GM 66693

REPORT ON HUMUS SAMPLING, CHAVIGNY PROPERTY

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Report on humus sampling
Chavigny Property
Abitibi, Québec

GM 66693

Lakeside Minerals Corp.
October 2012

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Geologist, Ph.D.
OGQ member 290

INLANDSIS
Consultants

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Summary

Humus pedogeochememical sampling was used as a surface exploration technique by Lakeside Minerals Corp. on their Chavigny claim block, which returned an anomaly of interest where gold is associated with anomalous pathfinder elements.

The property is located southwest of the town of Taschereau in Privat Township of Abitibi. The property is readily accessible from a paved road at its southern border. It is made of 4 claims totalling 170 hectares.

The property straddles the potentially gold bearing Macamic fault within aArchean aged volcanic rocks of the Abitibi subprovince. This fault zone hosts two gold showings respectively near the western and eastern limits of the property.

The present orientation study was performed during the spring of 2012 and consisted in a single NNE-SSW sampling transect across the Macamic fault zone. The samples were taken at every 25 m and, although the transect follows an ancient cutted line, the positioning was acquired by the use of handheld GPS. About 200 g of humus were collected in paper bags for drying and were sent to Acme Lab of Vancouver for ICP MS analysis following sieving, *Aqua Regia* digestion and ultra-trace analysis (including gold) by ICP MS. Analytical results were treated for the establishment of anomalous threshold as the average plus two standard-deviations and these significant results were contoured on a map. The study reveals a gold anomaly of interest in the southern part of the sampling line where gold is accompanied with Sb-Bi-Pb-Cu-Hg in two contiguous samples. Although this gold anomaly consist of two samples of low absolute values (14.4 ppb Au and 12.0 ppb Au) it might be considered as significant, provided it reflects ionic transport from an underlying mineralized body. Accordingly, it is recommended to perform a quick follow-up designed to precise the sedimentary cover and to confirm the ionic nature of the geochemical signal.

Introduction

The present report provides a description of the geological setting and exploration works carried out in June 2012, on the Chavigny claim block by Lakeside Minerals Corp. (Lakeside).

Location, access and physiography

The Chavigny property is located 5 km southwest of Taschereau, in Privat Township of the Abitibi region of Québec (Figure 1), and is easily accessed from a paved road running along its southern border. The topography is almost flat, with elevation ranging from 280 m to 300 m above sea level. Topography is depicted on the 32D10 NTS map, at the scale 1: 50 000. The area is influenced by a temperate climate, with short warm summers and harsh winters. The average daily temperature is of 2°C. The warmest month is July when average daily temperature is 14 °C and the coldest month is January, with an average temperature of -16 °C. Annual precipitation reaches nearly 1 m (928 mm). The ground is generally free of snow early May to early November. Vegetation is characterized with forest of black spruce and moss on swampy plain and aspen on dryer land. The property lay slightly west of Chavigny Lake.

Claim Status

The Chavigny property consists in four map-designated claims (CDC) corresponding to four contiguous lots (no 25 to 28) on range V of the Privat Township (Table 1). These were acquired from a group of Prospectors and they cover a surface area of 170 hectares. The claims and are in good standing, according to the GESTIM database accessed by Oct 1st 2012.

Table 1. Claim list.

Claim#	Range	Lot	Area (ha)	Registry	Expiry
2241834	V	0025	42.54	10/07/22	14/07/21
2241841	V	0027	42.54	10/07/22	14/07/21
2241842	V	0026	42.54	10/07/22	14/07/21
2241843	V	0028	42.55	10/07/22	14/07/21
Total			170.17		

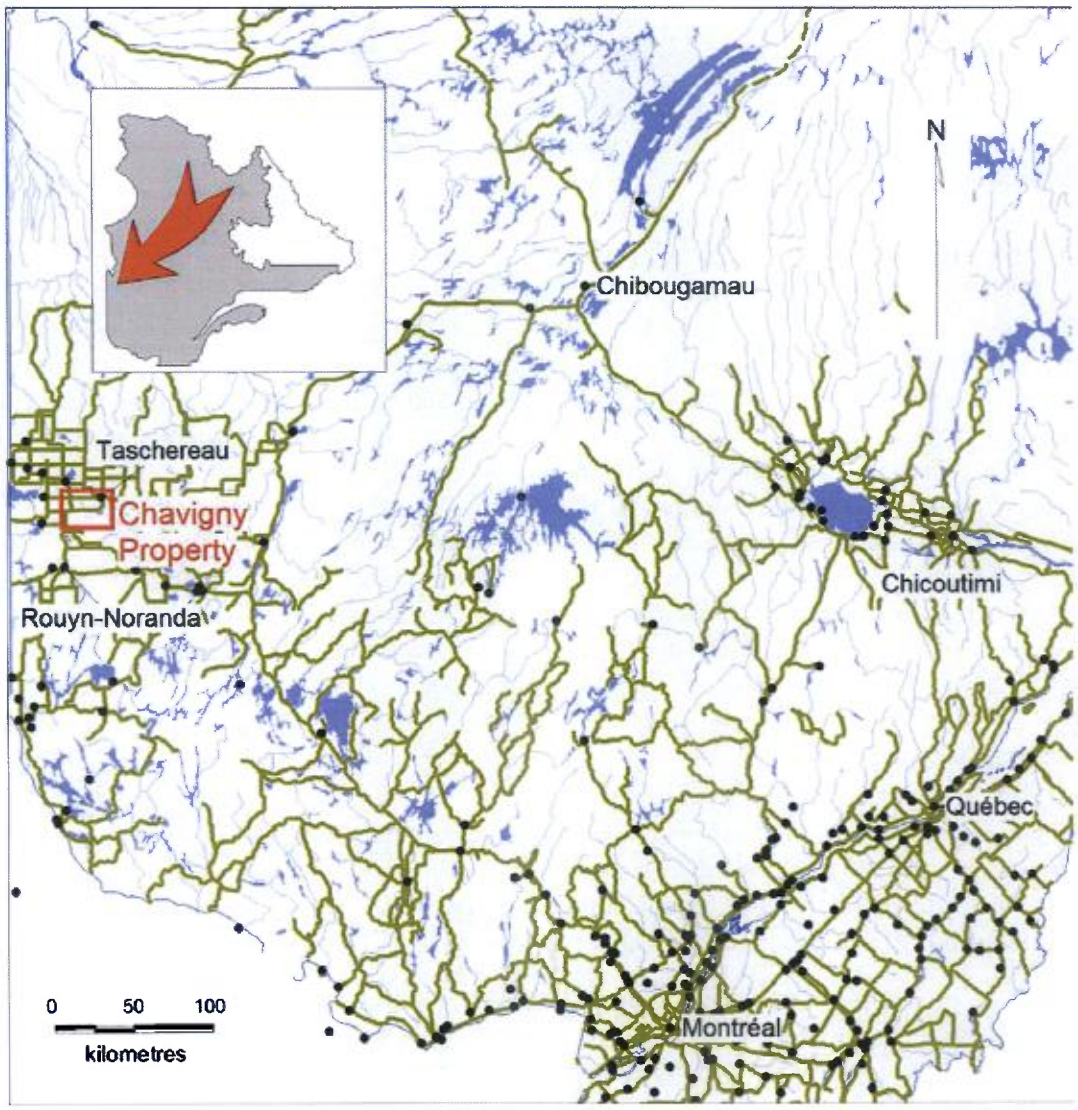

Figure 1. Location map.

Geology and mineralization

The Chavigny property is located along the Macamic fault, a NW-SE oriented ductile shear zone bringing pillowed basalts and andesites of the Figuery Group in contact with dacite and felsic tuffs of the Hunter Group. These reside in the southern part of the Abitibi subprovince, a subdivision of the Archean aged, Superior geological province. The stratigraphic units are dominated by massive to pillowed basaltic tholeiitic lavas, mafic tuffs and iron formations overlying a sequence of calco-alcaline andesitic to dacitic lavas and tuffs (Lacroix *et al.* 1990,Verpaelst and Hocq 1991).

This fault zone hosts two known gold occurrences on each side of the property (Figure 2). The 88-04 drilling intersect (1.2 g/t Au over 0.6 m) and the lac Chavigny Ouest intersect (4.11 g/t Au over 0.76 m). Both intersect gold bearing veins, respectively on the western and eastern limits of the Chavigny claim block. Gold mineralization appears to belong to Archean lode gold type (Robert *et al.* 1997), which may occurs as disseminated or vein-hosted mineralization.

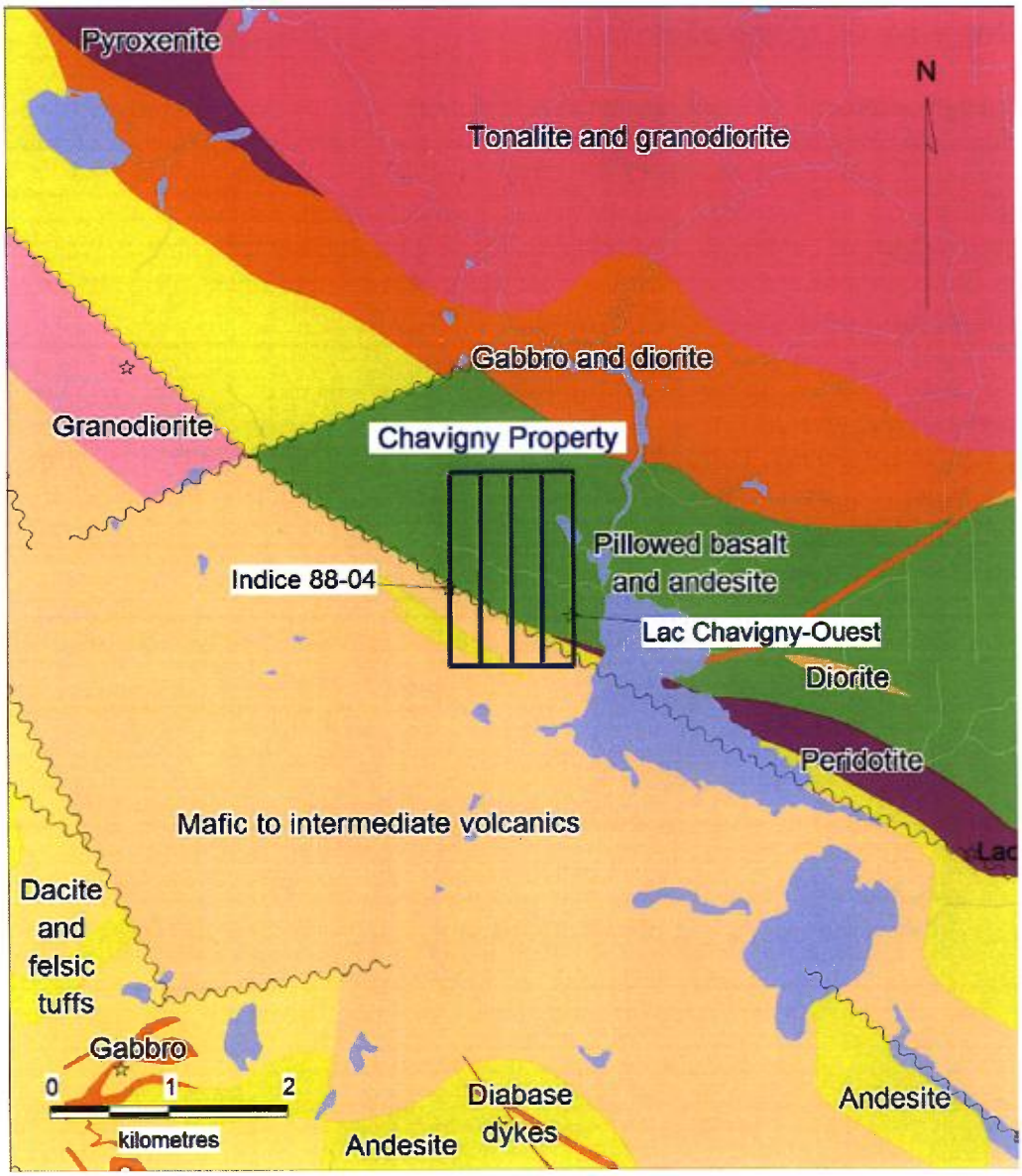

Figure 2. Geology (after Lamothe and Harris 2006).

Glacial Geology

The area occurs within a wide glacio-lacustrine plain, sometimes referred to as the Abitibi Clay Belt. Accordingly, the property presents a thick cover of silty clay with a few outcropping zones (Prest *et al.* 1967, Fulton 1995). Nearby glacial striations reported by Tremblay 1974 and local streamlined landforms mapped by Veillette *et al.* 2003, indicate a dominant ice flow to the southeast (160°). The known ice flow sequence for Abitibi implies older ice flows to the southwest and to the south (Veillette 1986).

Previous works

Previous geochemical survey included the regional basal till sampling by pionjar drilling of the Québec Ministry of Natural Resources (Lalonde and LaSalle 1982) which returned detectable gold values immediately downice from the property.

Method

Field sampling

A total of 41 samples of humus were collected on May15th 2012, along a continuous NNE-SSW transect drawn across the central part of the property (Figure 3). Sample spacing is of 25 metres and sampling depth ranges from 0 cm to 10 cm on drained terrain with genuine humus material, and may reach 30 cm to 70 cm on marsh where thick accumulations of organic material are present (Appendix I). Field work was carried out by the Author and Jean-Philippe Mai, Lakeside's Geologist. Positioning and material descriptors were acquired by the use of a hand held GPS. Organic material was collected by hand shovel on drained condition and by the use of an auger probe on marsh condition. Sample of about 200 grams were collected in paper bags to facilitate drying. One bag was discarded so that 40 samples were shipped to Acme Laboratories in Vancouver for drying, sieving, *aqua regia* partial digestion and analysis by ICP MS for Au plus 36 additional elements (Appendix II).

Data processing

Calculations and statistical treatment were performed in computer spreadsheet (Microsoft Excel™) while map visualisation and contouring of multi-elements anomalies were achieved by the use of MapInfo™ GIS software. Anomalous contours were drawn by using the average plus two standard deviations as threshold.

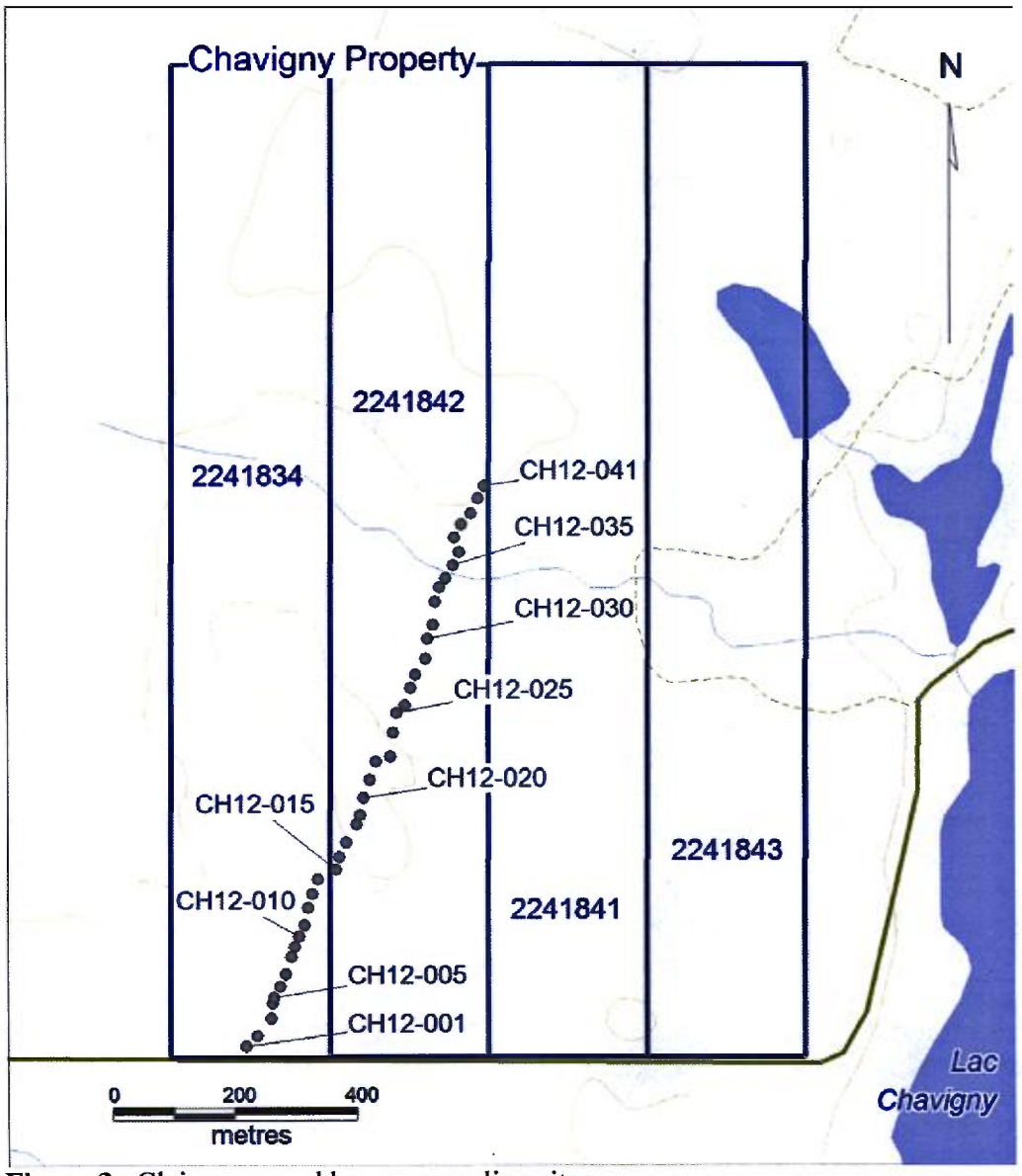

Figure 3. Claim map and humus sampling sites.

Results

Analytical results are presented in Appendix II and basic statistics appear in Table 2. The selected "ultra trace" analytical package offers very sensible lower limits so that most analytes returned a majority of detected values, except for Tungsten (W). Humus geochemistry reveals a single gold anomaly of interest in two contiguous sampling sites (CH007 and CH008) near the southern end of the sample line (Figure 4). This anomaly presents low gold values of 14.4 ppb Au and 12.0 ppb Au accompanied with anomalous pathfinder elements: (1) Sb-Bi-Pb in both samples, plus (2) Cu-Hg restricted to one of the samples and (3) Boron (B) in the next sampling site to the south.

Table 2. Basic statistics on humus geochemical results.

Analyte	Unit	LDL*	Min	Avg	Max	St-Dev	Tresh.
Au	PPB	0.2	0.2	5.0	14.4	3.3	11.6
Mo	PPM	0.01	0.25	1.0	3.36	0.6	2.2
Cu	PPM	0.01	5.57	44.3	105.7	24.8	93.9
Pb	PPM	0.01	2.77	70.2	240.35	56.0	182.1
Zn	PPM	0.1	8.3	65.6	215	54.2	173.9
Ag	PPB	2	45	306.7	798	178.9	664.5
Ni	PPM	0.1	2.9	11.7	27.5	6.3	24.3
Co	PPM	0.1	0.8	5.4	24.5	5.9	17.3
Mn	PPM	1	20	519.7	5689	955.0	2429.8
Fe	%	0.01	0.13	1.1	4.91	1.2	3.4
As	PPM	0.1	1.2	7.8	38.2	8.3	24.4
U	PPM	0.1	0.1	0.5	2.8	0.5	1.4
Th	PPM	0.1	0.1	0.4	1.7	0.4	1.2
Sr	PPM	0.5	10.5	46.6	124.3	25.8	98.1
Cd	PPM	0.01	0.19	2.4	6.89	1.5	5.4
Sb	PPM	0.02	0.05	0.5	1.72	0.4	1.2
Bi	PPM	0.02	0.02	1.7	6.43	1.5	4.7
V	PPM	2	2	14.6	74	14.1	42.8
Ca	%	0.01	0.07	1.0	2.76	0.6	2.2
P	%	0.001	0.04	0.1	0.14	0.0	0.1
La	PPM	0.5	1.7	10.6	36.5	8.0	26.6
Cr	PPM	0.5	2.9	17.2	55.8	12.1	41.4
Mg	%	0.01	0.02	0.2	0.56	0.2	0.5
Ba	PPM	0.5	30.8	80.6	219.1	40.4	161.4
Ti	%	0.001	0.003	0.0	0.057	0.0	0.1
B	PPM	1	2	5.2	12	2.4	10.1
Al	%	0.01	0.13	0.8	2.75	0.6	2.0
Na	%	0.001	0.003	0.0	0.033	0.0	0.0
K	%	0.01	0.02	0.1	0.31	0.1	0.2
W	PPM	0.1	0.1	0.1	0.2	0.0	0.1
Sc	PPM	0.1	0.3	1.3	4.1	0.8	3.0
Tl	PPM	0.02	0.03	0.1	0.32	0.1	0.2
S	%	0.02	0.09	0.2	0.48	0.1	0.4
Hg	PPB	5	94	220.8	461	81.8	384.4
Se	PPM	0.1	0.5	1.8	3.8	1.0	3.8
Te	PPM	0.02	0.02	0.3	2.07	0.4	1.2
Ga	PPM	0.1	0.5	2.8	9.6	2.3	7.5

*LDL = Lower detection limit, Min = minimum value, Avg = average, Max = Maximum value, St-Dev – standard deviation, Tresh = anomalous threshold as average plus two standard deviation.

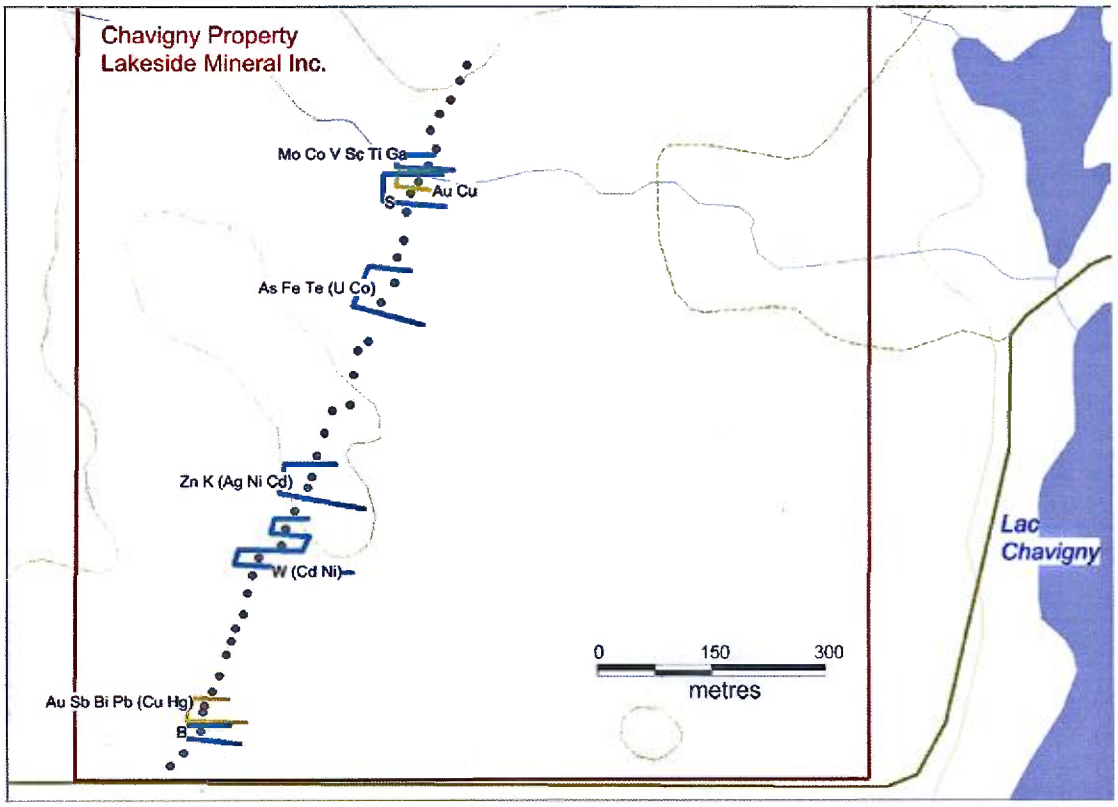

Figure 4. Humus geochemical results (gold anomaly in yellow and hydrothermal association in blue contours).

A second gold anomaly is contoured in the northern part of the sampling line. Despite interesting multi-element association in nearby sites (Mo-Co-Ti-Cu-S) the northern anomaly is of lower interest for gold because the geochemical signal is weak (sligthly less than the anomalous threshold) and restricted to a single sampling site. Other anomalous contours appear on Figure 4 and reflects significant hydrothermal activity associated with the Macamic fault, which confirm its mineral potential.

Discussion

The gold potential of the Macamic fault, which is indicated by the two known gold showings, remained poorly tested by previous exploration works. The present geochemical sampling survey provides a significant gold anomaly which should be tested by a more detailed investigation (McClenagan and Cocker 2005). The obtained low values of slightly more than 10 ppb Au may reflect ionic transport in favorable geochemical condition.

This possibility may be tested by a more detailed sampling designed to compare the clastic signal, associated with mineral grains in soil samples with hydromorphic signals, associated with ionic diffusion in groundwater, which may have been incorporated in

vegetal tissues and concentrated in the humus layer. In addition, this gold anomaly is located near the Lac Chavigny Ouest showing, which consist of a drill hole intersection. Therefore, the observed gold anomaly in the humus may reflect the western extension of this gold occurrence on the Chavigny property.

Conclusions

- A total of 41 humus samples were collected along a single NNE line that crosses the Macamic fault on the Chavigny claims.
- Forty samples were submitted to ultra trace analysis, including Au, by ICP-MS at Acme Lab. in Vancouver.
- The results show a small sector of interest characterized by anomalous Au-Sb-Bi-Cu-Pb-Hg-B on the southwestern part of the sampling line.

Recommendations

- It is recommended to perform a short follow-up sampling of the various sedimentary units to better understand the sedimentary context and confirm the ionic nature of the observed geochemical signal.

October, 10th 2012

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Appendix I - Sample description

Sample#	Long WGS	Lat 1984	Deposit	Color	Texture	Depth (cm)	Over
CH12-001	-78.7757	48.6322	organic	black	clay size	40-50	organic
CH12-002	-78.7755	48.6324	organic	black	silt size	30-40	organic
CH12-003	-78.7752	48.6326	organic	black	sand size	0-10	clay
CH12-004	-78.7751	48.6329	organic	black	sand size	0-10	clay
CH12-005	-78.7751	48.6329	organic	black	sand size	10-20	clay
CH12-006	-78.7750	48.6331	organic	black	silt size	30-40	organic
CH12-007	-78.7748	48.6333	organic	black	silt size	50-60	organic
CH12-008	-78.7747	48.6335	organic	black	sand size	50-60	organic
CH12-009	-78.7746	48.6337	organic	black	silt size	50-60	organic
CH12-010	-78.7745	48.6338	organic	black	silt size	40-50	organic
CH12-011	-78.7744	48.6340	organic	black	silt size	50-60	organic
CH12-012	-78.7743	48.6343	organic	black	silt size	50-60	organic
CH12-013	-78.7742	48.6345	organic	black	silt size	40-50	organic
CH12-014	-78.7741	48.6347	organic	black	silt size	10-20	clay
CH12-015	-78.7737	48.6348	organic	black	silt size	20-30	bedrock
CH12-016	-78.7736	48.6350	organic	brown	sand size	10-20	clay
CH12-017	-78.7735	48.6352	organic	black	granule size	0-10	clay
CH12-018	-78.7732	48.6355	organic	black	granule size	0-10	clay
CH12-019	-78.7732	48.6356	organic	brown	granule size	0-10	sand
CH12-020	-78.7731	48.6359	organic	black	sand size	0-10	sand
CH12-021	-78.7730	48.6361	organic	brown	sand size	0-10	clay
CH12-022	-78.7728	48.6364	organic	black	sand size	0-10	clay
CH12-023	-78.7725	48.6365	organic	brown	granule size	0-10	diamict
CH12-024	-78.7724	48.6368	organic	black	sand size	0-10	diamict
CH12-025	-78.7723	48.6371	organic	black	sand size	0-10	clay
CH12-026	-78.7722	48.6372	organic	black	silt size	10-20	clay
CH12-027	-78.7720	48.6375	organic	black	silt size	0-10	clay
CH12-028	-78.7719	48.6377	organic	black	clay size	10-20	organic
CH12-029	-78.7717	48.6379	organic	black	silt size	10-20	clay
CH12-030	-78.7717	48.6382	organic	black	silt size	10-20	clay
CH12-031	-78.7715	48.6384	organic	black	clay size	10-20	clay
CH12-032	-78.7715	48.6388	organic	beige	silt size	20-30	clay
CH12-033	-78.7714	48.6390	organic	black	silt size	30-40	organic
CH12-034	-78.7713	48.6391	organic	brown	silt size	40-50	organic
CH12-035	-78.7711	48.6393	organic	black	clay size	10-20	clay
CH12-036	-78.7709	48.6395	organic	black	silt size	0-10	clay
CH12-037	-78.7711	48.6397	organic	black	granule size	0-10	clay
CH12-038	-78.7709	48.6399	organic	black	silt size	0-10	silt
CH12-039	-78.7707	48.6401	organic	black	sand size	0-10	sand
CH12-040	-78.7705	48.6403	organic	black	silt size	0-10	sand
CH12-041	-78.7704	48.6405	organic	black	silt size	0-10	sand

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Client: **Lakeside Minerals Corp.**
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Submitted By: Mario Justino
Receiving Lab: Canada-Vancouver
Received: August 27, 2012
Report Date: September 09, 2012
Page: 1 of 3

CERTIFICATE OF ANALYSIS VAN12004059.1

CLIENT JOB INFORMATION

Project: LSLYCH_SSH_B12-1
Shipment ID:
P.O. Number
Number of Samples: 40

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.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	40	Dry at 60C			VAN
SS80	40	Dry at 60C sieve 100g to -80 mesh			VAN
1F02	39	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Lakeside Minerals Corp.
95 Wellington St. West, Suite 1450
Toronto ON M5J 2N7
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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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Project: LSLYCH_SSH_B12-1
Report Date: September 09, 2012

CERTIFICATE OF ANALYSIS VAN12004059.1

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
CH001	Humus	0.72	14.16	6.23	33.5	45	10.3	3.7	202	0.73	2.6	0.4	2.3	0.3	33.0	0.96	0.10	0.20	15	0.61	0.060
CH002	Humus	1.47	33.70	61.88	20.8	206	11.2	10.8	1182	1.63	11.7	1.0	2.7	0.2	96.1	2.54	0.28	1.09	15	1.64	0.102
CH003	Humus	0.71	34.50	40.29	105.2	244	14.3	6.7	393	1.22	4.6	0.6	2.8	0.9	72.6	2.48	0.44	0.69	19	1.66	0.102
CH004	Humus	1.90	96.70	240.4	98.3	494	14.6	2.4	152	0.59	20.6	0.1	14.4	<0.1	45.7	4.01	1.72	6.43	8	0.62	0.079
CH005	Humus	1.62	56.31	198.5	51.6	237	11.5	1.6	36	0.53	14.1	0.1	12.0	<0.1	10.9	2.14	1.61	5.92	5	0.07	0.076
CH006	Humus	1.26	39.84	83.87	16.5	159	5.7	2.6	29	0.87	10.7	0.3	7.1	0.2	56.2	2.28	0.81	2.42	3	1.02	0.080
CH007	Humus	0.57	15.30	2.77	14.6	125	7.0	2.1	82	0.58	1.6	0.6	1.3	0.2	71.2	0.70	0.06	0.07	11	1.44	0.086
CH008	Humus	0.87	18.41	14.18	19.2	151	6.4	2.1	126	0.56	2.3	0.9	2.7	0.2	71.1	0.84	0.10	0.32	9	1.39	0.088
CH009	Humus	1.04	26.87	65.26	27.5	291	6.1	1.8	41	0.84	9.4	0.3	5.8	0.2	43.6	1.57	0.45	1.52	4	0.87	0.102
CH010	Humus	0.94	19.74	7.77	22.4	155	7.0	2.0	132	0.53	2.3	0.6	1.1	0.2	63.8	0.53	0.13	0.16	11	1.29	0.074
CH011	Humus	0.87	14.45	11.26	13.7	152	13.3	3.0	104	1.16	3.1	1.3	<0.2	0.8	48.1	0.39	0.14	0.18	18	0.94	0.084
CH012	Humus	0.90	30.98	19.26	21.5	140	6.6	1.2	51	0.50	3.7	0.4	2.9	0.4	74.0	1.00	0.22	0.52	10	1.63	0.054
CH013	Humus	1.13	28.44	6.91	23.6	140	14.0	3.3	204	0.97	1.4	0.8	1.4	1.3	92.9	0.50	0.06	0.11	18	2.00	0.060
CH014	Humus	1.14	78.31	108.7	51.7	433	27.5	7.9	835	1.51	10.0	0.7	5.6	1.5	124.3	1.30	0.76	2.75	24	2.53	0.069
CH015	Humus	1.15	40.99	115.7	32.5	343	19.0	4.6	79	0.94	7.0	0.4	8.4	0.5	52.3	3.28	0.71	3.25	12	0.78	0.120
CH016	Humus	1.35	83.01	180.6	146.2	438	21.8	10.6	1066	1.34	16.3	0.2	6.7	0.5	44.7	6.89	0.96	4.12	28	0.93	0.082
CH017	Humus	0.41	22.58	34.99	114.0	164	15.1	6.8	684	1.13	2.8	0.2	2.8	1.1	58.0	1.54	0.25	0.62	23	1.15	0.090
CH018	Humus	0.37	31.52	38.48	208.2	218	15.5	6.8	665	0.94	3.7	0.2	1.9	0.5	62.5	3.50	0.28	0.68	18	1.72	0.114
CH019	Humus	0.86	57.44	100.9	215.0	766	27.5	12.3	1317	2.08	7.6	0.5	6.9	0.6	55.2	6.59	0.55	1.81	35	0.98	0.119
CH020	Humus	0.27	17.28	21.00	168.9	117	3.7	3.3	629	0.13	1.2	<0.1	2.1	<0.1	43.5	3.11	0.18	0.43	4	0.54	0.070
CH021	Humus	0.25	27.76	79.78	10.7	236	5.4	1.6	20	0.17	1.8	<0.1	3.7	0.2	18.3	0.95	0.45	0.69	4	0.22	0.124
CH022	Humus	0.39	26.19	39.47	126.0	146	13.5	5.1	671	0.91	3.4	0.2	2.6	0.3	58.0	3.45	0.33	0.80	16	0.80	0.098
CH023	Humus	0.53	46.20	97.71	133.3	247	6.7	1.9	636	0.26	1.6	<0.1	4.8	<0.1	42.2	2.82	0.47	1.93	5	0.44	0.064
CH024	Humus	0.35	34.02	43.24	103.1	289	6.5	2.0	885	0.13	1.9	<0.1	2.6	<0.1	45.3	2.22	0.41	0.81	2	1.55	0.124
CH025	Humus	0.78	33.05	42.11	29.3	457	13.8	3.0	66	0.97	2.4	0.4	2.7	0.1	26.3	1.21	0.57	0.88	13	0.63	0.140
CH026	Humus	0.86	43.57	41.98	37.7	380	10.6	2.4	70	0.83	6.0	0.4	8.2	<0.1	16.2	0.93	0.63	1.84	9	0.28	0.122
CH028	Humus	1.42	48.74	78.06	29.4	513	10.6	23.1	2056	3.43	30.5	2.8	6.6	0.5	74.2	1.52	0.64	1.70	52	2.76	0.124
CH029	Humus	1.90	46.48	70.41	70.0	372	13.6	9.3	1022	4.69	38.2	0.7	6.6	0.3	44.4	4.05	0.54	2.17	29	1.18	0.127
CH030	Humus	2.37	47.23	72.14	79.1	206	10.6	24.5	5689	4.91	23.8	0.5	7.3	0.4	57.9	3.89	0.77	2.54	22	1.43	0.117
CH031	Humus	1.23	45.73	75.06	50.5	342	9.1	5.6	384	1.32	8.7	0.6	9.4	0.2	50.1	2.92	0.32	2.65	6	1.20	0.125

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Project: LSLYCH_SSH_B12-1
Report Date: September 09, 2012

CERTIFICATE OF ANALYSIS VAN12004059.1

	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
CH001	Humus	9.9	17.6	0.22	39.0	0.021	5	0.52	0.007	0.04	<0.1	1.4	0.04	0.11	131	0.8	0.09	1.7
CH002	Humus	16.1	15.9	0.19	107.0	0.011	4	0.89	0.006	0.05	<0.1	1.2	0.08	0.31	292	1.9	0.28	2.3
CH003	Humus	13.2	23.4	0.39	103.3	0.025	12	1.20	0.018	0.17	0.1	2.1	0.12	0.17	160	1.2	0.15	4.4
CH004	Humus	2.8	11.9	0.14	82.7	0.010	6	0.37	0.007	0.09	0.1	0.8	0.07	0.19	461	3.6	0.19	1.2
CH005	Humus	2.4	7.7	0.06	33.6	0.009	4	0.51	0.023	0.13	0.1	0.6	0.05	0.12	380	3.6	0.19	1.1
CH006	Humus	3.2	6.5	0.13	40.3	0.006	3	0.24	0.013	0.04	<0.1	0.8	0.08	0.22	234	2.1	0.32	0.7
CH007	Humus	11.6	16.2	0.14	65.3	0.008	3	0.70	0.016	0.02	<0.1	1.0	0.03	0.27	194	1.2	<0.02	1.1
CH008	Humus	16.3	15.6	0.14	70.0	0.009	6	0.66	0.022	0.03	<0.1	0.9	0.06	0.27	206	1.3	0.07	1.7
CH009	Humus	4.9	6.9	0.12	38.1	0.006	3	0.25	0.022	0.05	<0.1	0.8	0.15	0.33	198	1.9	0.25	0.7
CH010	Humus	13.4	16.4	0.15	79.3	0.014	4	0.78	0.024	0.04	<0.1	1.0	0.05	0.41	157	0.9	0.22	2.5
CH011	Humus	21.3	39.3	0.22	115.2	0.029	8	2.17	0.021	0.14	<0.1	2.7	0.13	0.24	293	0.9	0.19	9.5
CH012	Humus	7.5	15.4	0.20	70.4	0.018	6	0.78	0.025	0.06	<0.1	1.3	0.06	0.28	158	0.8	0.10	3.1
CH013	Humus	19.8	35.4	0.30	116.8	0.039	5	1.71	0.016	0.11	<0.1	2.8	0.09	0.31	171	0.9	0.04	5.5
CH014	Humus	36.5	38.4	0.56	144.0	0.057	9	1.50	0.024	0.14	0.2	3.0	0.17	0.13	232	2.3	0.39	5.3
CH015	Humus	23.0	24.1	0.27	125.4	0.032	5	1.22	0.033	0.12	0.1	2.3	0.13	0.39	296	2.6	0.05	3.7
CH016	Humus	8.2	26.0	0.43	54.3	0.051	4	0.90	0.009	0.18	0.2	1.5	0.19	0.14	254	2.3	0.38	4.8
CH017	Humus	7.8	23.3	0.48	67.0	0.051	8	0.83	0.011	0.19	0.1	2.0	0.09	0.14	110	0.7	0.07	3.7
CH018	Humus	5.5	18.9	0.45	93.8	0.032	10	0.74	0.006	0.23	<0.1	1.3	0.08	0.19	133	0.7	0.08	3.0
CH019	Humus	10.6	43.0	0.53	132.8	0.057	10	1.82	0.011	0.31	0.1	2.6	0.21	0.16	232	1.5	0.17	8.6
CH020	Humus	1.7	3.7	0.09	55.1	0.018	4	0.13	0.004	0.06	<0.1	0.4	0.03	0.12	106	0.6	<0.02	1.1
CH021	Humus	6.6	3.9	0.02	41.8	0.003	2	0.78	0.006	0.05	<0.1	0.9	0.05	0.30	175	0.9	0.03	0.5
CH022	Humus	4.4	22.8	0.31	81.5	0.038	5	0.71	0.010	0.08	<0.1	1.1	0.08	0.16	94	0.7	0.04	3.7
CH023	Humus	2.9	5.4	0.08	219.1	0.007	4	0.15	0.005	0.07	<0.1	0.3	0.07	0.09	113	1.0	0.06	1.0
CH024	Humus	3.2	4.6	0.08	58.3	0.004	9	0.16	0.004	0.09	<0.1	0.3	0.06	0.24	165	0.9	0.05	0.5
CH025	Humus	15.8	20.8	0.22	71.1	0.019	4	1.61	0.008	0.08	<0.1	1.0	0.07	0.27	230	1.4	0.09	3.7
CH026	Humus	11.0	12.5	0.10	52.2	0.011	3	1.04	0.007	0.07	0.1	0.7	0.05	0.28	196	2.1	0.12	2.4
CH028	Humus	30.4	15.7	0.29	101.1	0.009	8	1.05	0.012	0.06	0.1	1.5	0.18	0.27	301	3.8	2.07	1.9
CH029	Humus	13.7	24.5	0.20	97.0	0.017	6	0.98	0.012	0.07	<0.1	1.3	0.16	0.29	313	3.1	1.28	3.5
CH030	Humus	14.9	20.0	0.17	126.8	0.015	5	0.80	0.010	0.06	<0.1	1.5	0.20	0.30	289	3.3	1.18	3.1
CH031	Humus	8.7	13.0	0.13	61.7	0.010	5	0.47	0.009	0.07	0.1	1.1	0.19	0.31	362	3.5	0.39	1.9

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CERTIFICATE OF ANALYSIS VAN12004059.1

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
CH032	Humus	0.26	5.57	3.57	8.3	75	2.9	0.8	31	0.42	1.2	0.4	0.3	0.8	24.4	0.19	0.05	0.02	6	0.42	0.040
CH033	Humus	0.72	72.94	38.68	29.8	201	3.7	0.8	20	0.46	6.3	0.2	4.7	0.3	19.9	2.43	0.75	1.47	5	0.30	0.060
CH034	Humus	0.95	96.23	90.96	40.7	276	5.0	1.1	37	0.35	10.5	0.4	11.0	0.5	31.2	3.81	0.89	3.71	6	0.56	0.050
CH035	Humus	3.36	37.80	40.18	118.9	298	25.3	21.9	481	3.84	15.5	1.0	3.5	1.7	26.1	2.27	0.53	0.94	74	0.41	0.130
CH036	Humus	0.95	75.02	108.4	47.0	798	11.0	2.7	41	1.04	7.7	0.5	4.5	<0.1	13.7	3.45	0.57	2.51	11	0.22	0.089
CH037	Humus	0.76	45.96	68.50	49.6	403	20.0	7.4	289	1.09	3.7	0.3	4.4	0.3	34.1	1.83	0.49	1.14	16	0.60	0.123
CH038	Humus	1.20	105.7	153.9	84.7	641	13.7	1.9	189	0.20	3.4	<0.1	7.9	<0.1	17.3	3.13	0.83	3.16	4	0.54	0.096
CH039	Humus	0.97	81.04	159.9	92.8	382	13.0	3.7	138	0.25	3.2	<0.1	8.5	<0.1	18.9	3.82	0.60	2.67	5	0.52	0.086
CH040	Humus	0.87	49.71	95.04	57.4	425	6.2	1.2	51	0.18	3.3	<0.1	5.8	<0.1	13.6	1.50	0.54	2.27	3	0.37	0.054
CH041	Humus	0.60	43.15	48.33	22.3	563	7.1	1.2	24	0.33	3.8	0.2	4.4	<0.1	10.5	1.52	0.32	1.21	4	0.20	0.058

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CERTIFICATE OF ANALYSIS VAN12004059.1

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
CH032	Humus	5.7	12.4	0.05	30.8	0.011	3	0.41	0.011	0.04	<0.1	1.5	0.05	0.12	154	0.5	0.06	1.8
CH033	Humus	3.6	5.6	0.03	48.1	0.010	4	0.37	0.008	0.02	<0.1	1.1	0.09	0.43	267	2.2	0.25	1.2
CH034	Humus	3.7	6.5	0.07	48.7	0.010	3	0.33	0.007	0.02	<0.1	1.2	0.05	0.48	311	3.5	0.35	1.5
CH035	Humus	16.9	55.8	0.50	168.3	0.057	8	2.75	0.021	0.23	<0.1	4.1	0.32	0.23	210	2.0	1.49	9.6
CH036	Humus	10.9	14.6	0.10	60.9	0.010	4	0.96	0.014	0.10	<0.1	0.6	0.08	0.16	277	2.5	0.19	3.9
CH037	Humus	20.0	24.2	0.32	101.1	0.035	5	1.06	0.009	0.16	0.1	2.1	0.11	0.22	141	1.2	0.05	4.1
CH038	Humus	2.3	4.4	0.05	69.9	0.005	3	0.15	0.003	0.05	0.1	0.6	0.04	0.24	268	2.7	0.11	0.7
CH039	Humus	4.1	5.5	0.06	69.0	0.012	5	0.25	0.004	0.06	<0.1	0.5	0.07	0.17	213	2.1	0.13	1.3
CH040	Humus	2.2	2.9	0.03	37.4	0.004	2	0.19	0.008	0.03	<0.1	0.5	0.03	0.17	185	2.3	0.14	0.6
CH041	Humus	6.2	5.7	0.03	44.8	0.006	2	0.48	0.011	0.03	<0.1	0.4	0.04	0.10	169	1.4	0.11	1.3

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QUALITY CONTROL REPORT VAN12004059.1

	Method	1F15	1F15	1F15	1F15	1F16	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F16
	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
Pulp Duplicates																					
CH019	Humus	0.86	57.44	100.9	215.0	766	27.5	12.3	1317	2.08	7.6	0.5	6.9	0.6	55.2	6.59	0.55	1.81	35	0.98	0.119
REP CH019	QC	0.85	55.72	99.32	213.8	774	26.2	11.8	1315	2.09	7.3	0.5	7.3	0.5	55.5	6.69	0.58	1.75	35	0.97	0.120
CH037	Humus	0.76	45.96	68.50	49.6	403	20.0	7.4	289	1.09	3.7	0.3	4.4	0.3	34.1	1.83	0.49	1.14	16	0.60	0.123
REP CH037	QC	0.72	48.50	65.67	51.3	458	20.7	7.6	293	1.11	3.4	0.3	1.0	0.3	34.0	1.88	0.49	1.16	17	0.59	0.110
Reference Materials																					
STD DS9	Standard	14.82	109.2	134.5	318.5	2019	43.6	8.1	615	2.37	24.3	2.9	129.1	6.9	76.9	2.28	5.79	6.64	41	0.76	0.084
STD DS9	Standard	12.85	108.3	125.6	314.1	2008	38.6	7.7	577	2.37	29.2	2.8	125.9	6.8	77.3	2.47	6.31	7.10	40	0.73	0.091
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
BLK	Blank	<0.01	<0.01	0.01	<0.1	5	<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

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QUALITY CONTROL REPORT VAN12004059.1

	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
Pulp Duplicates																		
CH019	Humus	10.6	43.0	0.53	132.8	0.057	10	1.82	0.011	0.31	0.1	2.6	0.21	0.16	232	1.5	0.17	8.6
REP CH019	QC	11.4	41.5	0.54	135.1	0.058	11	1.84	0.011	0.31	0.2	2.6	0.20	0.15	218	1.4	0.12	8.5
CH037	Humus	20.0	24.2	0.32	101.1	0.035	5	1.06	0.009	0.16	0.1	2.1	0.11	0.22	141	1.2	0.05	4.1
REP CH037	QC	19.0	24.3	0.31	95.3	0.035	8	1.07	0.009	0.16	0.1	2.1	0.12	0.21	171	1.6	0.05	4.3
Reference Materials																		
STD DS9	Standard	15.3	128.1	0.63	312.0	0.120	3	1.02	0.101	0.42	3.3	3.0	5.72	0.16	210	5.2	5.45	4.7
STD DS9	Standard	13.5	121.5	0.62	319.6	0.113	3	0.97	0.091	0.40	3.3	2.6	5.83	0.17	248	5.5	5.31	4.7
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
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