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Acme Analytical Laboratories (Vancouver) Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: **Richards, Gordon**
6410 Holly Park Drive
Delta BC V4K 4W6 Canada

Submitted By: Gordon Richards
Receiving Lab: Canada-Vancouver
Received: August 08, 2013
Report Date: August 22, 2013
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CERTIFICATE OF ANALYSIS

VAN13003078.1

CLIENT JOB INFORMATION

Project: LAKE
Shipment ID:
P.O. Number
Number of Samples: 4

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Richards, Gordon
6410 Holly Park Drive
Delta BC V4K 4W6
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	4	Dry at 60C			VAN
SS80	4	Dry at 60C sieve 100g to -80 mesh			VAN
1F02	4	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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CERTIFICATE OF ANALYSIS

VAN13003078.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
W2	Silt	0.56	10.54	5.22	41.8	67	10.8	5.5	210	1.42	3.3	2.1	5.5	3.4	35.1	0.12	0.29	0.10	23	0.60	0.061
W3	Silt	1.92	11.04	4.67	25.9	44	10.2	5.1	160	1.34	4.9	1.9	3.5	3.8	20.3	0.06	0.43	0.09	27	0.33	0.046
W4	Silt	2.86	16.72	5.87	36.1	57	12.4	7.6	277	1.73	5.1	3.9	2.4	5.0	24.3	0.10	0.45	0.15	33	0.44	0.051
W5	Silt	1.50	12.87	6.10	44.0	82	11.9	7.6	563	1.82	5.9	7.5	7.8	4.3	42.1	0.16	0.36	0.10	30	0.75	0.062



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CERTIFICATE OF ANALYSIS

VAN13003078.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
		MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02
W2	Silt	12.9	14.7	0.33	166.6	0.044	2	0.89	0.009	0.07	0.2	2.2	0.06	<0.02	37	0.2	<0.02	3.0
W3	Silt	11.1	13.1	0.25	156.3	0.044	<1	0.72	0.007	0.04	0.3	1.9	0.04	<0.02	30	0.3	0.02	2.3
W4	Silt	15.4	14.2	0.35	164.4	0.073	1	0.93	0.007	0.18	0.2	2.6	0.08	<0.02	20	0.4	0.02	3.2
W5	Silt	18.4	15.3	0.33	174.8	0.043	2	0.95	0.008	0.10	0.2	2.6	0.06	0.05	33	0.5	<0.02	3.2



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QUALITY CONTROL REPORT

VAN13003078.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Reference Materials																					
STD DS9	Standard	12.95	112.1	127.8	318.4	1895	40.2	7.6	587	2.39	25.9	2.7	125.9	6.3	68.5	2.44	5.65	6.84	41	0.71	0.082
STD DS9 Expected		12.84	108	126	317	1830	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001

QUALITY CONTROL REPORT

VAN13003078.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	
Reference Materials																		
STD DS9	Standard	12.7	121.7	0.63	311.6	0.108	3	0.99	0.096	0.42	3.3	2.6	5.54	0.17	218	5.4	5.30	4.8
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	2.5	5.3	0.1615	200	5.2	5.02	4.59
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1