



LUPIN MINES INCORPORATED
ATTN: David Vokey
201-750 W Pender SE
Vancouver BC V6T 2T7

Date Received: 15-SEP-12
Report Date: 27-SEP-12 16:47 (MT)
Version: FINAL

Client Phone: 604-682-3366

Certificate of Analysis

Lab Work Order #: L1209832
Project P.O. #: NOT SUBMITTED
Job Reference: LUPIN
C of C Numbers: 09-010543
Legal Site Desc:

Shannon Akkerman
Senior Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1209832-1	LUP-10-DAILY							
Sampled By:	L. Coedy on 13-SEP-12 @ 10:30							
Matrix:	Water							
Total Metals - CCME								
Mercury (Hg) - Total								
Mercury (Hg)-Total	<0.00010			0.00010	mg/L		26-SEP-12	R2442865
Total Metals in Water by ICPMS (Low)								
Aluminum (Al)-Total	0.037			0.010	mg/L		25-SEP-12	R2442131
Antimony (Sb)-Total	<0.00040			0.00040	mg/L		25-SEP-12	R2442131
Arsenic (As)-Total	0.00758			0.00040	mg/L		25-SEP-12	R2442131
Barium (Ba)-Total	0.0153			0.0030	mg/L		25-SEP-12	R2442131
Beryllium (Be)-Total	<0.0010			0.0010	mg/L		25-SEP-12	R2442131
Boron (B)-Total	0.065			0.050	mg/L		25-SEP-12	R2442131
Cadmium (Cd)-Total	0.000217			0.000050	mg/L		25-SEP-12	R2442131
Chromium (Cr)-Total	<0.0050			0.0050	mg/L		25-SEP-12	R2442131
Cobalt (Co)-Total	0.0320			0.0020	mg/L		25-SEP-12	R2442131
Copper (Cu)-Total	0.0031			0.0010	mg/L		25-SEP-12	R2442131
Lead (Pb)-Total	0.00011			0.00010	mg/L		25-SEP-12	R2442131
Lithium (Li)-Total	0.022			0.010	mg/L		25-SEP-12	R2442131
Molybdenum (Mo)-Total	<0.0050			0.0050	mg/L		25-SEP-12	R2442131
Nickel (Ni)-Total	0.0721			0.0020	mg/L		25-SEP-12	R2442131
Selenium (Se)-Total	<0.00040			0.00040	mg/L		25-SEP-12	R2442131
Silver (Ag)-Total	0.00010			0.00010	mg/L		25-SEP-12	R2442131
Thallium (Tl)-Total	<0.00010			0.00010	mg/L		25-SEP-12	R2442131
Tin (Sn)-Total	<0.050			0.050	mg/L		25-SEP-12	R2442131
Titanium (Ti)-Total	<0.0010			0.0010	mg/L		25-SEP-12	R2442131
Uranium (U)-Total	<0.00010			0.00010	mg/L		25-SEP-12	R2442131
Vanadium (V)-Total	<0.0010			0.0010	mg/L		25-SEP-12	R2442131
Zinc (Zn)-Total	0.232			0.0040	mg/L		25-SEP-12	R2442131
Total Metals in Water by ICPOES (Low)								
Calcium (Ca)-Total	61.0			0.50	mg/L		24-SEP-12	R2442013
Iron (Fe)-Total	0.134			0.010	mg/L		24-SEP-12	R2442013
Magnesium (Mg)-Total	6.40			0.10	mg/L		24-SEP-12	R2442013
Manganese (Mn)-Total	0.681			0.0020	mg/L		24-SEP-12	R2442013
Potassium (K)-Total	5.10			0.10	mg/L		24-SEP-12	R2442013
Sodium (Na)-Total	52.5			1.0	mg/L		24-SEP-12	R2442013
Miscellaneous Parameters								
Cyanide, Total	<0.0050			0.0050	mg/L		25-SEP-12	R2443890
Total Suspended Solids	<3.0			3.0	mg/L		18-SEP-12	R2438339
pH	6.81			0.10	pH		18-SEP-12	R2437788
L1209832-2	LUP-10-WEEKLY							
Sampled By:	L. Coedy on 14-SEP-12 @ 10:30							
Matrix:	Water							
Total Metals - CCME								
Mercury (Hg) - Total								
Mercury (Hg)-Total	<0.00010			0.00010	mg/L		26-SEP-12	R2442865
Total Metals in Water by ICPMS (Low)								
Aluminum (Al)-Total	0.029			0.010	mg/L		26-SEP-12	R2443888
Antimony (Sb)-Total	<0.00040			0.00040	mg/L		26-SEP-12	R2443888
Arsenic (As)-Total	0.00687			0.00040	mg/L		26-SEP-12	R2443888
Barium (Ba)-Total	0.0131			0.0030	mg/L		26-SEP-12	R2443888
Beryllium (Be)-Total	<0.0010			0.0010	mg/L		26-SEP-12	R2443888
Boron (B)-Total	0.064			0.050	mg/L		26-SEP-12	R2443888
Cadmium (Cd)-Total	0.000194			0.000050	mg/L		26-SEP-12	R2443888
Chromium (Cr)-Total	<0.0050			0.0050	mg/L		26-SEP-12	R2443888

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

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1209832-2	LUP-10-WEEKLY							
Sampled By:	L. Coedy on 14-SEP-12 @ 10:30							
Matrix:	Water							
Total Metals in Water by ICPMS (Low)								
Cobalt (Co)-Total	0.0279			0.0020	mg/L		26-SEP-12	R2443888
Copper (Cu)-Total	0.0023			0.0010	mg/L		26-SEP-12	R2443888
Lead (Pb)-Total	<0.00010			0.00010	mg/L		26-SEP-12	R2443888
Lithium (Li)-Total	0.024			0.010	mg/L		26-SEP-12	R2443888
Molybdenum (Mo)-Total	<0.0050			0.0050	mg/L		26-SEP-12	R2443888
Nickel (Ni)-Total	0.0645			0.0020	mg/L		26-SEP-12	R2443888
Selenium (Se)-Total	<0.00040			0.00040	mg/L		26-SEP-12	R2443888
Silver (Ag)-Total	<0.00010			0.00010	mg/L		26-SEP-12	R2443888
Thallium (Tl)-Total	<0.00010			0.00010	mg/L		26-SEP-12	R2443888
Tin (Sn)-Total	<0.050			0.050	mg/L		26-SEP-12	R2443888
Titanium (Ti)-Total	<0.0010			0.0010	mg/L		26-SEP-12	R2443888
Uranium (U)-Total	<0.00010			0.00010	mg/L		26-SEP-12	R2443888
Vanadium (V)-Total	<0.0010			0.0010	mg/L		26-SEP-12	R2443888
Zinc (Zn)-Total	0.217			0.0040	mg/L		26-SEP-12	R2443888
Total Metals in Water by ICPOES (Low)								
Calcium (Ca)-Total	60.7			0.50	mg/L		25-SEP-12	R2442971
Iron (Fe)-Total	0.131			0.010	mg/L		25-SEP-12	R2442971
Magnesium (Mg)-Total	6.16			0.10	mg/L		25-SEP-12	R2442971
Manganese (Mn)-Total	0.694			0.0020	mg/L		25-SEP-12	R2442971
Potassium (K)-Total	4.94			0.10	mg/L		25-SEP-12	R2442971
Sodium (Na)-Total	55.7			1.0	mg/L		25-SEP-12	R2442971
Miscellaneous Parameters								
Alkalinity, Total (as CaCO3)	<5.0			5.0	mg/L		18-SEP-12	R2437788
Ammonia, Total (as N)	0.066			0.050	mg/L		24-SEP-12	R2441768
Cyanide, Total	<0.0050			0.0050	mg/L		25-SEP-12	R2443890
Total Suspended Solids	<3.0			3.0	mg/L		18-SEP-12	R2438339
pH	6.63			0.10	pH		18-SEP-12	R2437788

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

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ALK-TOT-ED	Water	Alkalinity, Total	APHA 2320 B-Auto-Pot. Titration
CN-T-CFA-VA	Water	Total Cyanide in water by CFA	ISO 14403:2002
This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis. Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero.			
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
NH3-CFA-ED	Water	Ammonia in Water by Colour	APHA 4500 NH3-NITROGEN (AMMONIA)
This analysis is carried out using procedures adapted from APHA Method 4500 NH3 "NITROGEN (AMMONIA)". Ammonia is determined using the automated phenate colourimetric method.			
PH-ED	Water	pH	APHA 4500 H-Electrode
All samples analyzed by this method for pH will have exceeded the 15 minute recommended hold time from time of sampling (field analysis is recommended for pH where highly accurate results are needed)			
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
ED	ALS ENVIRONMENTAL - EDMONTON, ALBERTA, CANADA
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:

09-010543

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

mg/kg ww - 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.



Quality Control Report

Workorder: L1209832

Report Date: 27-SEP-12

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Client: LUPIN MINES INCORPORATED
201-750 W Pender SE
Vancouver BC V6T 2T7

Contact: David Vokey

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ALK-TOT-ED		Water						
Batch	R2437788							
WG1548166-12	DUP	L1210283-1						
Alkalinity, Total (as CaCO3)		275	273		mg/L	0.7	20	19-SEP-12
WG1548166-4	LCS							
Alkalinity, Total (as CaCO3)			102.8		%		85-115	18-SEP-12
WG1548166-1	MB							
Alkalinity, Total (as CaCO3)			<5.0		mg/L		5	18-SEP-12
CN-T-CFA-VA		Water						
Batch	R2443890							
WG1553349-17	DUP	L1209491-1						
Cyanide, Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	25-SEP-12
WG1553349-3	DUP	L1209566-11						
Cyanide, Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	25-SEP-12
WG1553349-7	DUP	L1210328-11						
Cyanide, Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	25-SEP-12
WG1553349-10	LCS							
Cyanide, Total			91.5		%		80-120	25-SEP-12
WG1553349-14	LCS							
Cyanide, Total			90.5		%		80-120	25-SEP-12
WG1553349-16	LCS							
Cyanide, Total			91.0		%		80-120	25-SEP-12
WG1553349-2	LCS							
Cyanide, Total			91.2		%		80-120	25-SEP-12
WG1553349-21	LCS							
Cyanide, Total			89.9		%		80-120	25-SEP-12
WG1553349-6	LCS							
Cyanide, Total			92.0		%		80-120	25-SEP-12
WG1553349-1	MB							
Cyanide, Total			<0.0050		mg/L		0.005	25-SEP-12
WG1553349-13	MB							
Cyanide, Total			<0.0050		mg/L		0.005	25-SEP-12
WG1553349-15	MB							
Cyanide, Total			<0.0050		mg/L		0.005	25-SEP-12
WG1553349-20	MB							
Cyanide, Total			<0.0050		mg/L		0.005	25-SEP-12
WG1553349-5	MB							
Cyanide, Total			<0.0050		mg/L		0.005	25-SEP-12
WG1553349-9	MB							
Cyanide, Total			<0.0050		mg/L		0.005	25-SEP-12

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Client: LUPIN MINES INCORPORATED
201-750 W Pender SE
Vancouver BC V6T 2T7

Contact: David Vokey

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CN-T-CFA-VA		Water						
Batch	R2443890							
WG1553349-4 MS		L1209566-11						
Cyanide, Total			95.4		%		70-130	25-SEP-12
WG1553349-8 MS		L1210328-11						
Cyanide, Total			98.4		%		70-130	25-SEP-12
HG-T-CVAA-ED		Water						
Batch	R2442865							
WG1553267-4 DUP		L1209832-1						
Mercury (Hg)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	26-SEP-12
WG1553267-2 LCS								
Mercury (Hg)-Total			112.6		%		80-120	25-SEP-12
WG1553267-1 MB								
Mercury (Hg)-Total			<0.00010		mg/L		0.0001	25-SEP-12
WG1553267-5 MS		L1209832-1						
Mercury (Hg)-Total			83.9		%		70-130	26-SEP-12
MET-T-L-ICP-ED		Water						
Batch	R2442013							
WG1551924-3 DUP		L1209832-1						
Calcium (Ca)-Total		61.0	63.2		mg/L	3.5	20	24-SEP-12
Iron (Fe)-Total		0.134	0.143		mg/L	6.3	20	24-SEP-12
Magnesium (Mg)-Total		6.40	6.73		mg/L	5.1	20	24-SEP-12
Manganese (Mn)-Total		0.681	0.718		mg/L	5.2	20	24-SEP-12
Potassium (K)-Total		5.10	5.48		mg/L	7.2	20	24-SEP-12
Sodium (Na)-Total		52.5	56.0		mg/L	6.4	20	24-SEP-12
WG1551924-2 LCS								
Calcium (Ca)-Total			97.5		%		80-120	24-SEP-12
Iron (Fe)-Total			99.4		%		80-120	24-SEP-12
Magnesium (Mg)-Total			95.8		%		80-120	24-SEP-12
Manganese (Mn)-Total			97.4		%		80-120	24-SEP-12
Potassium (K)-Total			93.8		%		80-120	24-SEP-12
Sodium (Na)-Total			97.7		%		80-120	24-SEP-12
WG1551924-1 MB								
Calcium (Ca)-Total			<0.50		mg/L		0.5	24-SEP-12
Iron (Fe)-Total			<0.010		mg/L		0.01	24-SEP-12
Magnesium (Mg)-Total			<0.10		mg/L		0.1	24-SEP-12
Manganese (Mn)-Total			<0.0020		mg/L		0.002	24-SEP-12
Potassium (K)-Total			<0.10		mg/L		0.1	24-SEP-12



Quality Control Report

Workorder: L1209832

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Client: LUPIN MINES INCORPORATED
201-750 W Pender SE
Vancouver BC V6T 2T7

Contact: David Vokey

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-ICP-ED		Water						
Batch	R2442013							
WG1551924-1 MB								
Sodium (Na)-Total			<1.0		mg/L		1	24-SEP-12
Batch	R2442971							
WG1553273-1 MB								
Calcium (Ca)-Total			<0.50		mg/L		0.5	25-SEP-12
Iron (Fe)-Total			<0.010		mg/L		0.01	25-SEP-12
Magnesium (Mg)-Total			<0.10		mg/L		0.1	25-SEP-12
Manganese (Mn)-Total			<0.0020		mg/L		0.002	25-SEP-12
Potassium (K)-Total			<0.10		mg/L		0.1	25-SEP-12
Sodium (Na)-Total			<1.0		mg/L		1	25-SEP-12
MET-T-L-MS-ED		Water						
Batch	R2442131							
WG1551924-3 DUP		L1209832-1						
Aluminum (Al)-Total		0.037	0.045		mg/L	19	20	25-SEP-12
Antimony (Sb)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	25-SEP-12
Arsenic (As)-Total		0.00758	0.00744		mg/L	1.8	20	25-SEP-12
Barium (Ba)-Total		0.0153	0.0148		mg/L	2.9	20	25-SEP-12
Beryllium (Be)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	25-SEP-12
Boron (B)-Total		0.065	0.0652		mg/L	0.1	20	25-SEP-12
Cadmium (Cd)-Total		0.000217	0.000208		mg/L	4.2	20	25-SEP-12
Chromium (Cr)-Total		<0.0050	<0.00080	RPD-NA	mg/L	N/A	20	25-SEP-12
Cobalt (Co)-Total		0.0320	0.0312		mg/L	2.5	20	25-SEP-12
Copper (Cu)-Total		0.0031	0.0030		mg/L	0.8	20	25-SEP-12
Lead (Pb)-Total		0.00011	<0.00010	RPD-NA	mg/L	N/A	20	25-SEP-12
Lithium (Li)-Total		0.022	0.0213		mg/L	4.7	20	25-SEP-12
Molybdenum (Mo)-Total		<0.0050	<0.00010	RPD-NA	mg/L	N/A	20	25-SEP-12
Nickel (Ni)-Total		0.0721	0.0697		mg/L	3.3	20	25-SEP-12
Selenium (Se)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	25-SEP-12
Silver (Ag)-Total		0.00010	<0.00010	RPD-NA	mg/L	N/A	20	25-SEP-12
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	25-SEP-12
Tin (Sn)-Total		<0.050	<0.00040	RPD-NA	mg/L	N/A	20	25-SEP-12
Titanium (Ti)-Total		<0.0010	<0.00060	RPD-NA	mg/L	N/A	20	25-SEP-12
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	25-SEP-12



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Client:

LUPIN MINES INCORPORATED

201-750 W Pender SE

Vancouver BC V6T 2T7

Contact:

David Vokey

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-ED		Water						
Batch	R2442131							
WG1551924-3	DUP	L1209832-1						
Vanadium (V)-Total		<0.0010	<0.00050	RPD-NA	mg/L	N/A	20	25-SEP-12
Zinc (Zn)-Total		0.232	0.224		mg/L	3.7	20	25-SEP-12
WG1551924-2		LCS						
Aluminum (Al)-Total			107.9		%		80-120	24-SEP-12
Antimony (Sb)-Total			111.0		%		80-120	24-SEP-12
Arsenic (As)-Total			111.3		%		80-120	24-SEP-12
Barium (Ba)-Total			106.5		%		80-120	24-SEP-12
Beryllium (Be)-Total			104.3		%		80-120	24-SEP-12
Boron (B)-Total			99.9		%		80-120	24-SEP-12
Cadmium (Cd)-Total			104.7		%		80-120	24-SEP-12
Chromium (Cr)-Total			110.6		%		80-120	24-SEP-12
Cobalt (Co)-Total			106.1		%		80-120	24-SEP-12
Copper (Cu)-Total			105.3		%		80-120	24-SEP-12
Lead (Pb)-Total			106.8		%		80-120	24-SEP-12
Lithium (Li)-Total			102.0		%		80-120	24-SEP-12
Molybdenum (Mo)-Total			115.8		%		80-120	24-SEP-12
Nickel (Ni)-Total			110.2		%		80-120	24-SEP-12
Selenium (Se)-Total			112.5		%		80-120	24-SEP-12
Silver (Ag)-Total			96.3		%		80-120	24-SEP-12
Thallium (Tl)-Total			108.5		%		80-120	24-SEP-12
Tin (Sn)-Total			111.5		%		80-120	24-SEP-12
Titanium (Ti)-Total			100.6		%		80-120	24-SEP-12
Uranium (U)-Total			108.8		%		80-120	24-SEP-12
Vanadium (V)-Total			109.3		%		80-120	24-SEP-12
Zinc (Zn)-Total			102.6		%		80-120	24-SEP-12
WG1551924-1		MB						
Aluminum (Al)-Total			<0.010		mg/L		0.01	24-SEP-12
Antimony (Sb)-Total			<0.00040		mg/L		0.0004	24-SEP-12
Arsenic (As)-Total			<0.00040		mg/L		0.0004	24-SEP-12
Barium (Ba)-Total			<0.00020		mg/L		0.0002	24-SEP-12
Beryllium (Be)-Total			<0.0010		mg/L		0.001	24-SEP-12
Boron (B)-Total			<0.0040		mg/L		0.004	24-SEP-12
Cadmium (Cd)-Total			<0.000050		mg/L		0.00005	24-SEP-12
Chromium (Cr)-Total			<0.00080		mg/L		0.0008	24-SEP-12

Quality Control Report

Workorder: L1209832

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Client: LUPIN MINES INCORPORATED
201-750 W Pender SE
Vancouver BC V6T 2T7

Contact: David Vokey

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-ED		Water						
Batch R2442131								
WG1551924-1 MB								
Cobalt (Co)-Total			<0.00020		mg/L		0.0002	24-SEP-12
Copper (Cu)-Total			<0.0010		mg/L		0.001	24-SEP-12
Lead (Pb)-Total			<0.00010		mg/L		0.0001	24-SEP-12
Lithium (Li)-Total			<0.0060		mg/L		0.006	24-SEP-12
Molybdenum (Mo)-Total			<0.00010		mg/L		0.0001	24-SEP-12
Nickel (Ni)-Total			<0.00020		mg/L		0.0002	24-SEP-12
Selenium (Se)-Total			<0.00040		mg/L		0.0004	24-SEP-12
Silver (Ag)-Total			<0.00010		mg/L		0.0001	24-SEP-12
Thallium (Tl)-Total			<0.00010		mg/L		0.0001	24-SEP-12
Tin (Sn)-Total			<0.00040		mg/L		0.0004	24-SEP-12
Titanium (Ti)-Total			<0.00060		mg/L		0.0006	24-SEP-12
Uranium (U)-Total			<0.00010		mg/L		0.0001	24-SEP-12
Vanadium (V)-Total			<0.00050		mg/L		0.0005	24-SEP-12
Zinc (Zn)-Total			<0.0040		mg/L		0.004	24-SEP-12
Batch R2443888								
WG1553273-1 MB								
Aluminum (Al)-Total			<0.010		mg/L		0.01	26-SEP-12
Antimony (Sb)-Total			<0.00040		mg/L		0.0004	26-SEP-12
Arsenic (As)-Total			<0.00040		mg/L		0.0004	26-SEP-12
Barium (Ba)-Total			<0.00020		mg/L		0.0002	26-SEP-12
Beryllium (Be)-Total			<0.0010		mg/L		0.001	26-SEP-12
Boron (B)-Total			<0.0040		mg/L		0.004	26-SEP-12
Cadmium (Cd)-Total			<0.000050		mg/L		0.00005	26-SEP-12
Chromium (Cr)-Total			<0.00080		mg/L		0.0008	26-SEP-12
Cobalt (Co)-Total			<0.00020		mg/L		0.0002	26-SEP-12
Copper (Cu)-Total			<0.0010		mg/L		0.001	26-SEP-12
Lead (Pb)-Total			<0.00010		mg/L		0.0001	26-SEP-12
Lithium (Li)-Total			<0.0060		mg/L		0.006	26-SEP-12
Molybdenum (Mo)-Total			<0.00010		mg/L		0.0001	26-SEP-12
Nickel (Ni)-Total			<0.00020		mg/L		0.0002	26-SEP-12
Selenium (Se)-Total			<0.00040		mg/L		0.0004	26-SEP-12
Silver (Ag)-Total			<0.00010		mg/L		0.0001	26-SEP-12
Thallium (Tl)-Total			<0.00010		mg/L		0.0001	26-SEP-12
Tin (Sn)-Total			<0.00040		mg/L		0.0004	26-SEP-12



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Client: LUPIN MINES INCORPORATED
201-750 W Pender SE
Vancouver BC V6T 2T7

Contact: David Vokey

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-ED	Water							
Batch R2443888								
WG1553273-1 MB								
Titanium (Ti)-Total			<0.00060		mg/L		0.0006	26-SEP-12
Uranium (U)-Total			<0.00010		mg/L		0.0001	26-SEP-12
Vanadium (V)-Total			<0.00050		mg/L		0.0005	26-SEP-12
Zinc (Zn)-Total			<0.0040		mg/L		0.004	26-SEP-12
NH3-CFA-ED	Water							
Batch R2441768								
WG1552201-7 DUP		L1208242-4						
Ammonia, Total (as N)		<0.050	<0.050	RPD-NA	mg/L	N/A	20	24-SEP-12
WG1552201-9 DUP		L1213299-1						
Ammonia, Total (as N)		1.21	1.19		mg/L	1.9	20	24-SEP-12
WG1552201-2 LCS								
Ammonia, Total (as N)			94.3		%		85-115	24-SEP-12
WG1552201-1 MB								
Ammonia, Total (as N)			<0.050		mg/L		0.05	24-SEP-12
WG1552201-6 MS		L1211666-2						
Ammonia, Total (as N)			95.9		%		75-125	24-SEP-12
WG1552201-8 MS		L1212025-1						
Ammonia, Total (as N)			98.8		%		75-125	24-SEP-12
PH-ED	Water							
Batch R2437788								
WG1548166-9 DUP		L1203443-3						
pH		8.50	8.51	J	pH	0.01	0.2	18-SEP-12
WG1548166-3 LCS								
pH			6.98		pH		6.9-7.1	18-SEP-12
SOLIDS-TOTSUS-ED	Water							
Batch R2438339								
WG1548199-3 DUP		L1203441-3						
Total Suspended Solids		20.0	24.0		mg/L	18	20	18-SEP-12
WG1548199-4 DUP		L1209814-1						
Total Suspended Solids		<3.0	<3.0	RPD-NA	mg/L	N/A	20	18-SEP-12
WG1548199-5 DUP		L1210316-2						
Total Suspended Solids		<3.0	<3.0	RPD-NA	mg/L	N/A	20	18-SEP-12
WG1548199-2 LCS								
Total Suspended Solids			98.0		%		85-115	18-SEP-12
WG1548199-1 MB								
Total Suspended Solids			<3.0		mg/L		3	18-SEP-12

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Contact: David Vokey

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

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Contact: David Vokey

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Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
pH	1	13-SEP-12 10:30	18-SEP-12 18:24	0.25	128	hours	EHTR-FM
	2	14-SEP-12 10:30	18-SEP-12 18:30	0.25	104	hours	EHTR-FM

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L1209832 were received on 15-SEP-12 10:53.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



Report To		Report Format / Distribution			Service Requested: (Rush subject to availability)										
Company: <u>Elgin Mining - Lupin Mine</u>		Standard: <u>X</u> Other (specify): _____			☒ Regular (Standard Turnaround Times)										
Contact: <u>D. Vokey</u>		Select: PDF <u>X</u> Excel <u>X</u> Digital _____ Fax _____			Priority, Date Req'd: _____ (Surcharges apply)										
Address: <u>201-750 W. Pender SE.</u>		Email 1: <u>avokey@elginmining.com</u>			Emergency (1 Business Day) - 100% Surcharge										
Phone: <u>604-682-3366</u> Fax: <u>604-682-3363</u>		Email 2: <u>alandrun@SRR.com</u>			For Emergency < 1 Day, ASAP or Weekend - Contact ALS										
Invoice To		Client / Project Information			Analysis Request										
Same as Report? (circle) <u>Yes</u> or No (if No, provide details)		Job #: <u>Lupin</u>			(Indicate Filtered or Preserved, F/P)										
Copy of Invoice with Report? (circle) <u>Yes</u> or No		PO / AFE:													
Company:		LSD:													
Contact:		Quote #: <u>Q35666</u>													
Address:		ALS													
Phone:		Contact: <u>S. Bethune</u>													
Fax:		Sampler: <u>L. Loedy</u>													
Lab Work Order # (lab use only) <u>L1209832</u>															
Sample #	Sample Identification (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type	PH	TSS	CN	T-Metal/SCA	Alkalinity	NH4					Number of Containers
	<u>Lup-10-daily</u>	<u>13/09/12</u>	<u>16:30</u>	<u>water</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>					<u>3</u>
	<u>Lup-10-weekly</u>	<u>14/09/12</u>	<u>10:00</u>	<u>water</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>					<u>4</u>
 L1209832-COFC															
Special Instructions / Regulations / Hazardous Details															
<u>①</u> <u>CN not pres.</u> 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:	Date:	Time:	Received by:	Date:	Time:	Temperature:	Verified by:	Date:	Time:	Observations: Yes / No ? If Yes add SIF					
			<u>[Signature]</u>	<u>14-Sep-12</u>	<u>1500</u>	<u>5 °C</u>									
REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION				WHITE - LABORATORY COPY				YELLOW - CLIENT COPY				GENF 18.01 Front			