



Environmental Division

Certificate of Analysis

OZ MINERALS CANADA RESOURCES INC.

ATTN: ANDREW MITCHELL

200 - 1159 ALLOY DRIVE

THUNDER BAY ON P7B 6M8

Report Date: 14-OCT-09 16:06 (MT)

Version: FINAL

Lab Work Order #: L827345

Date Received: 07-OCT-09

Project P.O. #: 09-00623

Job Reference:

Legal Site Desc:

CofC Numbers: 08-012351, 08-012368

Other Information:

Comments:

Maureen Olinek
Senior Account Manager

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L827345-1	LUP-10-09-30-09							
Sampled By: TC on 30-SEP-09 @ 15:45								
Matrix: WATER								
Total Metals - CCME								
Mercury (Hg) - Total								
Mercury (Hg)-Total		<0.00010		0.00010	mg/L		13-OCT-09	R979899
Total Metals in Water by ICPMS (Low)								
Aluminum (Al)-Total		0.040		0.010	mg/L		10-OCT-09	R979852
Antimony (Sb)-Total		<0.00040		0.00040	mg/L		10-OCT-09	R979852
Arsenic (As)-Total		0.0101		0.00040	mg/L		10-OCT-09	R979852
Barium (Ba)-Total		0.0169		0.0030	mg/L		10-OCT-09	R979852
Beryllium (Be)-Total		<0.0010		0.0010	mg/L		10-OCT-09	R979852
Boron (B)-Total		0.071		0.050	mg/L		10-OCT-09	R979852
Cadmium (Cd)-Total		0.00148		0.000050	mg/L		10-OCT-09	R979852
Chromium (Cr)-Total		<0.0050		0.0050	mg/L		10-OCT-09	R979852
Cobalt (Co)-Total		0.0412		0.0020	mg/L		10-OCT-09	R979852
Copper (Cu)-Total		0.0022		0.0010	mg/L		10-OCT-09	R979852
Lead (Pb)-Total		<0.00010		0.00010	mg/L		10-OCT-09	R979852
Lithium (Li)-Total		0.030		0.010	mg/L		10-OCT-09	R979852
Molybdenum (Mo)-Total		<0.0050		0.0050	mg/L		10-OCT-09	R979852
Nickel (Ni)-Total		0.0806		0.0020	mg/L		10-OCT-09	R979852
Selenium (Se)-Total		0.00177		0.00040	mg/L		10-OCT-09	R979852
Silver (Ag)-Total		<0.00010		0.00010	mg/L		10-OCT-09	R979852
Thallium (Tl)-Total		<0.00010		0.00010	mg/L		10-OCT-09	R979852
Tin (Sn)-Total		<0.050		0.050	mg/L		10-OCT-09	R979852
Titanium (Ti)-Total		<0.0010		0.0010	mg/L		10-OCT-09	R979852
Uranium (U)-Total		<0.00010		0.00010	mg/L		10-OCT-09	R979852
Vanadium (V)-Total		<0.0010		0.0010	mg/L		10-OCT-09	R979852
Zinc (Zn)-Total		0.261		0.0040	mg/L		10-OCT-09	R979852
Total Metals in Water by ICPOES (Low)								
Calcium (Ca)-Total		70.9		0.50	mg/L		08-OCT-09	R977821
Iron (Fe)-Total		0.173		0.010	mg/L		08-OCT-09	R977821
Magnesium (Mg)-Total		7.04		0.10	mg/L		08-OCT-09	R977821
Manganese (Mn)-Total		0.865		0.0020	mg/L		08-OCT-09	R977821
Potassium (K)-Total		6.16		0.10	mg/L		08-OCT-09	R977821
Sodium (Na)-Total		70.3		1.0	mg/L		08-OCT-09	R977821
Miscellaneous Parameters								
Cyanide, Total		0.0020		0.0020	mg/L	13-OCT-09	13-OCT-09	R979833
Total Suspended Solids		<3.0		3.0	mg/L		09-OCT-09	R978721
pH		6.77		0.10	pH		08-OCT-09	R977905
L827345-2	LUP-10-10-01-09							
Sampled By: TC on 01-OCT-09 @ 16:00								
Matrix: WATER								
Total Metals - CCME								
Mercury (Hg) - Total								
Mercury (Hg)-Total		<0.00010		0.00010	mg/L		13-OCT-09	R979899
Total Metals in Water by ICPMS (Low)								
Aluminum (Al)-Total		0.041		0.010	mg/L		10-OCT-09	R979852
Antimony (Sb)-Total		<0.00040		0.00040	mg/L		10-OCT-09	R979852
Arsenic (As)-Total		0.00948		0.00040	mg/L		10-OCT-09	R979852
Barium (Ba)-Total		0.0150		0.0030	mg/L		10-OCT-09	R979852
Beryllium (Be)-Total		<0.0010		0.0010	mg/L		10-OCT-09	R979852
Boron (B)-Total		0.070		0.050	mg/L		10-OCT-09	R979852
Cadmium (Cd)-Total		0.000660		0.000050	mg/L		10-OCT-09	R979852
Chromium (Cr)-Total		<0.0050		0.0050	mg/L		10-OCT-09	R979852

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L827345-2 LUP-10-10-01-09 Sampled By: TC on 01-OCT-09 @ 16:00 Matrix: WATER							
Total Metals in Water by ICPMS (Low)							
Cobalt (Co)-Total	0.0407		0.0020	mg/L		10-OCT-09	R979852
Copper (Cu)-Total	0.0020		0.0010	mg/L		10-OCT-09	R979852
Lead (Pb)-Total	<0.00010		0.00010	mg/L		10-OCT-09	R979852
Lithium (Li)-Total	0.029		0.010	mg/L		10-OCT-09	R979852
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		10-OCT-09	R979852
Nickel (Ni)-Total	0.0798		0.0020	mg/L		10-OCT-09	R979852
Selenium (Se)-Total	0.00179		0.00040	mg/L		10-OCT-09	R979852
Silver (Ag)-Total	<0.00010		0.00010	mg/L		10-OCT-09	R979852
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		10-OCT-09	R979852
Tin (Sn)-Total	<0.050		0.050	mg/L		10-OCT-09	R979852
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		10-OCT-09	R979852
Uranium (U)-Total	<0.00010		0.00010	mg/L		10-OCT-09	R979852
Vanadium (V)-Total	<0.0010		0.0010	mg/L		10-OCT-09	R979852
Zinc (Zn)-Total	0.264		0.0040	mg/L		10-OCT-09	R979852
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	69.9		0.50	mg/L		08-OCT-09	R977821
Iron (Fe)-Total	0.222		0.010	mg/L		08-OCT-09	R977821
Magnesium (Mg)-Total	7.03		0.10	mg/L		08-OCT-09	R977821
Manganese (Mn)-Total	0.856		0.0020	mg/L		08-OCT-09	R977821
Potassium (K)-Total	5.84		0.10	mg/L		08-OCT-09	R977821
Sodium (Na)-Total	69.8		1.0	mg/L		08-OCT-09	R977821
Miscellaneous Parameters							
Cyanide, Total	0.0020		0.0020	mg/L	13-OCT-09	13-OCT-09	R979833
Total Suspended Solids	<3.0		3.0	mg/L		09-OCT-09	R978721
pH	6.76		0.10	pH		08-OCT-09	R977905
L827345-3 LUP-10-10-02-09 Sampled By: TC on 02-OCT-09 @ 16:15 Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		13-OCT-09	R979899
Total Metals in Water by ICPMS (Low)							
Aluminum (Al)-Total	0.033		0.010	mg/L		10-OCT-09	R979852
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		10-OCT-09	R979852
Arsenic (As)-Total	0.00929		0.00040	mg/L		10-OCT-09	R979852
Barium (Ba)-Total	0.0151		0.0030	mg/L		10-OCT-09	R979852
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		10-OCT-09	R979852
Boron (B)-Total	0.069		0.050	mg/L		10-OCT-09	R979852
Cadmium (Cd)-Total	0.00142		0.000050	mg/L		10-OCT-09	R979852
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		10-OCT-09	R979852
Cobalt (Co)-Total	0.0412		0.0020	mg/L		10-OCT-09	R979852
Copper (Cu)-Total	0.0019		0.0010	mg/L		10-OCT-09	R979852
Lead (Pb)-Total	<0.00010		0.00010	mg/L		10-OCT-09	R979852
Lithium (Li)-Total	0.029		0.010	mg/L		10-OCT-09	R979852
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		10-OCT-09	R979852
Nickel (Ni)-Total	0.0801		0.0020	mg/L		10-OCT-09	R979852
Selenium (Se)-Total	0.00183		0.00040	mg/L		10-OCT-09	R979852
Silver (Ag)-Total	<0.00010		0.00010	mg/L		10-OCT-09	R979852
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		10-OCT-09	R979852
Tin (Sn)-Total	<0.050		0.050	mg/L		10-OCT-09	R979852
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		10-OCT-09	R979852

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L827345-3 LUP-10-10-02-09 Sampled By: TC on 02-OCT-09 @ 16:15 Matrix: WATER Total Metals in Water by ICPMS (Low) Uranium (U)-Total Vanadium (V)-Total Zinc (Zn)-Total Total Metals in Water by ICPOES (Low) Calcium (Ca)-Total Iron (Fe)-Total Magnesium (Mg)-Total Manganese (Mn)-Total Potassium (K)-Total Sodium (Na)-Total Miscellaneous Parameters Cyanide, Total Total Suspended Solids pH	<0.00010 <0.0010 0.266 72.5 0.212 7.34 0.902 6.32 72.4 0.0030 <3.0 6.76		0.00010 0.0010 0.0040 0.50 0.010 0.10 0.0020 0.10 1.0	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L		10-OCT-09 10-OCT-09 10-OCT-09 08-OCT-09 08-OCT-09 08-OCT-09 08-OCT-09 08-OCT-09 08-OCT-09 13-OCT-09 09-OCT-09 08-OCT-09	R979852 R979852 R979852 R977821 R977821 R977821 R977821 R977821 R977821 R979833 R978721 R977905
L827345-4 LUP-10-10-03-09 Sampled By: TC on 03-OCT-09 @ 16:00 Matrix: WATER Total Metals - CCME Mercury (Hg) - Total Mercury (Hg)-Total Total Metals in Water by ICPMS (Low) Aluminum (Al)-Total Antimony (Sb)-Total Arsenic (As)-Total Barium (Ba)-Total Beryllium (Be)-Total Boron (B)-Total Cadmium (Cd)-Total Chromium (Cr)-Total Cobalt (Co)-Total Copper (Cu)-Total Lead (Pb)-Total Lithium (Li)-Total Molybdenum (Mo)-Total Nickel (Ni)-Total Selenium (Se)-Total Silver (Ag)-Total Thallium (Tl)-Total Tin (Sn)-Total Titanium (Ti)-Total Uranium (U)-Total Vanadium (V)-Total Zinc (Zn)-Total Total Metals in Water by ICPOES (Low) Calcium (Ca)-Total Iron (Fe)-Total Magnesium (Mg)-Total Manganese (Mn)-Total Potassium (K)-Total Sodium (Na)-Total Miscellaneous Parameters	<0.00010 0.034 <0.00040 0.00859 0.0138 <0.0010 0.073 0.000255 <0.0050 0.0412 0.0019 <0.00010 0.029 <0.0050 0.0799 <0.0020 <0.00010 <0.00010 <0.050 <0.0010 <0.00010 <0.0010 0.267 68.8 0.214 6.90 0.851 5.97 69.1	DLM	0.00010 0.010 0.00040 0.00040 0.0030 0.0010 0.050 0.000050 0.0050 0.0020 0.0010 0.00010 0.010 0.0050 0.0020 0.00010 0.00010 0.050 0.0010 0.00010 0.0010 0.0040 0.50 0.010 0.10 0.0020 0.10 1.0	mg/L mg/L		13-OCT-09 10-OCT-09 08-OCT-09 08-OCT-09 08-OCT-09 08-OCT-09 08-OCT-09 08-OCT-09	R979899 R979852 R977821 R977821 R977821 R977821 R977821 R977821

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L827345-4	LUP-10-10-03-09							
Sampled By: TC on 03-OCT-09 @ 16:00								
Matrix: WATER								
Cyanide, Total		0.0020		0.0020	mg/L	13-OCT-09	13-OCT-09	R979833
Total Suspended Solids		<3.0		3.0	mg/L		09-OCT-09	R978721
pH		6.77		0.10	pH		08-OCT-09	R977905
L827345-5	LUP-10-10-04-09							
Sampled By: TC on 04-OCT-09 @ 15:30								
Matrix: WATER								
Total Metals - CCME								
Mercury (Hg) - Total								
Mercury (Hg)-Total		<0.00010		0.00010	mg/L		13-OCT-09	R979899
Total Metals in Water by ICPMS (Low)								
Aluminum (Al)-Total		0.041		0.010	mg/L		10-OCT-09	R979852
Antimony (Sb)-Total		<0.00040		0.00040	mg/L		10-OCT-09	R979852
Arsenic (As)-Total		0.00937		0.00040	mg/L		10-OCT-09	R979852
Barium (Ba)-Total		0.0138		0.0030	mg/L		10-OCT-09	R979852
Beryllium (Be)-Total		<0.0010		0.0010	mg/L		10-OCT-09	R979852
Boron (B)-Total		0.071		0.050	mg/L		10-OCT-09	R979852
Cadmium (Cd)-Total		0.000270		0.000050	mg/L		10-OCT-09	R979852
Chromium (Cr)-Total		<0.0050		0.0050	mg/L		10-OCT-09	R979852
Cobalt (Co)-Total		0.0412		0.0020	mg/L		10-OCT-09	R979852
Copper (Cu)-Total		0.0020		0.0010	mg/L		10-OCT-09	R979852
Lead (Pb)-Total		<0.00010		0.00010	mg/L		10-OCT-09	R979852
Lithium (Li)-Total		0.029		0.010	mg/L		10-OCT-09	R979852
Molybdenum (Mo)-Total		<0.0050		0.0050	mg/L		10-OCT-09	R979852
Nickel (Ni)-Total		0.0798		0.0020	mg/L		10-OCT-09	R979852
Selenium (Se)-Total		<0.0020	DLM	0.0020	mg/L		10-OCT-09	R979852
Silver (Ag)-Total		<0.00010		0.00010	mg/L		10-OCT-09	R979852
Thallium (Tl)-Total		<0.00010		0.00010	mg/L		10-OCT-09	R979852
Tin (Sn)-Total		<0.050		0.050	mg/L		10-OCT-09	R979852
Titanium (Ti)-Total		<0.0010		0.0010	mg/L		10-OCT-09	R979852
Uranium (U)-Total		<0.00010		0.00010	mg/L		10-OCT-09	R979852
Vanadium (V)-Total		<0.0010		0.0010	mg/L		10-OCT-09	R979852
Zinc (Zn)-Total		0.266		0.0040	mg/L		10-OCT-09	R979852
Total Metals in Water by ICPOES (Low)								
Calcium (Ca)-Total		70.8		0.50	mg/L		08-OCT-09	R977821
Iron (Fe)-Total		0.248		0.010	mg/L		08-OCT-09	R977821
Magnesium (Mg)-Total		7.16		0.10	mg/L		08-OCT-09	R977821
Manganese (Mn)-Total		0.862		0.0020	mg/L		08-OCT-09	R977821
Potassium (K)-Total		6.15		0.10	mg/L		08-OCT-09	R977821
Sodium (Na)-Total		71.1		1.0	mg/L		08-OCT-09	R977821
Miscellaneous Parameters								
Cyanide, Total		0.0020		0.0020	mg/L	13-OCT-09	13-OCT-09	R979833
Total Suspended Solids		<3.0		3.0	mg/L		09-OCT-09	R978721
pH		6.75		0.10	pH		08-OCT-09	R977905
L827345-6	LUP-10-10-05-09							
Sampled By: TC on 05-OCT-09 @ 16:00								
Matrix: WATER								
Total Metals - CCME								
Mercury (Hg) - Total								
Mercury (Hg)-Total		<0.00010		0.00010	mg/L		13-OCT-09	R979899
Total Metals in Water by ICPMS (Low)								
Aluminum (Al)-Total		0.049		0.010	mg/L		10-OCT-09	R979852

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L827345-6 LUP-10-10-05-09 Sampled By: TC on 05-OCT-09 @ 16:00 Matrix: WATER							
Total Metals in Water by ICPMS (Low)							
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		10-OCT-09	R979852
Arsenic (As)-Total	0.00934		0.00040	mg/L		10-OCT-09	R979852
Barium (Ba)-Total	0.0139		0.0030	mg/L		10-OCT-09	R979852
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		10-OCT-09	R979852
Boron (B)-Total	0.070		0.050	mg/L		10-OCT-09	R979852
Cadmium (Cd)-Total	0.000220		0.000050	mg/L		10-OCT-09	R979852
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		10-OCT-09	R979852
Cobalt (Co)-Total	0.0414		0.0020	mg/L		10-OCT-09	R979852
Copper (Cu)-Total	0.0023		0.0010	mg/L		10-OCT-09	R979852
Lead (Pb)-Total	<0.00010		0.00010	mg/L		10-OCT-09	R979852
Lithium (Li)-Total	0.030		0.010	mg/L		10-OCT-09	R979852
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		10-OCT-09	R979852
Nickel (Ni)-Total	0.0809		0.0020	mg/L		10-OCT-09	R979852
Selenium (Se)-Total	<0.0020	DLM	0.0020	mg/L		10-OCT-09	R979852
Silver (Ag)-Total	<0.00010		0.00010	mg/L		10-OCT-09	R979852
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		10-OCT-09	R979852
Tin (Sn)-Total	<0.050		0.050	mg/L		10-OCT-09	R979852
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		10-OCT-09	R979852
Uranium (U)-Total	<0.00010		0.00010	mg/L		10-OCT-09	R979852
Vanadium (V)-Total	<0.0010		0.0010	mg/L		10-OCT-09	R979852
Zinc (Zn)-Total	0.265		0.0040	mg/L		10-OCT-09	R979852
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	68.9		0.50	mg/L		08-OCT-09	R977821
Iron (Fe)-Total	0.271		0.010	mg/L		08-OCT-09	R977821
Magnesium (Mg)-Total	6.97		0.10	mg/L		08-OCT-09	R977821
Manganese (Mn)-Total	0.845		0.0020	mg/L		08-OCT-09	R977821
Potassium (K)-Total	6.04		0.10	mg/L		08-OCT-09	R977821
Sodium (Na)-Total	70.6		1.0	mg/L		08-OCT-09	R977821
Miscellaneous Parameters							
Cyanide, Total	0.0020		0.0020	mg/L	13-OCT-09	13-OCT-09	R979833
Total Suspended Solids	<3.0		3.0	mg/L		09-OCT-09	R978721
pH	6.72		0.10	pH		08-OCT-09	R977905
L827345-7 LUP-10-10-05-09-D Sampled By: TC on 05-OCT-09 @ 16:00 Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		13-OCT-09	R979899
Total Metals in Water by ICPMS (Low)							
Aluminum (Al)-Total	0.047		0.010	mg/L		10-OCT-09	R979852
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		10-OCT-09	R979852
Arsenic (As)-Total	0.00960		0.00040	mg/L		10-OCT-09	R979852
Barium (Ba)-Total	0.0139		0.0030	mg/L		10-OCT-09	R979852
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		10-OCT-09	R979852
Boron (B)-Total	0.072		0.050	mg/L		10-OCT-09	R979852
Cadmium (Cd)-Total	0.000285		0.000050	mg/L		10-OCT-09	R979852
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		10-OCT-09	R979852
Cobalt (Co)-Total	0.0414		0.0020	mg/L		10-OCT-09	R979852
Copper (Cu)-Total	0.0023		0.0010	mg/L		10-OCT-09	R979852
Lead (Pb)-Total	<0.00010		0.00010	mg/L		10-OCT-09	R979852
Lithium (Li)-Total	0.030		0.010	mg/L		10-OCT-09	R979852

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

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L827345-7	LUP-10-10-05-09-D Sampled By: TC on 05-OCT-09 @ 16:00 Matrix: WATER							
Total Metals in Water by ICPMS (Low)								
Molybdenum (Mo)-Total	<0.0050		DLM	0.0050	mg/L		10-OCT-09	R979852
Nickel (Ni)-Total	0.0806			0.0020	mg/L		10-OCT-09	R979852
Selenium (Se)-Total	<0.0020			0.0020	mg/L		10-OCT-09	R979852
Silver (Ag)-Total	<0.00010			0.00010	mg/L		10-OCT-09	R979852
Thallium (Tl)-Total	<0.00010			0.00010	mg/L		10-OCT-09	R979852
Tin (Sn)-Total	<0.050			0.050	mg/L		10-OCT-09	R979852
Titanium (Ti)-Total	<0.0010			0.0010	mg/L		10-OCT-09	R979852
Uranium (U)-Total	<0.00010			0.00010	mg/L		10-OCT-09	R979852
Vanadium (V)-Total	<0.0010			0.0010	mg/L		10-OCT-09	R979852
Zinc (Zn)-Total	0.266			0.0040	mg/L		10-OCT-09	R979852
Total Metals in Water by ICPOES (Low)								
Calcium (Ca)-Total	68.5			0.50	mg/L		08-OCT-09	R977821
Iron (Fe)-Total	0.250			0.010	mg/L		08-OCT-09	R977821
Magnesium (Mg)-Total	6.86			0.10	mg/L		08-OCT-09	R977821
Manganese (Mn)-Total	0.843			0.0020	mg/L		08-OCT-09	R977821
Potassium (K)-Total	6.06			0.10	mg/L		08-OCT-09	R977821
Sodium (Na)-Total	70.4			1.0	mg/L		08-OCT-09	R977821
Miscellaneous Parameters								
Cyanide, Total	0.0020			0.0020	mg/L	13-OCT-09	13-OCT-09	R979833
Total Suspended Solids	<3.0			3.0	mg/L		09-OCT-09	R978721
pH	6.72			0.10	pH		08-OCT-09	R977905
L827345-8	LUP-20-10-05-09-W Sampled By: TC on 05-OCT-09 @ 12:30 Matrix: WATER							
Total Metals - CCME								
Mercury (Hg) - Total								
Mercury (Hg)-Total	<0.00010			0.00010	mg/L		13-OCT-09	R979899
Total Metals in Water by ICPMS (Low)								
Aluminum (Al)-Total	0.054			0.010	mg/L		10-OCT-09	R979852
Antimony (Sb)-Total	<0.00040			0.00040	mg/L		10-OCT-09	R979852
Arsenic (As)-Total	0.00195			0.00040	mg/L		10-OCT-09	R979852
Barium (Ba)-Total	0.0158			0.0030	mg/L		10-OCT-09	R979852
Beryllium (Be)-Total	<0.0010			0.0010	mg/L		10-OCT-09	R979852
Boron (B)-Total	0.062			0.050	mg/L		10-OCT-09	R979852
Cadmium (Cd)-Total	0.000245			0.000050	mg/L		10-OCT-09	R979852
Chromium (Cr)-Total	<0.0050			0.0050	mg/L		10-OCT-09	R979852
Cobalt (Co)-Total	0.0298			0.0020	mg/L		10-OCT-09	R979852
Copper (Cu)-Total	0.0017			0.0010	mg/L		10-OCT-09	R979852
Lead (Pb)-Total	<0.00010			0.00010	mg/L		10-OCT-09	R979852
Lithium (Li)-Total	0.024			0.010	mg/L		10-OCT-09	R979852
Molybdenum (Mo)-Total	<0.0050			0.0050	mg/L		10-OCT-09	R979852
Nickel (Ni)-Total	0.0746			0.0020	mg/L		10-OCT-09	R979852
Selenium (Se)-Total	0.00159			0.00040	mg/L		10-OCT-09	R979852
Silver (Ag)-Total	<0.00010			0.00010	mg/L		10-OCT-09	R979852
Thallium (Tl)-Total	<0.00010			0.00010	mg/L		10-OCT-09	R979852
Tin (Sn)-Total	<0.050			0.050	mg/L		10-OCT-09	R979852
Titanium (Ti)-Total	<0.0010			0.0010	mg/L		10-OCT-09	R979852
Uranium (U)-Total	<0.00010			0.00010	mg/L		10-OCT-09	R979852
Vanadium (V)-Total	<0.0010			0.0010	mg/L		10-OCT-09	R979852
Zinc (Zn)-Total	0.221			0.0040	mg/L		10-OCT-09	R979852
Total Metals in Water by ICPOES (Low)								

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L827345-8	LUP-20-10-05-09-W							
Sampled By: TC on 05-OCT-09 @ 12:30								
Matrix: WATER								
Total Metals in Water by ICPOES (Low)								
Calcium (Ca)-Total		59.1		0.50	mg/L		08-OCT-09	R977821
Iron (Fe)-Total		0.048		0.010	mg/L		08-OCT-09	R977821
Magnesium (Mg)-Total		6.33		0.10	mg/L		08-OCT-09	R977821
Manganese (Mn)-Total		0.620		0.0020	mg/L		08-OCT-09	R977821
Potassium (K)-Total		4.92		0.10	mg/L		08-OCT-09	R977821
Sodium (Na)-Total		57.0		1.0	mg/L		08-OCT-09	R977821
Miscellaneous Parameters								
Alkalinity, Total (as CaCO3)		<5.0		5.0	mg/L		08-OCT-09	R977905
Ammonia-N		0.232		0.050	mg/L		09-OCT-09	R978601
Cyanide, Total		<0.0020		0.0020	mg/L	13-OCT-09	13-OCT-09	R979833
Hardness (as CaCO3)		174			mg/L		09-OCT-09	
Total Suspended Solids		<3.0		3.0	mg/L		09-OCT-09	R978721
pH		5.97		0.10	pH		08-OCT-09	R977905
L827345-9	LUP-21-10-05-09-W							
Sampled By: TC on 05-OCT-09 @ 12:45								
Matrix: WATER								
Total Metals - CCME								
Mercury (Hg) - Total								
Mercury (Hg)-Total		<0.00010		0.00010	mg/L		13-OCT-09	R979899
Total Metals in Water by ICPMS (Low)								
Aluminum (Al)-Total		0.021		0.010	mg/L		10-OCT-09	R979852
Antimony (Sb)-Total		<0.00040		0.00040	mg/L		10-OCT-09	R979852
Arsenic (As)-Total		0.00050		0.00040	mg/L		10-OCT-09	R979852
Barium (Ba)-Total		<0.0030		0.0030	mg/L		10-OCT-09	R979852
Beryllium (Be)-Total		<0.0010		0.0010	mg/L		10-OCT-09	R979852
Boron (B)-Total		<0.050		0.050	mg/L		10-OCT-09	R979852
Cadmium (Cd)-Total		<0.000050		0.000050	mg/L		10-OCT-09	R979852
Chromium (Cr)-Total		<0.0050		0.0050	mg/L		10-OCT-09	R979852
Cobalt (Co)-Total		<0.0020		0.0020	mg/L		10-OCT-09	R979852
Copper (Cu)-Total		<0.0010		0.0010	mg/L		10-OCT-09	R979852
Lead (Pb)-Total		<0.00010		0.00010	mg/L		10-OCT-09	R979852
Lithium (Li)-Total		<0.010		0.010	mg/L		10-OCT-09	R979852
Molybdenum (Mo)-Total		<0.0050		0.0050	mg/L		10-OCT-09	R979852
Nickel (Ni)-Total		<0.0020		0.0020	mg/L		10-OCT-09	R979852
Selenium (Se)-Total		<0.00080	DLM	0.00080	mg/L		10-OCT-09	R979852
Silver (Ag)-Total		<0.00010		0.00010	mg/L		10-OCT-09	R979852
Thallium (Tl)-Total		<0.00010		0.00010	mg/L		10-OCT-09	R979852
Tin (Sn)-Total		<0.050		0.050	mg/L		10-OCT-09	R979852
Titanium (Ti)-Total		<0.0010		0.0010	mg/L		10-OCT-09	R979852
Uranium (U)-Total		<0.00010		0.00010	mg/L		10-OCT-09	R979852
Vanadium (V)-Total		<0.0010		0.0010	mg/L		10-OCT-09	R979852
Zinc (Zn)-Total		<0.0040		0.0040	mg/L		10-OCT-09	R979852
Total Metals in Water by ICPOES (Low)								
Calcium (Ca)-Total		1.04		0.50	mg/L		09-OCT-09	R978859
Iron (Fe)-Total		0.027		0.010	mg/L		08-OCT-09	R977821
Magnesium (Mg)-Total		0.48		0.10	mg/L		08-OCT-09	R977821
Manganese (Mn)-Total		0.0021		0.0020	mg/L		08-OCT-09	R977821
Potassium (K)-Total		0.35		0.10	mg/L		08-OCT-09	R977821
Sodium (Na)-Total		<1.0		1.0	mg/L		08-OCT-09	R977821
Miscellaneous Parameters								
Alkalinity, Total (as CaCO3)		<5.0		5.0	mg/L		08-OCT-09	R977905

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L827345-9 LUP-21-10-05-09-W Sampled By: TC on 05-OCT-09 @ 12:45 Matrix: WATER							
Ammonia-N	<0.050		0.050	mg/L	13-OCT-09	09-OCT-09	R978601
Cyanide, Total	<0.0020		0.0020	mg/L		13-OCT-09	R979833
Hardness (as CaCO3)	4.9			mg/L		10-OCT-09	
Total Suspended Solids	3.0		3.0	mg/L		09-OCT-09	R978721
pH	6.63		0.10	pH		08-OCT-09	R977905
L827345-10 LUP-22-10-05-09-W Sampled By: TC on 05-OCT-09 @ 13:30 Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		13-OCT-09	R979899
Total Metals in Water by ICPMS (Low)							
Aluminum (Al)-Total	0.033		0.010	mg/L		10-OCT-09	R979852
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		10-OCT-09	R979852
Arsenic (As)-Total	0.00094		0.00040	mg/L		10-OCT-09	R979852
Barium (Ba)-Total	0.0062		0.0030	mg/L		10-OCT-09	R979852
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		10-OCT-09	R979852
Boron (B)-Total	<0.050		0.050	mg/L		10-OCT-09	R979852
Cadmium (Cd)-Total	0.000060		0.000050	mg/L		10-OCT-09	R979852
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		10-OCT-09	R979852
Cobalt (Co)-Total	0.0070		0.0020	mg/L		10-OCT-09	R979852
Copper (Cu)-Total	0.0011		0.0010	mg/L		10-OCT-09	R979852
Lead (Pb)-Total	<0.00010		0.00010	mg/L		10-OCT-09	R979852
Lithium (Li)-Total	<0.010		0.010	mg/L		10-OCT-09	R979852
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		10-OCT-09	R979852
Nickel (Ni)-Total	0.0211		0.0020	mg/L		10-OCT-09	R979852
Selenium (Se)-Total	0.00094	DLM	0.00080	mg/L		10-OCT-09	R979852
Silver (Ag)-Total	<0.00010		0.00010	mg/L		10-OCT-09	R979852
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		10-OCT-09	R979852
Tin (Sn)-Total	<0.050		0.050	mg/L		10-OCT-09	R979852
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		10-OCT-09	R979852
Uranium (U)-Total	<0.00010		0.00010	mg/L		10-OCT-09	R979852
Vanadium (V)-Total	<0.0010		0.0010	mg/L		10-OCT-09	R979852
Zinc (Zn)-Total	0.0627		0.0040	mg/L		10-OCT-09	R979852
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	15.7		0.50	mg/L		08-OCT-09	R977821
Iron (Fe)-Total	0.031		0.010	mg/L		08-OCT-09	R977821
Magnesium (Mg)-Total	1.96		0.10	mg/L		08-OCT-09	R977821
Manganese (Mn)-Total	0.147		0.0020	mg/L		08-OCT-09	R977821
Potassium (K)-Total	1.57		0.10	mg/L		08-OCT-09	R977821
Sodium (Na)-Total	15.5		1.0	mg/L		08-OCT-09	R977821
Miscellaneous Parameters							
Alkalinity, Total (as CaCO3)	<5.0		5.0	mg/L		08-OCT-09	R977905
Ammonia-N	0.055		0.050	mg/L		09-OCT-09	R978601
Cyanide, Total	<0.0020		0.0020	mg/L	13-OCT-09	13-OCT-09	R979833
Hardness (as CaCO3)	47.2			mg/L		09-OCT-09	
Total Suspended Solids	<3.0		3.0	mg/L		09-OCT-09	R978721
pH	6.46		0.10	pH		08-OCT-09	R977905
L827345-11 LUP-24-10-05-09-W Sampled By: TC on 05-OCT-09 @ 13:40 Matrix: WATER							

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L827345-11 LUP-24-10-05-09-W Sampled By: TC on 05-OCT-09 @ 13:40 Matrix: WATER Total Metals - CCME Mercury (Hg) - Total Mercury (Hg)-Total Total Metals in Water by ICPMS (Low) Aluminum (Al)-Total Antimony (Sb)-Total Arsenic (As)-Total Barium (Ba)-Total Beryllium (Be)-Total Boron (B)-Total Cadmium (Cd)-Total Chromium (Cr)-Total Cobalt (Co)-Total Copper (Cu)-Total Lead (Pb)-Total Lithium (Li)-Total Molybdenum (Mo)-Total Nickel (Ni)-Total Selenium (Se)-Total Silver (Ag)-Total Thallium (Tl)-Total Tin (Sn)-Total Titanium (Ti)-Total Uranium (U)-Total Vanadium (V)-Total Zinc (Zn)-Total Total Metals in Water by ICPOES (Low) Calcium (Ca)-Total Iron (Fe)-Total Magnesium (Mg)-Total Manganese (Mn)-Total Potassium (K)-Total Sodium (Na)-Total Miscellaneous Parameters Alkalinity, Total (as CaCO3) Ammonia-N Cyanide, Total Hardness (as CaCO3) Total Suspended Solids pH								
		<0.00010		0.00010	mg/L		13-OCT-09	R979899
		0.035		0.010	mg/L		10-OCT-09	R979852
		<0.00040		0.00040	mg/L		10-OCT-09	R979852
		0.00111		0.00040	mg/L		10-OCT-09	R979852
		0.0086		0.0030	mg/L		10-OCT-09	R979852
		<0.0010		0.0010	mg/L		10-OCT-09	R979852
		<0.050		0.050	mg/L		10-OCT-09	R979852
		0.000170		0.000050	mg/L		10-OCT-09	R979852
		<0.0050		0.0050	mg/L		10-OCT-09	R979852
		0.0063		0.0020	mg/L		10-OCT-09	R979852
		0.0012		0.0010	mg/L		10-OCT-09	R979852
		<0.00010		0.00010	mg/L		10-OCT-09	R979852
		<0.010		0.010	mg/L		10-OCT-09	R979852
		<0.0050		0.0050	mg/L		10-OCT-09	R979852
		0.0243		0.0020	mg/L		10-OCT-09	R979852
		0.00115		0.00080	mg/L		10-OCT-09	R979852
		<0.00010		0.00010	mg/L		10-OCT-09	R979852
		<0.00010		0.00010	mg/L		10-OCT-09	R979852
		<0.050		0.050	mg/L		10-OCT-09	R979852
		<0.0010		0.0010	mg/L		10-OCT-09	R979852
		<0.00010		0.00010	mg/L		10-OCT-09	R979852
		<0.0010		0.0010	mg/L		10-OCT-09	R979852
		0.0714		0.0040	mg/L		10-OCT-09	R979852
		19.7		0.50	mg/L		08-OCT-09	R977821
		0.045		0.010	mg/L		08-OCT-09	R977821
		2.43		0.10	mg/L		08-OCT-09	R977821
		0.150		0.0020	mg/L		08-OCT-09	R977821
		1.88		0.10	mg/L		08-OCT-09	R977821
		19.5		1.0	mg/L		08-OCT-09	R977821
		<5.0		5.0	mg/L		08-OCT-09	R977905
		0.066		0.050	mg/L		09-OCT-09	R978601
		<0.0020		0.0020	mg/L	13-OCT-09	13-OCT-09	R979833
		59.2			mg/L		09-OCT-09	
		<3.0		3.0	mg/L		09-OCT-09	R978721
		6.42		0.10	pH		08-OCT-09	R977905
L827345-12 LUP-24-10-05-09-WD Sampled By: TC on 05-OCT-09 @ 13:40 Matrix: WATER Total Metals - CCME Mercury (Hg) - Total Mercury (Hg)-Total Total Metals in Water by ICPMS (Low) Aluminum (Al)-Total Antimony (Sb)-Total Arsenic (As)-Total Barium (Ba)-Total Beryllium (Be)-Total								
		<0.00010		0.00010	mg/L		13-OCT-09	R979899
		0.035		0.010	mg/L		10-OCT-09	R979852
		<0.00040		0.00040	mg/L		10-OCT-09	R979852
		0.00114		0.00040	mg/L		10-OCT-09	R979852
		0.0087		0.0030	mg/L		10-OCT-09	R979852
		<0.0010		0.0010	mg/L		10-OCT-09	R979852

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

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L827345-12 LUP-24-10-05-09-WD Sampled By: TC on 05-OCT-09 @ 13:40 Matrix: WATER							
Total Metals in Water by ICPMS (Low)							
Boron (B)-Total	<0.050		0.050	mg/L		10-OCT-09	R979852
Cadmium (Cd)-Total	0.000100		0.000050	mg/L		10-OCT-09	R979852
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		10-OCT-09	R979852
Cobalt (Co)-Total	0.0062		0.0020	mg/L		10-OCT-09	R979852
Copper (Cu)-Total	0.0012		0.0010	mg/L		10-OCT-09	R979852
Lead (Pb)-Total	<0.00010		0.00010	mg/L		10-OCT-09	R979852
Lithium (Li)-Total	<0.010		0.010	mg/L		10-OCT-09	R979852
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		10-OCT-09	R979852
Nickel (Ni)-Total	0.0242		0.0020	mg/L		10-OCT-09	R979852
Selenium (Se)-Total	0.00097	DLM	0.00080	mg/L		10-OCT-09	R979852
Silver (Ag)-Total	<0.00010		0.00010	mg/L		10-OCT-09	R979852
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		10-OCT-09	R979852
Tin (Sn)-Total	<0.050		0.050	mg/L		10-OCT-09	R979852
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		10-OCT-09	R979852
Uranium (U)-Total	<0.00010		0.00010	mg/L		10-OCT-09	R979852
Vanadium (V)-Total	<0.0010		0.0010	mg/L		10-OCT-09	R979852
Zinc (Zn)-Total	0.0693		0.0040	mg/L		10-OCT-09	R979852
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	19.6		0.50	mg/L		08-OCT-09	R977821
Iron (Fe)-Total	0.048		0.010	mg/L		08-OCT-09	R977821
Magnesium (Mg)-Total	2.41		0.10	mg/L		08-OCT-09	R977821
Manganese (Mn)-Total	0.148		0.0020	mg/L		08-OCT-09	R977821
Potassium (K)-Total	1.89		0.10	mg/L		08-OCT-09	R977821
Sodium (Na)-Total	19.4		1.0	mg/L		08-OCT-09	R977821
Miscellaneous Parameters							
Alkalinity, Total (as CaCO3)	<5.0		5.0	mg/L		08-OCT-09	R977905
Ammonia-N	0.065		0.050	mg/L		09-OCT-09	R978601
Cyanide, Total	<0.0020		0.0020	mg/L	13-OCT-09	13-OCT-09	R979833
Hardness (as CaCO3)	59.0			mg/L		09-OCT-09	
Total Suspended Solids	<3.0		3.0	mg/L		09-OCT-09	R978721
pH	6.43		0.10	pH		08-OCT-09	R977905
L827345-13 LUP-25-10-05-09-W Sampled By: TC on 05-OCT-09 @ 13:50 Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		13-OCT-09	R979899
Total Metals in Water by ICPMS (Low)							
Aluminum (Al)-Total	0.021		0.010	mg/L		10-OCT-09	R979852
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		10-OCT-09	R979852
Arsenic (As)-Total	0.00070		0.00040	mg/L		10-OCT-09	R979852
Barium (Ba)-Total	0.0052		0.0030	mg/L		10-OCT-09	R979852
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		10-OCT-09	R979852
Boron (B)-Total	<0.050		0.050	mg/L		10-OCT-09	R979852
Cadmium (Cd)-Total	0.000065		0.000050	mg/L		10-OCT-09	R979852
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		10-OCT-09	R979852
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		10-OCT-09	R979852
Copper (Cu)-Total	<0.0010		0.0010	mg/L		10-OCT-09	R979852
Lead (Pb)-Total	0.00011		0.00010	mg/L		10-OCT-09	R979852
Lithium (Li)-Total	<0.010		0.010	mg/L		10-OCT-09	R979852
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		10-OCT-09	R979852

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L827345-13 LUP-25-10-05-09-W Sampled By: TC on 05-OCT-09 @ 13:50 Matrix: WATER							
Total Metals in Water by ICPMS (Low)							
Nickel (Ni)-Total	0.0086	DLM	0.0020	mg/L		10-OCT-09	R979852
Selenium (Se)-Total	<0.00080		0.00080	mg/L		10-OCT-09	R979852
Silver (Ag)-Total	<0.00010		0.00010	mg/L		10-OCT-09	R979852
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		10-OCT-09	R979852
Tin (Sn)-Total	<0.050		0.050	mg/L		10-OCT-09	R979852
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		10-OCT-09	R979852
Uranium (U)-Total	<0.00010		0.00010	mg/L		10-OCT-09	R979852
Vanadium (V)-Total	<0.0010		0.0010	mg/L		10-OCT-09	R979852
Zinc (Zn)-Total	0.0364		0.0040	mg/L		10-OCT-09	R979852
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	7.49		0.50	mg/L		08-OCT-09	R977821
Iron (Fe)-Total	0.023		0.010	mg/L		08-OCT-09	R977821
Magnesium (Mg)-Total	1.17		0.10	mg/L		08-OCT-09	R977821
Manganese (Mn)-Total	0.0457		0.0020	mg/L		08-OCT-09	R977821
Potassium (K)-Total	1.03		0.10	mg/L		08-OCT-09	R977821
Sodium (Na)-Total	7.5		1.0	mg/L		08-OCT-09	R977821
Miscellaneous Parameters							
Alkalinity, Total (as CaCO3)	<5.0		5.0	mg/L		08-OCT-09	R977905
Ammonia-N	<0.050		0.050	mg/L		09-OCT-09	R978601
Cyanide, Total	<0.0020		0.0020	mg/L	13-OCT-09	13-OCT-09	R979833
Hardness (as CaCO3)	23.5			mg/L		09-OCT-09	
Total Suspended Solids	<3.0		3.0	mg/L		09-OCT-09	R978721
pH	6.64		0.10	pH		08-OCT-09	R977905
L827345-14 LUP-FIELD BLANK-10-06-09 Sampled By: TC on 06-OCT-09 @ 09:20 Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		13-OCT-09	R979899
Total Metals in Water by ICPMS (Low)							
Aluminum (Al)-Total	<0.010	DLM	0.010	mg/L		10-OCT-09	R979852
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		10-OCT-09	R979852
Arsenic (As)-Total	<0.00040		0.00040	mg/L		10-OCT-09	R979852
Barium (Ba)-Total	<0.0030		0.0030	mg/L		10-OCT-09	R979852
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		10-OCT-09	R979852
Boron (B)-Total	<0.050		0.050	mg/L		10-OCT-09	R979852
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		10-OCT-09	R979852
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		10-OCT-09	R979852
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		10-OCT-09	R979852
Copper (Cu)-Total	<0.0010		0.0010	mg/L		10-OCT-09	R979852
Lead (Pb)-Total	<0.00010		0.00010	mg/L		10-OCT-09	R979852
Lithium (Li)-Total	<0.010		0.010	mg/L		10-OCT-09	R979852
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		10-OCT-09	R979852
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		10-OCT-09	R979852
Selenium (Se)-Total	<0.00080		0.00080	mg/L		10-OCT-09	R979852
Silver (Ag)-Total	<0.00010		0.00010	mg/L		10-OCT-09	R979852
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		10-OCT-09	R979852
Tin (Sn)-Total	<0.050		0.050	mg/L		10-OCT-09	R979852
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		10-OCT-09	R979852
Uranium (U)-Total	<0.00010		0.00010	mg/L		10-OCT-09	R979852
Vanadium (V)-Total	<0.0010		0.0010	mg/L		10-OCT-09	R979852

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L827345-14 LUP-FIELD BLANK-10-06-09 Sampled By: TC on 06-OCT-09 @ 09:20 Matrix: WATER							
Total Metals in Water by ICPMS (Low)							
Zinc (Zn)-Total	<0.0040		0.0040	mg/L		10-OCT-09	R979852
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	<0.50		0.50	mg/L		08-OCT-09	R977821
Iron (Fe)-Total	<0.010		0.010	mg/L		08-OCT-09	R977821
Magnesium (Mg)-Total	<0.10		0.10	mg/L		08-OCT-09	R977821
Manganese (Mn)-Total	<0.0020		0.0020	mg/L		08-OCT-09	R977821
Potassium (K)-Total	0.14		0.10	mg/L		08-OCT-09	R977821
Sodium (Na)-Total	<1.0		1.0	mg/L		08-OCT-09	R977821
Miscellaneous Parameters							
Alkalinity, Total (as CaCO3)	<5.0		5.0	mg/L		08-OCT-09	R977905
Ammonia-N	<0.050		0.050	mg/L		09-OCT-09	R978601
Cyanide, Total	<0.0020		0.0020	mg/L	13-OCT-09	13-OCT-09	R979833
Hardness (as CaCO3)	<1.3			mg/L		09-OCT-09	
Total Suspended Solids	<3.0		3.0	mg/L		09-OCT-09	R978721
pH	5.95		0.10	pH		08-OCT-09	R977905
L827345-15 LUP-10-10-06-09-W Sampled By: TC on 06-OCT-09 @ 09:55 Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		13-OCT-09	R979899
Total Metals in Water by ICPMS (Low)							
Aluminum (Al)-Total	0.051		0.010	mg/L		10-OCT-09	R979852
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		10-OCT-09	R979852
Arsenic (As)-Total	0.00861		0.00040	mg/L		10-OCT-09	R979852
Barium (Ba)-Total	0.0138		0.0030	mg/L		10-OCT-09	R979852
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		10-OCT-09	R979852
Boron (B)-Total	0.072		0.050	mg/L		10-OCT-09	R979852
Cadmium (Cd)-Total	0.00111		0.000050	mg/L		10-OCT-09	R979852
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		10-OCT-09	R979852
Cobalt (Co)-Total	0.0414		0.0020	mg/L		10-OCT-09	R979852
Copper (Cu)-Total	0.0025		0.0010	mg/L		10-OCT-09	R979852
Lead (Pb)-Total	0.00015		0.00010	mg/L		10-OCT-09	R979852
Lithium (Li)-Total	0.029		0.010	mg/L		10-OCT-09	R979852
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		10-OCT-09	R979852
Nickel (Ni)-Total	0.0810		0.0020	mg/L		10-OCT-09	R979852
Selenium (Se)-Total	<0.0020	DLM	0.0020	mg/L		10-OCT-09	R979852
Silver (Ag)-Total	<0.00010		0.00010	mg/L		10-OCT-09	R979852
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		10-OCT-09	R979852
Tin (Sn)-Total	<0.050		0.050	mg/L		10-OCT-09	R979852
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		10-OCT-09	R979852
Uranium (U)-Total	<0.00010		0.00010	mg/L		10-OCT-09	R979852
Vanadium (V)-Total	<0.0010		0.0010	mg/L		10-OCT-09	R979852
Zinc (Zn)-Total	0.343		0.0040	mg/L		10-OCT-09	R979852
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	65.3		0.50	mg/L		08-OCT-09	R977821
Iron (Fe)-Total	0.204		0.010	mg/L		08-OCT-09	R977821
Magnesium (Mg)-Total	6.57		0.10	mg/L		08-OCT-09	R977821
Manganese (Mn)-Total	0.807		0.0020	mg/L		08-OCT-09	R977821
Potassium (K)-Total	5.72		0.10	mg/L		08-OCT-09	R977821
Sodium (Na)-Total	66.6		1.0	mg/L		08-OCT-09	R977821

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L827345-15	LUP-10-10-06-09-W							
Sampled By:	TC on 06-OCT-09 @ 09:55							
Matrix:	WATER							
Miscellaneous Parameters								
Alkalinity, Total (as CaCO3)		<5.0		5.0	mg/L		08-OCT-09	R977905
Ammonia-N		0.433		0.050	mg/L		09-OCT-09	R978601
Cyanide, Total		0.0020		0.0020	mg/L	13-OCT-09	13-OCT-09	R979833
Hardness (as CaCO3)		190			mg/L		09-OCT-09	
Total Suspended Solids		<3.0		3.0	mg/L		09-OCT-09	R978721
pH		6.67		0.10	pH		08-OCT-09	R977905

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

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
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Sample Parameter Qualifier Key:

Qualifier	Description
DLM	Detection Limit Adjustment For Sample Matrix Effects
E	Matrix Spike recovery outside ALS DQO due to analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ALK-TOT-ED	Water	Alkalinity, Total	APHA 2320 B-Auto-Pot. Titration
CN-TOT-WT	Water	Cyanide, Total	APHA 4500CN C E-STRONG ACID DIST COLORIM
Total cyanide is determined by the combination of UV digestion and distillation. Cyanide is converted to cyanogen chloride by reacting with chloramine-T, the cyanogen chloride then reacts with a combination of barbituric acid and isonicotinic acid to form a highly colored complex.			
ETL-HARDNESS-TOT-ED	Water	Hardness (from Total Ca and Mg)	APHA 2340 B-Calculation
HG-T-CVAA-ED	Water	Mercury (Hg) - Total	EPA 245.7 / EPA 245.1
MET-T-L-ICP-ED	Water	Total Metals in Water by ICPOES (Low)	APHA 3120 B-ICP-OES
MET-T-L-MS-ED	Water	Total Metals in Water by ICPMS (Low)	SW 846 - 6020-ICPMS
NH4-ED	Water	Ammonia-N	APHA4500NH3F Colorimetry
PH-ED	Water	pH	APHA 4500 H-Electrode
SOLIDS-TOTSUS-ED	Water	Total Suspended Solids	APHA 2540 D-Gravimetric

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

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

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

Chain of Custody Numbers:

08-012351 08-012368

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mk/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

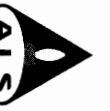
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Environmental Division



Report to: MMG Act 16023		Report Format / Distribution		Standard: _____ Other: _____		Service Requested: (rush - subject to availability)	
Company: _____		Select: PDF ☒ Excel ☐ Digital ☐		Regular (Default)		Priority (2-3 Business Days) - 50% Surcharge	
Contact: Andrew Mitchell		Email 1: Andrew Mitchell		Email 2: _____		Emergency (1 Business Day) - 100% Surcharge	
Phone: _____ Fax: _____		Client / Project Information:		Job #: _____		For Emergency < 1 Day, ASAP or Weekend - Contact ALS	
Invoice To: Same as Report? Yes / No?		PO / AFE: _____		Legal Site Description: _____		(Indicate Filtered or Preserved, F/P)	
Address: _____		Quote #: _____		Sampler: TC		Analysis Request	
Phone: _____ Fax: _____		ALS M. OLIVEK		Date		Time	
Lab Work Order # (lab use only) L827345		Sample Identification		Date		Time	
#		(This description will appear on the report)		Date		Time	
LUP-10-09-30-09 (Q21386)		Sept 30/09		1545 hrs		Water	
LUP-10-10-01-09 (Q21386)		Oct 1/09		1600 hrs		"	
LUP-10-10-02-09 (Q21386)		Oct 2/09		1615 hrs		"	
LUP-10-10-03-09 (Q21386)		Oct 3/09		1600 hrs		"	
LUP-10-10-04-09 (Q21386)		Oct 4/09		1530 hrs		"	
LUP-10-10-05-09 (Q21386)		Oct 5/09		1600 hrs		"	
LUP-10-10-05-09-B (Q21386)		"		1600 hrs		"	
LUP-10-10-05-09-W (Q21390)		"		1230 hrs		"	
LUP-10-10-05-09-W (Q21391)		"		1245 hrs		"	
LUP-10-10-05-09-W (Q21395)		"		1330 hrs		"	
LUP-10-10-05-09-W (Q21396)		"		1340 hrs		"	
LUP-10-10-05-09-W (Q21396)		"		1340 hrs		"	

Special Instructions / Regulations / Hazardous Details

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

SHIPMENT RELEASE (client use)		SHIPMENT RECEPTION (lab use only)		SHIPMENT VERIFICATION (lab use only)	
Released by: [Signature]	Date & Time: 10-6-09	Received by: RS	Date: 7-04-09	Time: 9:31	Temperature: 1.1
REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION		WHITE - REPORT COPY, PINK - FILE COPY, YELLOW - CLIENT COPY		GENE 18.00 Front	

