	mg/L	20080123.R5a
Sulfate	1	1	mg/L	20080123.R5a

DOC Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Organic Carbon	0.4	23	mg/L	20080123.R55.1A

Hardness/ICP				
Parameter	MDL	Result	Units	QAQCID
Calcium	0.5	22.8	mg/L	20080122.R13D
Magnesium	0.04	2.94	mg/L	20080122.R13D
Total Hardness (as CaCO ₃)	0.1	69	mg/L	20080122.R13D

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Aluminum	1	11.6	ug/L	20080123.R13F
Dissolved Aluminum (Dup)	1	12.2	ug/L	20080123.R13F
Dissolved Antimony	0.5	<0.5	ug/L	20080123.R13F
Dissolved Antimony (Dup)	0.5	<0.5	ug/L	20080123.R13F
Dissolved Arsenic	1	<1	ug/L	20080123.R13F
Dissolved Arsenic (Dup)	1	<1	ug/L	20080123.R13F



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Work Order: 48420

Sample Name: L3-S

Date: 01/16/08

Matrix: Water

Lab #: 156485

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Barium	1	3.7	ug/L	20080123.R13F
Dissolved Barium (Dup)	1	4.2	ug/L	20080123.R13F
Dissolved Beryllium	0.5	<0.5	ug/L	20080123.R13F
Dissolved Beryllium (Dup)	0.5	<0.5	ug/L	20080123.R13F
Dissolved Bismuth	1	<1	ug/L	20080123.R13F
Dissolved Bismuth (Dup)	1	<1	ug/L	20080123.R13F
Dissolved Boron	2	<2	ug/L	20080123.R13F
Dissolved Boron (Dup)	2	<2	ug/L	20080123.R13F
Dissolved Cadmium	0.1	<0.1	ug/L	20080123.R13F
Dissolved Cadmium (Dup)	0.1	<0.1	ug/L	20080123.R13F
Dissolved Calcium	500	13100	ug/L	20080123.R13F
Dissolved Calcium (Dup)	500	14800	ug/L	20080123.R13F
Dissolved Cerium	1	<1	ug/L	20080123.R13F
Dissolved Cerium (Dup)	1	<1	ug/L	20080123.R13F
Dissolved Cesium	1	<1	ug/L	20080123.R13F
Dissolved Cesium (Dup)	1	<1	ug/L	20080123.R13F
Dissolved Chromium	1	<1	ug/L	20080123.R13F
Dissolved Chromium (Dup)	1	<1	ug/L	20080123.R13F
Dissolved Cobalt	0.1	<0.1	ug/L	20080123.R13F
Dissolved Cobalt (Dup)	0.1	<0.1	ug/L	20080123.R13F
Dissolved Copper	1	<1	ug/L	20080123.R13F
Dissolved Copper (Dup)	1	1.1	ug/L	20080123.R13F
Dissolved Europium	1	<1	ug/L	20080123.R13F
Dissolved Europium (Dup)	1	<1	ug/L	20080123.R13F
Dissolved Gallium	1	<1	ug/L	20080123.R13F
Dissolved Gallium (Dup)	1	<1	ug/L	20080123.R13F
Dissolved Iron	20	70	ug/L	20080123.R13F
Dissolved Iron (Dup)	20	86	ug/L	20080123.R13F
Dissolved Lanthanum	1	<1	ug/L	20080123.R13F
Dissolved Lanthanum (Dup)	1	<1	ug/L	20080123.R13F
Dissolved Lead	1	<1	ug/L	20080123.R13F
Dissolved Lead (Dup)	1	<1	ug/L	20080123.R13F
Dissolved Lithium	5	<5	ug/L	20080123.R13F
Dissolved Lithium (Dup)	5	<5	ug/L	20080123.R13F
Dissolved Magnesium	4	1670	ug/L	20080123.R13F
Dissolved Magnesium (Dup)	4	2020	ug/L	20080123.R13F
Dissolved Manganese	1	10.3	ug/L	20080123.R13F
Dissolved Manganese (Dup)	1	12.1	ug/L	20080123.R13F
Dissolved Mercury	0.1	<0.1	ug/L	20080123.R13F
Dissolved Mercury (Dup)	0.1	<0.1	ug/L	20080123.R13F
Dissolved Molybdenum	1	<1	ug/L	20080123.R13F
Dissolved Molybdenum (Dup)	1	<1	ug/L	20080123.R13F
Dissolved Nickel	1	<1	ug/L	20080123.R13F
Dissolved Nickel (Dup)	1	<1	ug/L	20080123.R13F
Dissolved Niobium	1	<1	ug/L	20080123.R13F
Dissolved Niobium (Dup)	1	<1	ug/L	20080123.R13F

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Landore Resources

Work Order: 48420

Sample Name: L3-S

Date: 01/16/08

Matrix: Water

Lab #: 156485

ICPMS Dis. Water				
Parameter	MDL	Result	Units	QAQCID
Dissolved Rubidium	1	<1	ug/L	20080123.R13F
Dissolved Rubidium (Dup)	1	<1	ug/L	20080123.R13F
Dissolved Scandium	1	2	ug/L	20080123.R13F
Dissolved Scandium (Dup)	1	2.7	ug/L	20080123.R13F
Dissolved Selenium	1	<1	ug/L	20080123.R13F
Dissolved Selenium (Dup)	1	<1	ug/L	20080123.R13F
Dissolved Silver	0.1	<0.1	ug/L	20080123.R13F
Dissolved Silver (Dup)	0.1	<0.1	ug/L	20080123.R13F
Dissolved Strontium	1	11.7	ug/L	20080123.R13F
Dissolved Strontium (Dup)	1	13.7	ug/L	20080123.R13F
Dissolved Thallium	0.1	<0.1	ug/L	20080123.R13F
Dissolved Thallium (Dup)	0.1	<0.1	ug/L	20080123.R13F
Dissolved Thorium	1	<1	ug/L	20080123.R13F
Dissolved Thorium (Dup)	1	<1	ug/L	20080123.R13F
Dissolved Tin	1	1.2	ug/L	20080123.R13F
Dissolved Tin (Dup)	1	1.4	ug/L	20080123.R13F
Dissolved Titanium	1	<1	ug/L	20080123.R13F
Dissolved Titanium (Dup)	1	<1	ug/L	20080123.R13F
Dissolved Tungsten	1	<1	ug/L	20080123.R13F
Dissolved Tungsten (Dup)	1	<1	ug/L	20080123.R13F
Dissolved Uranium	1	<1	ug/L	20080123.R13F
Dissolved Uranium (Dup)	1	<1	ug/L	20080123.R13F
Dissolved Vanadium	1	<1	ug/L	20080123.R13F
Dissolved Vanadium (Dup)	1	<1	ug/L	20080123.R13F
Dissolved Yttrium	1	<1	ug/L	20080123.R13F
Dissolved Yttrium (Dup)	1	<1	ug/L	20080123.R13F
Dissolved Zinc	1	<1	ug/L	20080123.R13F
Dissolved Zinc (Dup)	1	2.6	ug/L	20080123.R13F
Dissolved Zirconium	1	<1	ug/L	20080123.R13F
Dissolved Zirconium (Dup)	1	<1	ug/L	20080123.R13F

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Aluminum	1	326	ug/L	20080123.R13G
Total Antimony	0.5	<0.5	ug/L	20080123.R13G
Total Arsenic	1	<1	ug/L	20080123.R13G
Total Barium	1	1.4	ug/L	20080123.R13G
Total Beryllium	0.5	<0.5	ug/L	20080123.R13G
Total Bismuth	1	<1	ug/L	20080123.R13G
Total Boron	2	<2	ug/L	20080123.R13G
Total Cadmium	0.1	<0.1	ug/L	20080123.R13G
Total Calcium	500	28600	ug/L	20080123.R13G
Total Cerium	1	<1	ug/L	20080123.R13G
Total Cesium	1	<1	ug/L	20080123.R13G
Total Chromium	1	<1	ug/L	20080123.R13G
Total Cobalt	0.1	0.24	ug/L	20080123.R13G



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Work Order: 48420

Sample Name: L3-S

Date: 01/16/08

Matrix: Water

Lab #: 156485

ICPMS Tot. Water				
Parameter	MDL	Result	Units	QAQCID
Total Copper	1	20.1	ug/L	20080123.R13G
Total Europium	1	<1	ug/L	20080123.R13G
Total Gallium	1	<1	ug/L	20080123.R13G
Total Iron	20	274	ug/L	20080123.R13G
Total Lanthanum	1	<1	ug/L	20080123.R13G
Total Lead	1	1.4	ug/L	20080123.R13G
Total Lithium	5	<5	ug/L	20080123.R13G
Total Magnesium	4	3160	ug/L	20080123.R13G
Total Manganese	1	30	ug/L	20080123.R13G
Total Mercury	0.1	<0.1	ug/L	20080123.R13G
Total Molybdenum	1	<1	ug/L	20080123.R13G
Total Nickel	1	1.6	ug/L	20080123.R13G
Total Niobium	1	<1	ug/L	20080123.R13G
Total Rubidium	1	1.4	ug/L	20080123.R13G
Total Scandium	1	<1	ug/L	20080123.R13G
Total Selenium	1	<1	ug/L	20080123.R13G
Total Silver	0.1	<0.1	ug/L	20080123.R13G
Total Strontium	1	19.3	ug/L	20080123.R13G
Total Thallium	0.1	<0.1	ug/L	20080123.R13G
Total Thorium	1	<1	ug/L	20080123.R13G
Total Tin	1	45.2	ug/L	20080123.R13G
Total Titanium	1	8	ug/L	20080123.R13G
Total Tungsten	1	<1	ug/L	20080123.R13G
Total Uranium	1	<1	ug/L	20080123.R13G
Total Vanadium	1	<1	ug/L	20080123.R13G
Total Yttrium	1	<1	ug/L	20080123.R13G
Total Zinc	1	18.6	ug/L	20080123.R13G
Total Zirconium	1	<1	ug/L	20080123.R13G

TDS				
Parameter	MDL	Result	Units	QAQCID
Total Dissolved Solids	25	190	mg/L	20080122.R27B

TOC Water				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.4	23	mg/L	20080123.R55.2A

TP Water				
Parameter	MDL	Result	Units	QAQCID
Total Phosphorus (as P)	0.002	0.0622	mg/L	20080124.R23.2A

TSS				
Parameter	MDL	Result	Units	QAQCID
Total Suspended Solids	6	34	mg/L	20080122.R27A



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Work Order: 48420

MDL *Method detection limit or minimum reporting limit.*

% Rec *Surrogate compounds are added to the sample in some cases and the recovery is reported as a percent recovered.*

QAQCID *This is a unique reference to the quality control data set used to generate the reported value.*

Data reported for organic analysis in soil samples are corrected for moisture content

Matrix *If the matrix is a leachate, the sample was extracted according to regulation 558.*

INT *Interferences*

TNTC *Too numerous to count*

ND *Not detected*



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Quality Control Data:

ALKA

100 mg/L Control-Metrohm						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
M-Alkalinity as CaCO ₃ (pH 4.5)	1.6	mg/L	120	100	80	20080122.R1A

AmmoniaFIA

1.0 ppm Control						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Ammonia (as N)	0.01	mg/L	1.2	1	0.8	20080123.R42A

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Ammonia (as N)	0.01	mg/L	0.03	<0.01	<0.01	20080123.R42A

Anions Water

Blank (IC-2)						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Chloride	0.2	mg/L	0.5	<0.2	<0.2	20080123.R5a
Fluoride	0.1	mg/L	0.5	<0.1	<0.1	20080123.R5a
Nitrate (as N)	0.1	mg/L	0.5	<0.1	<0.1	20080123.R5a
Nitrite (as N)	0.03	mg/L	0.5	<0.03	<0.03	20080123.R5a
Sulfate	1	mg/L	1	<1	<1	20080123.R5a

Control (IC-2)						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Chloride	0.2	mg/L	100	91.7	80	20080123.R5a
Fluoride	0.1	mg/L	55	55	45	20080123.R5a
Nitrate (as N)	0.1	mg/L	55	43.6	40	20080123.R5a
Nitrite (as N)	0.03	mg/L	62	53.4	47	20080123.R5a
Sulfate	1	mg/L	100	83.6	78	20080123.R5a

DOC Water

20 ppm Blank Spike						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Organic Carbon	0.4	mg/L	22	21	18	20080123.R55.1A

Method Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Organic Carbon	0.4	mg/L	0.4	<0.4	<0.4	20080123.R55.1A

ICPMS Dis. Water

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Aluminum	1	ug/L	1	<1	<1	20080123.R13F
Dissolved Antimony	1	ug/L	1	<1	<1	20080123.R13F
Dissolved Arsenic	1	ug/L	1	<1	<1	20080123.R13F

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ICPMS Dis. Water

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Barium	1	ug/L	1	<1	<1	20080123.R13F
Dissolved Beryllium	1	ug/L	1	<1	<1	20080123.R13F
Dissolved Bismuth	1	ug/L	1	<1	<1	20080123.R13F
Dissolved Boron	2	ug/L	2	<2	<2	20080123.R13F
Dissolved Cadmium	1	ug/L	1	<1	<1	20080123.R13F
Dissolved Calcium	50	ug/L	50	<50	<50	20080123.R13F
Dissolved Cerium	1	ug/L	1	<1	<1	20080123.R13F
Dissolved Cesium	1	ug/L	1	<1	<1	20080123.R13F
Dissolved Chromium	1	ug/L	1	<1	<1	20080123.R13F
Dissolved Cobalt	1	ug/L	1	<1	<1	20080123.R13F
Dissolved Copper	1	ug/L	1	<1	<1	20080123.R13F
Dissolved Europium	1	ug/L	1	<1	<1	20080123.R13F
Dissolved Gallium	1	ug/L	1	<1	<1	20080123.R13F
Dissolved Iron	20	ug/L	20	<20	<20	20080123.R13F
Dissolved Lanthanum	1	ug/L	1	<1	<1	20080123.R13F
Dissolved Lead	1	ug/L	1	<1	<1	20080123.R13F
Dissolved Lithium	5	ug/L	5	<5	<5	20080123.R13F
Dissolved Magnesium	4	ug/L	4	<4	<4	20080123.R13F
Dissolved Manganese	1	ug/L	1	<1	<1	20080123.R13F
Dissolved Mercury	0.1	ug/L	0.1	<0.1	<0.1	20080123.R13F
Dissolved Molybdenum	1	ug/L	1	<1	<1	20080123.R13F
Dissolved Nickel	1	ug/L	1	<1	<1	20080123.R13F
Dissolved Niobium	1	ug/L	1	<1	<1	20080123.R13F
Dissolved Rubidium	1	ug/L	1	<1	<1	20080123.R13F
Dissolved Scandium	1	ug/L	1	<1	<1	20080123.R13F
Dissolved Selenium	1	ug/L	1	<1	<1	20080123.R13F
Dissolved Silver	5	ug/L	5	<5	<5	20080123.R13F
Dissolved Strontium	1	ug/L	1	<1	<1	20080123.R13F
Dissolved Thallium	1	ug/L	1	<1	<1	20080123.R13F
Dissolved Thorium	1	ug/L	1	<1	<1	20080123.R13F
Dissolved Tin	1	ug/L	1	<1	<1	20080123.R13F
Dissolved Titanium	1	ug/L	1	<1	<1	20080123.R13F
Dissolved Tungsten	1	ug/L	1	<1	<1	20080123.R13F
Dissolved Uranium	1	ug/L	1	<1	<1	20080123.R13F
Dissolved Vanadium	1	ug/L	1	<1	<1	20080123.R13F
Dissolved Yttrium	1	ug/L	1	<1	<1	20080123.R13F
Dissolved Zinc	1	ug/L	1	<1	<1	20080123.R13F
Dissolved Zirconium	1	ug/L	1	<1	<1	20080123.R13F
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Aluminum	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Antimony	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Arsenic	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Barium	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Beryllium	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Bismuth	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Boron	2	ug/L	2	<2	<2	20080130.R13A

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ICPMS Dis. Water

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Cadmium	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Calcium	50	ug/L	50	<50	<50	20080130.R13A
Dissolved Cerium	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Cesium	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Chromium	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Cobalt	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Copper	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Europium	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Gallium	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Iron	20	ug/L	20	<20	<20	20080130.R13A
Dissolved Lanthanum	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Lead	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Lithium	5	ug/L	5	<5	<5	20080130.R13A
Dissolved Magnesium	4	ug/L	4	<4	<4	20080130.R13A
Dissolved Manganese	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Mercury	0.1	ug/L	0.1	<0.1	<0.1	20080130.R13A
Dissolved Molybdenum	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Nickel	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Niobium	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Rubidium	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Scandium	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Selenium	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Silver	5	ug/L	5	<5	<5	20080130.R13A
Dissolved Strontium	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Thallium	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Thorium	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Tin	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Titanium	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Tungsten	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Uranium	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Vanadium	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Yttrium	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Zinc	1	ug/L	1	<1	<1	20080130.R13A
Dissolved Zirconium	1	ug/L	1	<1	<1	20080130.R13A

Blank Spike (1011)						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Aluminum	1	ug/L	600	408	400	20080123.R13F
Dissolved Arsenic	1	ug/L	120	91.2	80	20080123.R13F
Dissolved Barium	1	ug/L	120	103	80	20080123.R13F
Dissolved Beryllium	1	ug/L	125	83.7	75	20080123.R13F
Dissolved Boron	2	ug/L	125	85.3	75	20080123.R13F
Dissolved Cadmium	1	ug/L	120	91.1	80	20080123.R13F
Dissolved Calcium	50	ug/L	1200	955	800	20080123.R13F
Dissolved Chromium	1	ug/L	120	91	80	20080123.R13F
Dissolved Cobalt	1	ug/L	120	89.3	80	20080123.R13F

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ICPMS Dis. Water

Blank Spike (1011)						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Copper	1	ug/L	120	90.1	80	20080123.R13F
Dissolved Iron	20	ug/L	600	484	400	20080123.R13F
Dissolved Lead	1	ug/L	120	100	80	20080123.R13F
Dissolved Magnesium	4	ug/L	1200	807	800	20080123.R13F
Dissolved Manganese	1	ug/L	120	90.9	80	20080123.R13F
Dissolved Molybdenum	1	ug/L	120	90.7	80	20080123.R13F
Dissolved Nickel	1	ug/L	120	85.6	80	20080123.R13F
Dissolved Selenium	1	ug/L	120	90.5	80	20080123.R13F
Dissolved Thallium	1	ug/L	120	99.1	80	20080123.R13F
Dissolved Vanadium	1	ug/L	120	91.2	80	20080123.R13F
Dissolved Zinc	1	ug/L	120	95	80	20080123.R13F
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Dissolved Aluminum	1	ug/L	600	470	400	20080130.R13A
Dissolved Arsenic	1	ug/L	120	99.5	80	20080130.R13A
Dissolved Barium	1	ug/L	120	96.8	80	20080130.R13A
Dissolved Beryllium	1	ug/L	125	98.2	75	20080130.R13A
Dissolved Boron	2	ug/L	125	94.6	75	20080130.R13A
Dissolved Cadmium	1	ug/L	120	103	80	20080130.R13A
Dissolved Calcium	50	ug/L	1200	951	800	20080130.R13A
Dissolved Chromium	1	ug/L	120	99.7	80	20080130.R13A
Dissolved Cobalt	1	ug/L	120	98.9	80	20080130.R13A
Dissolved Copper	1	ug/L	120	97	80	20080130.R13A
Dissolved Iron	20	ug/L	600	526	400	20080130.R13A
Dissolved Lead	1	ug/L	120	101	80	20080130.R13A
Dissolved Magnesium	4	ug/L	1200	942	800	20080130.R13A
Dissolved Manganese	1	ug/L	120	101	80	20080130.R13A
Dissolved Molybdenum	1	ug/L	120	103	80	20080130.R13A
Dissolved Nickel	1	ug/L	120	96.6	80	20080130.R13A
Dissolved Selenium	1	ug/L	120	94.1	80	20080130.R13A
Dissolved Thallium	1	ug/L	120	99.5	80	20080130.R13A
Dissolved Vanadium	1	ug/L	120	102	80	20080130.R13A
Dissolved Zinc	1	ug/L	120	96	80	20080130.R13A

ICPMS Tot. Water

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Aluminum	1	ug/L	1	<1	<1	20080123.R13G
Total Antimony	1	ug/L	1	<1	<1	20080123.R13G
Total Arsenic	1	ug/L	1	<1	<1	20080123.R13G
Total Barium	1	ug/L	1	<1	<1	20080123.R13G
Total Beryllium	1	ug/L	1	<1	<1	20080123.R13G
Total Bismuth	1	ug/L	1	<1	<1	20080123.R13G
Total Boron	2	ug/L	2	<2	<2	20080123.R13G
Total Cadmium	1	ug/L	1	<1	<1	20080123.R13G
Total Cerium	1	ug/L	1	<1	<1	20080123.R13G

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ICPMS Tot. Water

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Cesium	1	ug/L	1	<1	<1	20080123.R13G
Total Chromium	1	ug/L	1	<1	<1	20080123.R13G
Total Cobalt	1	ug/L	1	<1	<1	20080123.R13G
Total Copper	1	ug/L	1	<1	<1	20080123.R13G
Total Europium	1	ug/L	1	<1	<1	20080123.R13G
Total Gallium	1	ug/L	1	<1	<1	20080123.R13G
Total Iron	20	ug/L	20	<20	<20	20080123.R13G
Total Lanthanum	1	ug/L	1	<1	<1	20080123.R13G
Total Lead	1	ug/L	1	<1	<1	20080123.R13G
Total Lithium	5	ug/L	5	<5	<5	20080123.R13G
Total Magnesium	4	ug/L	4	<4	<4	20080123.R13G
Total Manganese	1	ug/L	1	<1	<1	20080123.R13G
Total Mercury	0.1	ug/L	0.1	<0.1	<0.1	20080123.R13G
Total Molybdenum	1	ug/L	1	<1	<1	20080123.R13G
Total Nickel	1	ug/L	1	<1	<1	20080123.R13G
Total Niobium	1	ug/L	1	<1	<1	20080123.R13G
Total Rubidium	1	ug/L	1	<1	<1	20080123.R13G
Total Selenium	1	ug/L	1	<1	<1	20080123.R13G
Total Silver	5	ug/L	5	<5	<5	20080123.R13G
Total Strontium	1	ug/L	1	<1	<1	20080123.R13G
Total Thallium	1	ug/L	1	<1	<1	20080123.R13G
Total Thorium	1	ug/L	1	<1	<1	20080123.R13G
Total Tin	1	ug/L	1	<1	<1	20080123.R13G
Total Tungsten	1	ug/L	1	<1	<1	20080123.R13G
Total Uranium	1	ug/L	1	<1	<1	20080123.R13G
Total Vanadium	1	ug/L	1	<1	<1	20080123.R13G
Total Yttrium	1	ug/L	1	<1	<1	20080123.R13G
Total Zinc	1	ug/L	1	<1	<1	20080123.R13G
Total Zirconium	1	ug/L	1	<1	<1	20080123.R13G
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Aluminum	1	ug/L	1	<1	<1	20080129.R13D
Total Antimony	1	ug/L	1	<1	<1	20080129.R13D
Total Arsenic	1	ug/L	1	<1	<1	20080129.R13D
Total Barium	1	ug/L	1	<1	<1	20080129.R13D
Total Beryllium	1	ug/L	1	<1	<1	20080129.R13D
Total Bismuth	1	ug/L	1	<1	<1	20080129.R13D
Total Boron	2	ug/L	2	<2	<2	20080129.R13D
Total Cadmium	1	ug/L	1	<1	<1	20080129.R13D
Total Cerium	1	ug/L	1	<1	<1	20080129.R13D
Total Cesium	1	ug/L	1	<1	<1	20080129.R13D
Total Chromium	1	ug/L	1	<1	<1	20080129.R13D
Total Cobalt	1	ug/L	1	<1	<1	20080129.R13D
Total Copper	1	ug/L	1	<1	<1	20080129.R13D
Total Europium	1	ug/L	1	<1	<1	20080129.R13D
Total Gallium	1	ug/L	1	<1	<1	20080129.R13D
Total Iron	20	ug/L	20	<20	<20	20080129.R13D

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ICPMS Tot. Water

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Lanthanum	1	ug/L	1	<1	<1	20080129.R13D
Total Lead	1	ug/L	1	<1	<1	20080129.R13D
Total Lithium	5	ug/L	5	<5	<5	20080129.R13D
Total Magnesium	4	ug/L	4	<4	<4	20080129.R13D
Total Manganese	1	ug/L	1	<1	<1	20080129.R13D
Total Mercury	0.1	ug/L	0.1	<0.1	<0.1	20080129.R13D
Total Molybdenum	1	ug/L	1	<1	<1	20080129.R13D
Total Nickel	1	ug/L	1	<1	<1	20080129.R13D
Total Niobium	1	ug/L	1	<1	<1	20080129.R13D
Total Rubidium	1	ug/L	1	<1	<1	20080129.R13D
Total Selenium	1	ug/L	1	<1	<1	20080129.R13D
Total Silver	5	ug/L	5	<5	<5	20080129.R13D
Total Strontium	1	ug/L	1	<1	<1	20080129.R13D
Total Thallium	1	ug/L	1	<1	<1	20080129.R13D
Total Thorium	1	ug/L	1	<1	<1	20080129.R13D
Total Tin	1	ug/L	1	<1	<1	20080129.R13D
Total Tungsten	1	ug/L	1	<1	<1	20080129.R13D
Total Uranium	1	ug/L	1	<1	<1	20080129.R13D
Total Vanadium	1	ug/L	1	<1	<1	20080129.R13D
Total Yttrium	1	ug/L	1	<1	<1	20080129.R13D
Total Zinc	1	ug/L	1	<1	<1	20080129.R13D
Total Zirconium	1	ug/L	1	<1	<1	20080129.R13D
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Aluminum	1	ug/L	1	<1	<1	20080130.R13B
Total Antimony	1	ug/L	1	<1	<1	20080130.R13B
Total Arsenic	1	ug/L	1	<1	<1	20080130.R13B
Total Barium	1	ug/L	1	<1	<1	20080130.R13B
Total Beryllium	1	ug/L	1	<1	<1	20080130.R13B
Total Bismuth	1	ug/L	1	<1	<1	20080130.R13B
Total Boron	2	ug/L	2	<2	<2	20080130.R13B
Total Cadmium	1	ug/L	1	<1	<1	20080130.R13B
Total Cerium	1	ug/L	1	<1	<1	20080130.R13B
Total Cesium	1	ug/L	1	<1	<1	20080130.R13B
Total Chromium	1	ug/L	1	<1	<1	20080130.R13B
Total Cobalt	1	ug/L	1	<1	<1	20080130.R13B
Total Copper	1	ug/L	1	<1	<1	20080130.R13B
Total Europium	1	ug/L	1	<1	<1	20080130.R13B
Total Gallium	1	ug/L	1	<1	<1	20080130.R13B
Total Iron	20	ug/L	20	<20	<20	20080130.R13B
Total Lanthanum	1	ug/L	1	<1	<1	20080130.R13B
Total Lead	1	ug/L	1	<1	<1	20080130.R13B
Total Lithium	5	ug/L	5	<5	<5	20080130.R13B
Total Magnesium	4	ug/L	4	<4	<4	20080130.R13B
Total Manganese	1	ug/L	1	<1	<1	20080130.R13B
Total Mercury	0.1	ug/L	0.1	<0.1	<0.1	20080130.R13B
Total Molybdenum	1	ug/L	1	<1	<1	20080130.R13B

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ICPMS Tot. Water

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Nickel	1	ug/L	1	<1	<1	20080130.R13B
Total Niobium	1	ug/L	1	<1	<1	20080130.R13B
Total Rubidium	1	ug/L	1	<1	<1	20080130.R13B
Total Selenium	1	ug/L	1	<1	<1	20080130.R13B
Total Silver	5	ug/L	5	<5	<5	20080130.R13B
Total Strontium	1	ug/L	1	<1	<1	20080130.R13B
Total Thallium	1	ug/L	1	<1	<1	20080130.R13B
Total Thorium	1	ug/L	1	<1	<1	20080130.R13B
Total Tin	1	ug/L	1	<1	<1	20080130.R13B
Total Tungsten	1	ug/L	1	<1	<1	20080130.R13B
Total Uranium	1	ug/L	1	<1	<1	20080130.R13B
Total Vanadium	1	ug/L	1	<1	<1	20080130.R13B
Total Yttrium	1	ug/L	1	<1	<1	20080130.R13B
Total Zinc	1	ug/L	1	<1	<1	20080130.R13B
Total Zirconium	1	ug/L	1	<1	<1	20080130.R13B

Blank Spike (1011)						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Aluminum	1	ug/L	600	455	400	20080123.R13G
Total Arsenic	1	ug/L	120	101	80	20080123.R13G
Total Barium	1	ug/L	120	102	80	20080123.R13G
Total Beryllium	1	ug/L	125	90.4	75	20080123.R13G
Total Boron	2	ug/L	125	93.2	75	20080123.R13G
Total Cadmium	1	ug/L	120	94.6	80	20080123.R13G
Total Calcium	50	ug/L	1200	1020	800	20080123.R13G
Total Chromium	1	ug/L	120	96.8	80	20080123.R13G
Total Cobalt	1	ug/L	120	96.1	80	20080123.R13G
Total Copper	1	ug/L	120	101	80	20080123.R13G
Total Iron	20	ug/L	600	583	400	20080123.R13G
Total Lead	1	ug/L	120	101	80	20080123.R13G
Total Magnesium	4	ug/L	1200	896	800	20080123.R13G
Total Manganese	1	ug/L	120	99.7	80	20080123.R13G
Total Molybdenum	1	ug/L	120	101	80	20080123.R13G
Total Nickel	1	ug/L	120	91.8	80	20080123.R13G
Total Selenium	1	ug/L	120	95.3	80	20080123.R13G
Total Thallium	1	ug/L	120	101	80	20080123.R13G
Total Vanadium	1	ug/L	120	99.2	80	20080123.R13G
Total Zinc	1	ug/L	120	98.7	80	20080123.R13G
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Aluminum	1	ug/L	600	588	400	20080129.R13D
Total Arsenic	1	ug/L	120	99.8	80	20080129.R13D
Total Barium	1	ug/L	120	97.8	80	20080129.R13D
Total Beryllium	1	ug/L	125	100	75	20080129.R13D
Total Boron	2	ug/L	125	100	75	20080129.R13D
Total Cadmium	1	ug/L	120	95.8	80	20080129.R13D
Total Calcium	50	ug/L	1200	1010	800	20080129.R13D

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ICPMS Tot. Water

Blank Spike (1011)						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Chromium	1	ug/L	120	98.7	80	20080129.R13D
Total Cobalt	1	ug/L	120	99.1	80	20080129.R13D
Total Copper	1	ug/L	120	100	80	20080129.R13D
Total Iron	20	ug/L	600	542	400	20080129.R13D
Total Lead	1	ug/L	120	98	80	20080129.R13D
Total Magnesium	4	ug/L	1200	1140	800	20080129.R13D
Total Manganese	1	ug/L	120	101	80	20080129.R13D
Total Molybdenum	1	ug/L	120	103	80	20080129.R13D
Total Nickel	1	ug/L	120	102	80	20080129.R13D
Total Selenium	1	ug/L	120	103	80	20080129.R13D
Total Thallium	1	ug/L	120	96.5	80	20080129.R13D
Total Vanadium	1	ug/L	120	100	80	20080129.R13D
Total Zinc	1	ug/L	120	82.2	80	20080129.R13D
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Aluminum	1	ug/L	600	470	400	20080130.R13B
Total Arsenic	1	ug/L	120	99.5	80	20080130.R13B
Total Barium	1	ug/L	120	96.8	80	20080130.R13B
Total Beryllium	1	ug/L	125	98.2	75	20080130.R13B
Total Boron	2	ug/L	125	94.6	75	20080130.R13B
Total Cadmium	1	ug/L	120	103	80	20080130.R13B
Total Calcium	50	ug/L	1200	951	800	20080130.R13B
Total Chromium	1	ug/L	120	99.7	80	20080130.R13B
Total Cobalt	1	ug/L	120	98.9	80	20080130.R13B
Total Copper	1	ug/L	120	97	80	20080130.R13B
Total Iron	20	ug/L	600	526	400	20080130.R13B
Total Lead	1	ug/L	120	101	80	20080130.R13B
Total Magnesium	4	ug/L	1200	942	800	20080130.R13B
Total Manganese	1	ug/L	120	101	80	20080130.R13B
Total Molybdenum	1	ug/L	120	103	80	20080130.R13B
Total Nickel	1	ug/L	120	96.6	80	20080130.R13B
Total Selenium	1	ug/L	120	94.1	80	20080130.R13B
Total Thallium	1	ug/L	120	99.5	80	20080130.R13B
Total Vanadium	1	ug/L	120	102	80	20080130.R13B
Total Zinc	1	ug/L	120	96	80	20080130.R13B

ICPMS Water

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Calcium	0.1	ug/L	0.1	<0.1	<0.1	20080122.R13D
Magnesium	4	ug/L	4	<4	<4	20080122.R13D

Blank Spike (1011)						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Calcium	50	ug/L	1200	1080	800	20080122.R13D
Magnesium	4	ug/L	1200	964	800	20080122.R13D

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TDS

200 mg/L Control						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Dissolved Solids	25	mg/L	240	180	160	20080122.R27B

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Dissolved Solids	25	mg/L	<25	<25	<25	20080122.R27B

TOC Water

20 ppm Blank Spike						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Organic Carbon	0.4	mg/L	22	21	18	20080123.R55.2A

Method Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Organic Carbon	0.4	mg/L	0.4	<0.4	<0.4	20080123.R55.2A

TP Water

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0.005	<0.002	<0.002	20080124.R23.2A

Control (0.05 mg/L)						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Phosphorus (as P)	0.002	mg/L	0.06	0.0571	0.04	20080124.R23.2A

TSS

160 mg/L Control						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Suspended Solids	6	mg/L	192	152	128	20080122.R27A

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Suspended Solids	6	mg/L	<6	<6	<6	20080122.R27A

UCL Upper Control Limit

LCL Lower Control Limit



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(Revised) Analytical Report

Client:	Jay Dickison	Work Order Number:	35889
Company:	Golder Associates Ltd.- Sudbury	Date Order Received:	6/11/2007
Address:	1010 Lorne Street Sudbury, Ontario, P3C 4R9	Regulation:	PSQG
Phone:	(705) 524-6861	PO #:	
Fax:	(705) 524-1984	Project #:	Laudore Resources
Email:	jay_dickison@golder.com		
	Regulation: Sediment Quality G.		

Supersedes report printed :6/29/2007

Analyses were performed on the following samples submitted with your order.

The results relate only to the items tested.

Sample Name	Lab #	Matrix	Type	Comments	Date Collected	Time Collected
L2	123852	Sediment	Grab		6/5/2007	
L3	123853	Sediment	Grab		6/5/2007	
L4	123854	Sediment	Grab		6/5/2007	
R2	123855	Sediment	Grab		6/5/2007	
R3	123856	Sediment	Grab		6/5/2007	

The following instrumentation and references methods were used for your sample(s)

Method Name	Description	Reference
ICPMS Soil	Determination of Metals in Soil by ICP/MS with Aqua Regia Digest Instrument group: Perkin Elmer Elan 5000	Mod. SW846-6020
pHSOIL	Determination of soil pH by ion selective electrode Instrument group: Fisher Scientific Model 915 pH Meter	Mod. APHA-4500
TOC Sediment	Determination of Total Organic Carbon in Sediment Instrument group: Leco TOC Analyzer	APHA

This report has been approved by:

Dr. Xiaojing Li
Chief Chemist

Dr. Robert Hamel
Inorganic Section Head



TESTMARK Laboratories Ltd.

Committed to Quality and Service

Golder Associates Ltd. - Sudbury

Work Order: 35889

Sample Data:

Sample Name: L2

Date: 6/5/2007

Matrix: Sediment

Lab #: 123852

ICPMS Soil				
Parameter	MDL	Result	Units	QAQCID
Aluminum	4.8	11200	µg/g	20070629.R13A
Antimony	0.48	1.2	µg/g	20070629.R13A
Arsenic	0.48	66.7	µg/g	20070629.R13A
Barium	4.8	634	µg/g	20070629.R13A
Beryllium	0.48	<0.48	µg/g	20070629.R13A
Bismuth	0.48	0.58	µg/g	20070629.R13A
Cadmium	0.048	1.45	µg/g	20070629.R13A
Calcium	240	9660	µg/g	20070629.R13A
Cerium	0.48	57.8	µg/g	20070629.R13A
Cesium	0.48	1.2	µg/g	20070629.R13A
Chromium	0.48	31.8	µg/g	20070629.R13A
Cobalt	0.048	10	µg/g	20070629.R13A
Copper	0.48	46.3	µg/g	20070629.R13A
Europium	0.48	1.8	µg/g	20070629.R13A
Gallium	0.48	15	µg/g	20070629.R13A
Iron	95	42300	µg/g	20070629.R13A
Lanthanum	0.48	54.9	µg/g	20070629.R13A
Lead	0.48	45.9	µg/g	20070629.R13A
Lithium	2.4	9.8	µg/g	20070629.R13A
Magnesium	1.9	3810	µg/g	20070629.R13A
Manganese	4.8	11100	µg/g	20070629.R13A
Mercury	0.048	0.633	µg/g	20070629.R13A
Molybdenum	0.48	9.01	µg/g	20070629.R13A
Nickel	0.48	41.9	µg/g	20070629.R13A
Niobium	0.48	0.78	µg/g	20070629.R13A
Phosphorus	240	3700	µg/g	20070629.R13A
Rubidium	0.48	9.93	µg/g	20070629.R13A
Scandium	0.48	2.8	µg/g	20070629.R13A
Selenium	0.48	<0.48	µg/g	20070629.R13A
Silver	0.48	<0.48	µg/g	20070629.R13A
Strontium	0.48	21.3	µg/g	20070629.R13A
Thallium	0.48	<0.48	µg/g	20070629.R13A
Thorium	0.48	2.9	µg/g	20070629.R13A
Tin	0.48	1	µg/g	20070629.R13A
Titanium	4.8	263	µg/g	20070629.R13A
Tungsten	0.48	1.7	µg/g	20070629.R13A
Uranium	0.48	7.87	µg/g	20070629.R13A
Vanadium	0.48	39.9	µg/g	20070629.R13A
Yttrium	0.48	19.4	µg/g	20070629.R13A
Zinc	4.8	134	µg/g	20070629.R13A
Zirconium	0.48	5.87	µg/g	20070629.R13A

pHSOIL				
Parameter	MDL	Result	Units	QAQCID
pH	N/A	6.79	pH	20070627.R2A

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Work Order: 35889

Sample Name: L2 **Date: 6/5/2007** **Matrix: Sediment** **Lab #: 123852**

pHSOIL				
Parameter	MDL	Result	Units	QAQCID
TOC Sediment				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.05	14.9	%	20070622.R55A

Sample Name: L3 **Date: 6/5/2007** **Matrix: Sediment** **Lab #: 123853**

ICPMS Soil				
Parameter	MDL	Result	Units	QAQCID
Aluminum	11	6640	µg/g	20070629.R13A
Antimony	1.1	<1.1	µg/g	20070629.R13A
Arsenic	1.1	<1.1	µg/g	20070629.R13A
Barium	1.1	39.5	µg/g	20070629.R13A
Beryllium	1.1	<1.1	µg/g	20070629.R13A
Bismuth	1.1	<1.1	µg/g	20070629.R13A
Cadmium	0.11	0.34	µg/g	20070629.R13A
Calcium	550	12500	µg/g	20070629.R13A
Cerium	1.1	16.8	µg/g	20070629.R13A
Cesium	1.1	<1.1	µg/g	20070629.R13A
Chromium	1.1	8.6	µg/g	20070629.R13A
Cobalt	0.11	3.07	µg/g	20070629.R13A
Copper	1.1	89	µg/g	20070629.R13A
Europium	1.1	<1.1	µg/g	20070629.R13A
Gallium	1.1	1.6	µg/g	20070629.R13A
Iron	220	5040	µg/g	20070629.R13A
Lanthanum	1.1	16.5	µg/g	20070629.R13A
Lead	1.1	5.3	µg/g	20070629.R13A
Lithium	5.5	<5.5	µg/g	20070629.R13A
Magnesium	4.4	1790	µg/g	20070629.R13A
Manganese	1.1	81.9	µg/g	20070629.R13A
Mercury	0.11	0.13	µg/g	20070629.R13A
Molybdenum	1.1	2.5	µg/g	20070629.R13A
Nickel	1.1	19.1	µg/g	20070629.R13A
Niobium	1.1	<1.1	µg/g	20070629.R13A
Phosphorus	55	380	µg/g	20070629.R13A
Rubidium	1.1	5.3	µg/g	20070629.R13A
Scandium	1.1	<1.1	µg/g	20070629.R13A
Selenium	1.1	<1.1	µg/g	20070629.R13A
Silver	1.1	<1.1	µg/g	20070629.R13A
Strontium	1.1	12.3	µg/g	20070629.R13A
Thallium	1.1	<1.1	µg/g	20070629.R13A
Thorium	1.1	1.2	µg/g	20070629.R13A
Tin	1.1	<1.1	µg/g	20070629.R13A
Titanium	1.1	160	µg/g	20070629.R13A
Tungsten	1.1	<1.1	µg/g	20070629.R13A
Uranium	1.1	<1.1	µg/g	20070629.R13A
Vanadium	1.1	<1.1	µg/g	20070629.R13A

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Golder Associates Ltd. - Sudbury

Work Order: 35889

Sample Name: L3

Date: 6/5/2007

Matrix: Sediment

Lab #: 123853

ICPMS Soil				
Parameter	MDL	Result	Units	QAQCID
Yttrium	1.1	8.5	µg/g	20070629.R13A
Zinc	1.1	48.2	µg/g	20070629.R13A
Zirconium	1.1	11	µg/g	20070629.R13A

pHSOIL				
Parameter	MDL	Result	Units	QAQCID
pH	N/A	6.79	pH	20070627.R2A

TOC Sediment				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.05	16.6	%	20070622.R55A

Sample Name: L4

Date: 6/5/2007

Matrix: Sediment

Lab #: 123854

ICPMS Soil				
Parameter	MDL	Result	Units	QAQCID
Aluminum	4.7	12900	µg/g	20070629.R13A
Antimony	0.47	<0.47	µg/g	20070629.R13A
Arsenic	0.47	1.1	µg/g	20070629.R13A
Barium	0.47	66.9	µg/g	20070629.R13A
Beryllium	0.47	<0.47	µg/g	20070629.R13A
Bismuth	0.47	<0.47	µg/g	20070629.R13A
Cadmium	0.047	0.42	µg/g	20070629.R13A
Calcium	240	6400	µg/g	20070629.R13A
Cerium	0.47	51.8	µg/g	20070629.R13A
Cesium	0.47	1.3	µg/g	20070629.R13A
Chromium	0.47	34.6	µg/g	20070629.R13A
Cobalt	0.047	8.66	µg/g	20070629.R13A
Copper	0.47	18.3	µg/g	20070629.R13A
Europium	0.47	0.74	µg/g	20070629.R13A
Gallium	0.47	5.21	µg/g	20070629.R13A
Iron	94	19500	µg/g	20070629.R13A
Lanthanum	0.47	26.4	µg/g	20070629.R13A
Lead	0.47	16	µg/g	20070629.R13A
Lithium	2.4	19	µg/g	20070629.R13A
Magnesium	19	6030	µg/g	20070629.R13A
Manganese	4.7	611	µg/g	20070629.R13A
Mercury	0.047	0.18	µg/g	20070629.R13A
Molybdenum	0.47	<0.47	µg/g	20070629.R13A
Nickel	0.47	23.7	µg/g	20070629.R13A
Niobium	0.47	2.1	µg/g	20070629.R13A
Phosphorus	24	896	µg/g	20070629.R13A
Rubidium	0.47	13.9	µg/g	20070629.R13A
Scandium	0.47	2.3	µg/g	20070629.R13A
Selenium	0.47	<0.47	µg/g	20070629.R13A
Silver	0.47	<0.47	µg/g	20070629.R13A
Strontium	0.47	17.7	µg/g	20070629.R13A



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Work Order: 35889

Sample Name: L4

Date: 6/5/2007

Matrix: Sediment

Lab #: 123854

ICPMS Soil				
Parameter	MDL	Result	Units	QAQCID
Thallium	0.47	<0.47	µg/g	20070629.R13A
Thorium	0.47	5.71	µg/g	20070629.R13A
Tin	0.47	0.55	µg/g	20070629.R13A
Titanium	4.7	935	µg/g	20070629.R13A
Tungsten	0.47	<0.47	µg/g	20070629.R13A
Uranium	0.47	1.5	µg/g	20070629.R13A
Vanadium	0.47	32.5	µg/g	20070629.R13A
Yttrium	0.47	11.1	µg/g	20070629.R13A
Zinc	0.47	64.2	µg/g	20070629.R13A
Zirconium	0.47	8.43	µg/g	20070629.R13A

pHSOIL				
Parameter	MDL	Result	Units	QAQCID
pH	N/A	6.43	pH	20070627.R2A

TOC Sediment				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.05	4.52	%	20070622.R55A

Sample Name: R2

Date: 6/5/2007

Matrix: Sediment

Lab #: 123855

ICPMS Soil				
Parameter	MDL	Result	Units	QAQCID
Aluminum	4.8	4440	µg/g	20070629.R13A
Antimony	0.48	<0.48	µg/g	20070629.R13A
Arsenic	0.48	<0.48	µg/g	20070629.R13A
Barium	0.48	25.2	µg/g	20070629.R13A
Beryllium	0.48	<0.48	µg/g	20070629.R13A
Bismuth	0.48	<0.48	µg/g	20070629.R13A
Cadmium	0.048	0.31	µg/g	20070629.R13A
Calcium	240	8220	µg/g	20070629.R13A
Cerium	0.48	18.8	µg/g	20070629.R13A
Cesium	0.48	<0.48	µg/g	20070629.R13A
Chromium	0.48	10.7	µg/g	20070629.R13A
Cobalt	0.048	3.29	µg/g	20070629.R13A
Copper	0.48	18.5	µg/g	20070629.R13A
Europium	0.48	<0.48	µg/g	20070629.R13A
Gallium	0.48	1.9	µg/g	20070629.R13A
Iron	96	5790	µg/g	20070629.R13A
Lanthanum	0.48	12.5	µg/g	20070629.R13A
Lead	0.48	4.4	µg/g	20070629.R13A
Lithium	2.4	5.6	µg/g	20070629.R13A
Magnesium	1.9	2860	µg/g	20070629.R13A
Manganese	0.48	111	µg/g	20070629.R13A
Mercury	0.048	0.053	µg/g	20070629.R13A
Molybdenum	0.48	0.92	µg/g	20070629.R13A
Nickel	0.48	11.7	µg/g	20070629.R13A



TESTMARK Laboratories Ltd.

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Golder Associates Ltd. - Sudbury

Work Order: 35889

Sample Name: R2

Date: 6/5/2007

Matrix: Sediment

Lab #: 123855

ICPMS Soil				
Parameter	MDL	Result	Units	QAQCID
Niobium	0.48	0.9	µg/g	20070629.R13A
Phosphorus	24	440	µg/g	20070629.R13A
Rubidium	0.48	2.6	µg/g	20070629.R13A
Scandium	0.48	0.75	µg/g	20070629.R13A
Selenium	0.48	<0.48	µg/g	20070629.R13A
Silver	0.48	<0.48	µg/g	20070629.R13A
Strontium	0.48	11.9	µg/g	20070629.R13A
Thallium	0.48	<0.48	µg/g	20070629.R13A
Thorium	0.48	1.6	µg/g	20070629.R13A
Tin	0.48	<0.48	µg/g	20070629.R13A
Titanium	4.8	323	µg/g	20070629.R13A
Tungsten	0.48	2.6	µg/g	20070629.R13A
Uranium	0.48	2.3	µg/g	20070629.R13A
Vanadium	0.48	6.77	µg/g	20070629.R13A
Yttrium	0.48	5.45	µg/g	20070629.R13A
Zinc	0.48	25.7	µg/g	20070629.R13A
Zirconium	0.48	6.15	µg/g	20070629.R13A

pHSOIL				
Parameter	MDL	Result	Units	QAQCID
pH	N/A	6.76	pH	20070627.R2A

TOC Sediment				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.05	9.67	%	20070622.R55A
Total Organic Carbon (Dup)	0.05	9.37	%	20070622.R55A

Sample Name: R3

Date: 6/5/2007

Matrix: Sediment

Lab #: 123856

ICPMS Soil				
Parameter	MDL	Result	Units	QAQCID
Aluminum	4.9	5320	µg/g	20070629.R13A
Aluminum (Dup)	4.6	5220	µg/g	20070629.R13A
Antimony	0.49	<0.49	µg/g	20070629.R13A
Antimony (Dup)	0.46	<0.46	µg/g	20070629.R13A
Arsenic	0.49	0.93	µg/g	20070629.R13A
Arsenic (Dup)	0.46	1.1	µg/g	20070629.R13A
Barium	0.49	19.3	µg/g	20070629.R13A
Barium (Dup)	0.46	19.9	µg/g	20070629.R13A
Beryllium	0.49	<0.49	µg/g	20070629.R13A
Beryllium (Dup)	0.46	<0.46	µg/g	20070629.R13A
Bismuth	0.49	<0.49	µg/g	20070629.R13A
Bismuth (Dup)	0.46	<0.46	µg/g	20070629.R13A
Cadmium	0.049	0.079	µg/g	20070629.R13A
Cadmium (Dup)	0.046	0.056	µg/g	20070629.R13A
Calcium	240	8120	µg/g	20070629.R13A
Calcium (Dup)	230	7580	µg/g	20070629.R13A



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Golder Associates Ltd. - Sudbury

Work Order: 35889

Sample Name: R3

Date: 6/5/2007

Matrix: Sediment

Lab #: 123856

ICPMS Soil				
Parameter	MDL	Result	Units	QAQCID
Cerium	0.49	18.2	µg/g	20070629.R13A
Cerium (Dup)	0.46	18.4	µg/g	20070629.R13A
Cesium	0.49	0.53	µg/g	20070629.R13A
Cesium (Dup)	0.46	<0.46	µg/g	20070629.R13A
Chromium	0.49	12.3	µg/g	20070629.R13A
Chromium (Dup)	0.46	11.7	µg/g	20070629.R13A
Cobalt	0.049	3.97	µg/g	20070629.R13A
Cobalt (Dup)	0.046	3.78	µg/g	20070629.R13A
Copper	0.49	12	µg/g	20070629.R13A
Copper (Dup)	0.46	12	µg/g	20070629.R13A
Europium	0.49	<0.49	µg/g	20070629.R13A
Europium (Dup)	0.46	<0.46	µg/g	20070629.R13A
Gallium	0.49	2.2	µg/g	20070629.R13A
Gallium (Dup)	0.46	2.1	µg/g	20070629.R13A
Iron	97	7660	µg/g	20070629.R13A
Iron (Dup)	92	7600	µg/g	20070629.R13A
Lanthanum	0.49	9.25	µg/g	20070629.R13A
Lanthanum (Dup)	0.46	9.25	µg/g	20070629.R13A
Lead	0.49	2.2	µg/g	20070629.R13A
Lead (Dup)	0.46	2.1	µg/g	20070629.R13A
Lithium	2.4	7.7	µg/g	20070629.R13A
Lithium (Dup)	2.3	7.4	µg/g	20070629.R13A
Magnesium	1.9	4660	µg/g	20070629.R13A
Magnesium (Dup)	1.8	4420	µg/g	20070629.R13A
Manganese	4.9	314	µg/g	20070629.R13A
Manganese (Dup)	4.6	307	µg/g	20070629.R13A
Mercury	0.049	<0.049	µg/g	20070629.R13A
Mercury (Dup)	0.046	<0.046	µg/g	20070629.R13A
Molybdenum	0.49	<0.49	µg/g	20070629.R13A
Molybdenum (Dup)	0.46	<0.46	µg/g	20070629.R13A
Nickel	0.49	10.3	µg/g	20070629.R13A
Nickel (Dup)	0.46	9.77	µg/g	20070629.R13A
Niobium	0.49	0.98	µg/g	20070629.R13A
Niobium (Dup)	0.46	0.93	µg/g	20070629.R13A
Phosphorus	24	396	µg/g	20070629.R13A
Phosphorus (Dup)	23	357	µg/g	20070629.R13A
Rubidium	0.49	4.7	µg/g	20070629.R13A
Rubidium (Dup)	0.46	4.4	µg/g	20070629.R13A
Scandium	0.49	0.8	µg/g	20070629.R13A
Scandium (Dup)	0.46	0.7	µg/g	20070629.R13A
Selenium	0.49	<0.49	µg/g	20070629.R13A
Selenium (Dup)	0.46	<0.46	µg/g	20070629.R13A
Silver	0.49	<0.49	µg/g	20070629.R13A
Silver (Dup)	0.46	<0.46	µg/g	20070629.R13A
Strontium	0.49	10.4	µg/g	20070629.R13A
Strontium (Dup)	0.46	10.2	µg/g	20070629.R13A

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Golder Associates Ltd. - Sudbury

Work Order: 35889

Sample Name: R3

Date: 6/5/2007

Matrix: Sediment

Lab #: 123856

ICPMS Soil				
Parameter	MDL	Result	Units	QAQCID
Thallium	0.49	<0.49	µg/g	20070629.R13A
Thallium (Dup)	0.46	<0.46	µg/g	20070629.R13A
Thorium	0.49	1.5	µg/g	20070629.R13A
Thorium (Dup)	0.46	1.6	µg/g	20070629.R13A
Tin	0.49	<0.49	µg/g	20070629.R13A
Tin (Dup)	0.46	<0.46	µg/g	20070629.R13A
Titanium	4.9	409	µg/g	20070629.R13A
Titanium (Dup)	4.6	405	µg/g	20070629.R13A
Tungsten	0.49	<0.49	µg/g	20070629.R13A
Tungsten (Dup)	0.46	<0.46	µg/g	20070629.R13A
Uranium	0.49	0.68	µg/g	20070629.R13A
Uranium (Dup)	0.46	0.7	µg/g	20070629.R13A
Vanadium	0.49	11.4	µg/g	20070629.R13A
Vanadium (Dup)	0.46	11	µg/g	20070629.R13A
Yttrium	0.49	3.8	µg/g	20070629.R13A
Yttrium (Dup)	0.46	3.7	µg/g	20070629.R13A
Zinc	0.49	21.9	µg/g	20070629.R13A
Zinc (Dup)	0.46	22	µg/g	20070629.R13A
Zirconium	0.49	3.5	µg/g	20070629.R13A
Zirconium (Dup)	0.46	3.5	µg/g	20070629.R13A

pHSOIL				
Parameter	MDL	Result	Units	QAQCID
pH	N/A	7.01	pH	20070627.R2A

TOC Sediment				
Parameter	MDL	Result	Units	QAQCID
Total Organic Carbon	0.05	1.86	%	20070622.R55A



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Work Order: 35889

MDL *Method detection limit or minimum reporting limit.*

% Rec *Surrogate compounds are added to the sample in some cases and the recovery is reported as a percent recovered.*

QAQCID *This is a unique reference to the quality control data set used to generate the reported value.*

Data reported for organic analysis in soil samples are corrected for moisture content

Matrix *If the matrix is a leachate, the sample was extracted according to regulation 558.*

INT *Interferences*

TNTC *Too numerous to count*

ND *Not detected*



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Work Order: 35889

Quality Control Data:

ICPMS Soil

5 ppm Cal. Check

Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Aluminum	0.05	µg/g	30	24.9	20	20070629.R13A
Arsenic	0.05	µg/g	6	4.63	4	20070629.R13A
Barium	0.05	µg/g	6	4.86	4	20070629.R13A
Beryllium	0.05	µg/g	6.25	4.67	3.75	20070629.R13A
Cadmium	0.05	µg/g	6	4.59	4	20070629.R13A
Calcium	2.5	µg/g	60	46.9	40	20070629.R13A
Chromium	0.05	µg/g	6	4.8	4	20070629.R13A
Cobalt	0.05	µg/g	6	4.77	4	20070629.R13A
Copper	0.05	µg/g	6	4.59	4	20070629.R13A
Iron	1	µg/g	30	26.3	20	20070629.R13A
Lead	0.05	µg/g	6	4.76	4	20070629.R13A
Magnesium	0.2	µg/g	60	50.5	40	20070629.R13A
Manganese	0.05	µg/g	6	4.81	4	20070629.R13A
Molybdenum	0.05	µg/g	6	4.89	4	20070629.R13A
Nickel	0.05	µg/g	6	4.74	4	20070629.R13A
Selenium	0.05	µg/g	6	4.53	4	20070629.R13A
Thallium	0.05	µg/g	6	4.9	4	20070629.R13A
Vanadium	0.05	µg/g	6	4.71	4	20070629.R13A
Zinc	0.05	µg/g	6	4.12	4	20070629.R13A

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Aluminum	0.2	µg/g	0.2	<0.2	<0.2	20070629.R13A
Antimony	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A
Arsenic	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A
Barium	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A
Beryllium	0.25	µg/g	0.25	<0.25	<0.25	20070629.R13A
Bismuth	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A
Cadmium	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A
Calcium	0.25	µg/g	0.25	<0.25	<0.25	20070629.R13A
Cerium	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A
Cesium	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A
Chromium	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A
Cobalt	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A
Copper	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A
Europium	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A
Gallium	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A
Iron	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A
Lanthanum	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A
Lead	0.005	µg/g	0.05	<0.005	<0.005	20070629.R13A
Magnesium	0.1	µg/g	0.1	<0.1	<0.1	20070629.R13A
Manganese	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A
Mercury	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A
Molybdenum	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A



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Work Order: 35889

ICPMS Soil

Blank						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Nickel	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A
Niobium	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A
Rubidium	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A
Scandium	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A
Selenium	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A
Silver	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A
Strontium	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A
Thallium	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A
Thorium	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A
Tin	0.25	µg/g	0.25	<0.25	<0.25	20070629.R13A
Titanium	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A
Tungsten	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A
Uranium	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A
Vanadium	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A
Yttrium	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A
Zinc	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A
Zirconium	0.05	µg/g	0.05	<0.05	<0.05	20070629.R13A

pH SOIL

pH 7						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
pH	N/A	pH	7.15	6.99	6.85	20070627.R2A

TOC Soil

KHP (47%-C)						
Parameter	MDL	Units	UCL	Result	LCL	QAQCID
Total Organic Carbon	1	%	52	51.6	42	20070622.R55A

UCL Upper Control Limit

LCL Lower Control Limit

APPENDIX D
SEDIMENT QUALITY RESULTS

Parameter	Units	MDL	PSQG		5-Jun-07				
					Ketchikan L.	Juno L.	Juneau L.	Stream	Stream
			LEL	SEL	L2	L3	L4	R2	R3
Aluminum	µg/g	11	-	-	11000	6600	13000	4400	5300
Antimony	µg/g	0.47	-	-	1	<1.1	<0.47	<0.47	<0.47
Arsenic	µg/g	0.47	6	33	67	<1.1	1	<0.47	1.0
Barium	µg/g	0.47	-	-	630	40	67	25	20
Beryllium	µg/g	0.47	-	-	<0.47	<1.1	<0.47	<0.47	<0.47
Bismuth	µg/g	0.47	-	-	0.6	<1.1	<0.47	<0.47	<0.47
Cadmium	µg/g	0.047	0.6	10	1.5	0.3	0.4	0.3	0.1
Calcium	µg/g	240	-	-	9700	13000	6400	8200	7900
Cerium	µg/g	0.47	-	-	58	17	52	19	18
Cesium	µg/g	0.47	-	-	1	<1.1	1	<0.47	1
Chromium	µg/g	0.47	26	110	32	9	35	11	12.0
Cobalt	µg/g	0.047	-	-	10	3	9	3	4
Copper	µg/g	0.47	16	110	46	89.0	18	19	12
Europium	µg/g	0.47	-	-	2	<1.1	0.7	<0.47	<0.47
Gallium	µg/g	0.47	-	-	15	2	5	2	2
Iron	%	0.02	2	4	0.4	0.1	0.2	0.1	0.1
Lanthanum	µg/g	0.47	-	-	55	17	26	13	9
Lead	µg/g	0.47	31	250	46	5	16	4	2
Lithium	µg/g	2.4	-	-	10	<5.5	19	6	8
Magnesium	µg/g	1.9	-	-	3800	1800	6000	2900	4500
Manganese	µg/g	0.48	460	1100	11000	82	610	110	310
Mercury	µg/g	0.047	0.2	2	0.6	0.1	0.2	0.05	<0.047
Molybdenum	µg/g	0.47	-	-	9	3	<0.47	1	<0.47
Nickel	µg/g	0.47	16	75	42	19	24	12	10.0
Niobium	µg/g	0.47	-	-	0.8	<1.1	2	1	1
pH	pH	-	-	-	6.8	6.8	6.4	6.8	7
Phosphorus	µg/g	24	-	-	3700	380	900	400	380
Rubidium	µg/g	0.47	-	-	10	5	14	3	5
Scandium	µg/g	0.47	-	-	3	<1.1	2	0.8	0.8
Selenium	µg/g	0.47	-	-	<0.47	<1.1	<0.47	<0.47	<0.47
Silver	µg/g	0.47	-	-	<0.47	<0.47	<0.47	<0.47	<0.47
Strontium	µg/g	0.47	-	-	21	12	18	12	10
Thallium	µg/g	0.47	-	-	<0.47	<1.1	<0.47	<0.47	<0.47
Thorium	µg/g	0.47	-	-	3	1	6	2	2
Tin	µg/g	0.47	-	-	1	<1.1	0.6	<0.47	<0.47
Titanium	µg/g	1.1	-	-	260	160	940	320	410
Tungsten	µg/g	0.47	-	-	2	<1.1	<0.47	3	<0.47
Uranium	µg/g	0.47	-	-	8	<1.1	2	2	0.7
Vanadium	µg/g	0.47	-	-	40	<1.1	33	7	11
Yttrium	µg/g	0.47	-	-	19	9	11	6	4
Zinc	µg/g	0.47	120	820	134.0	48	64	26	22
Zirconium	µg/g	0.47	-	-	6	11	8	6	4
Total Organic Carbon	%	0.05	1	10	15	17	5	10	2
pH	pH	-	-	-	6.8	6.8	6.4	6.8	7

SEDIMENT QUALITY NOTES:

All exceedances are highlighted in yellow.

LEL Values in *italics* exceed MOE Provincial Sediment Quality Guideline Lowest Effect Level.

SEL Values in **bold** exceed MOE Provincial Sediment Quality Guideline Severe Effect Level.

Values <10 Values were rounded to one significant digit.

Values >10 Values were rounded to two significant digits.