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Report on Sampling 2333382 Ontario Inc. 2017

Paul W. Adams

The Warden Dunite property (Formerly Hedman Resources) is located in the south central portion of Warden Township and the north central portion of Munro Township, Kirkland Lake Mining Division, and is owned by 2333382 Ontario Inc. Three main deposit types are considered by the Company to have exploration potential on the property: volcanogenic massive sulphides (VMS) - style copper-zinc such as found at the nearby Potter and Potterdoal deposits; nickel-chrome hosted by ultramafic rocks; and high magnesium +/- deposits such as mined for industrial mineral uses such as smelter flux and for asbestos fibre. In addition there are significant north south trending Nipissing diabase dykes (traprock) which have potential as industrial minerals. Historically the property has been mined for asbestos like minerals as well as industrial fillers. Over the years there have been several drill campaigns (most recent by this firm) as well as numerous geophysical studies (all reported in MNDM assessment files).

Recently, during some renovation work at the former Hedman Plant (now owned by Northfil), a report by Pain 1957 (reproduced below) was discovered in some old files. As the drill results corresponding to this work are available in the assessment files the objective of this study was to revisit these sampling locations and verify the data. In order to maintain some continuity, the sample labels are the same as the originals.

The data consist of rock samples sent to Actlab for full ICP and gold analysis. Below is a summary table of the data as well a map is submitted with this report with all the sample locations. GPS coordinates and rock descriptions are included in the table below. The samples are mapped according to an assigned map number which is in the second last column of the table below.

For example the first sample b6 is found in file "Adams, P Cert A1605010 (Actlab assigned file number) and is mapped as sample 1. If there are significant levels are also indicated under results. The results generally confirm the work of Payne see below.

HEDMAN MINES LIMITED
Report by S. A. Pain, M.C.I.M., P. Eng.
25th October 1957

The President and Directors,
Hedman Mines Limited

Dear Sirs:

On July 14th 1956 I visited your property in company of Mr. Mangan and Mr. Dyer, and inspected the various showings, and as a result of this and a study of all data available I would report as follows:

PROPERTY

The property consists of 26 mining claims in one group in the townships of Munro and Warden, Northern Ontario, numbered: L-53314-53315-53316-53317-53318-53319-53320-53321-53322 in Munro, and 59857-59858-59814-59813-59815-59812-59424-59423-56558-55008-58523-55009-58524-55010-58525-55011-56559 in the township of Warden.

It is understood that the claims are all in good standing, but title was not investigated.

ACCESS ETC.

The property is reached by means of a good motor road to a point 14 miles east of the railroad station of Matheson. From this point a road has been bulldozed north for 7 miles across sandplains to your campsite.

Timber is scarce in the immediate vicinity, but can be purchased in any amount at points not far distant.

Electric power would be available from the Hydro-Electric Power Commission of Ontario, whose transmission line now serves the Johns-Manville Asbestos Mine, only 4 miles south-west from your claims.

Water would be available from neighbouring lakes and water courses in any necessary amount.

AREAL GEOLOGY AND DEVELOPMENT

Outcrops are plentiful on this property, and most of the timber growth has been removed by fires in the past, and it is easily seen that this particular area exhibits a specialized phase of Northern Ontario geology.

The usual Keewatin lavas are represented by andesitic flows, and contained within these there are some narrower flows of rhyolite. Into these acidic lavas there have been intruded sill-like bodies, or stocks, of a basic and ultra-basic composition, and the entire assemblage has been folded and tilted into a number of regional synclines, having a strike north of west. Crossing these formations on a northerly strike there are dikes of the later diabase, of Matachewan age, of which there are five on this property. Of probably similar age are the north-striking faults that can be observed in many places. Cross fissuring of this type is beneficial, in that it tends to fracture the ground for the easier penetration of the mineral bearing agencies.

The noteworthy feature is the basic and ultra-basic complex. This is part of a succession of such outcrops which have been traced from the Quebec border for more than 40 miles to the west and north, and they probably represent the core of an ancient mountain range. On your property one can observe the differentiation of this magma through a diabasic and gabbroic phase to peridotite and dunite. On the accompanying map I have not shown any division between these phases, since it is not necessary for the present purpose.

In this immediate area the ultra-basic dunite commonly contains asbestos, and 4 miles south-west from your property is the mine of the Canadian Johns-Manville Company, which has been treating about 2,000 tons of ore per day since 1950. That Company holds other properties in this district, and many other concerns have semi-proved reserves of asbestos. On your own claims some 2,000 feet of diamond drilling, in 1951-53, established the presence of considerable amounts of asbestos, and further work would undoubtedly enlarge these resources and give a better idea of quality and fibre length. I noted some half inch fibre in place, and was well impressed with the showings.

In the course of this exploration it was found that there were occurrences of sulphides, which returned values in nickel, copper and cobalt, and the question now arises concerning the significance of such finds, and the best method of developing them.

PROPERTY DEVELOPMENT

The geology on the plan accompanying this report is based upon Ontario Department of Mines Map 1951-5, and other information is based upon records supplied by Mr. Mangan, and my own observations. Logs of former drilling give excellent information concerning formation and asbestos content, while sulphide mineralization was noted but not sampled or assayed, since emphasis at the time was on exploration for asbestos.

Two distinct zones are to be noted. Along the northern boundary of the brown weathering peridotite a sample taken from a pit near drill hole B-9 assayed Nickel .17%; Copper .1%; Cobalt .015%, and according to Mr. Mangan's records a sample from the original discovery at this point assayed Nickel 1.64%; Copper 1.31%; Cobalt .14%. The logs of three other holes in that area mention disseminated mineralization by pyrrhotite. Of the 17 holes drilled in this zone, B-13 was the most promising in appearance, and the log of this hole notes assays of Nickel .37% and Copper 1.77% for

a length of 1 foot. My sample from a pit near the east line of claim 59423 assayed Nickel .53%; Copper .28%; Cobalt .03% whereas Mr. Mangan's records show an assay, from the same location, of Nickel 1.06%; Copper .52%; and Cobalt .06%.

These values cover a length of 2,000 feet of the northern contact zone, but it would appear that the contact has not been exactly located. In general the mineralization consists of pyrrhotite, with white iron sulphide, and scarce chalcopyrite.

Nickel, copper, cobalt, and chrome, may be regarded as accessory minerals in the ultra-basic rocks, and the most likely place to find an enrichment of commercial grade and size is at the borders of such masses. There is always the possibility that a segregation may be found along a contact, or at some point of folding. An example of this may be seen at the old Alexo Nickel Mine, 25 miles to the west, now owned by Noranda Mines Ltd., where the geological setting is very similar.

I recommend that a diamond drill hole be set out near the collar of B-9 and drilled to the north-east on a dip of 45° for 550 feet, to give another intersection of the mineralization found in the pit, and to explore the peridotite-lava contact where there would appear to be a bend in the lava band. A similar hole should be drilled from near the collar of B-14, headed north. In the light of the knowledge gained from these holes it should be possible to lay out a programme of drilling to thoroughly explore this promising contact zone, extending for 9,000 feet across the property.

A different type of mineralization is to be seen associated with the bands of rhyolite in the south-western part of the property. These bands of rhyolite were infolded during the intrusion of the basic complex, and there is an appreciable amount of pyrite and chalcopyrite present.

Specimens from a pit near hole C-4 carried Copper 1.54%; Cobalt .27%; and specimens from a pit near hole C-5 assayed Copper 4.95%; Cobalt .025%. At this latter place the rock was extensively fractured, and a sample of diabasic rock gave an assay of Copper 1.31% from a very regular dissemination of fine grains of chalcopyrite. The cobalt content is interesting, and might prove of value. There is a strike length of 5,000 feet of this particular zone on your property, on which the chances of locating a body of copper ore are distinctly encouraging. I would recommend that a 500 foot hole be drilled under C-5 at a dip of 60° , and that another be set out at a point 150 feet north of C-4 and drilled south at 45° for 500 feet. And a hole should be set out 150 feet north of C-2, and drilled south at 45° for 500 feet. All holes now should have the core carefully examined, split, and assayed for copper, with occasional composite samples being assayed for gold and cobalt. In the light of the knowledge so gained, the work of further exploring the zone should be laid out to advantage.

This favourable type of rhyolite formation is repeated in two zones on claim 53321, where some old pits show sulphides. The logs of three old holes in the south-western part of this claim note the presence of pyrrhotite and chalcopyrite in the most southerly of these rhyolites, which strikes directly toward the shaft of the new Potter Doal Mine, where at the time of my visit, exploration was being carried out by the Hoyle Mining Company. The other band can be traced on your ground to a point only 1,000 feet from the Potter Doal shaft. From that shaft they shipped ore running 15% copper in 1927, and Hoyle's work was directed to further exploration of that ore zone. It is reasonable to suppose that similar enrichments of copper ore should be found in the lengths of these rhyolite zones contained within your property.

A similar rhyolite-peridotite complex is yielding very interesting results at the Centre Hill Mine, about one mile south from your property. About the time of my visit one recent hole here was reported to have intersected 21.5 feet of 2.2% copper, and it would seem that a body of commercial ore is being outlined within a band of rhyolite.

I have no hesitation in recommending that the potentialities of this property should be fully explored by diamond drilling.

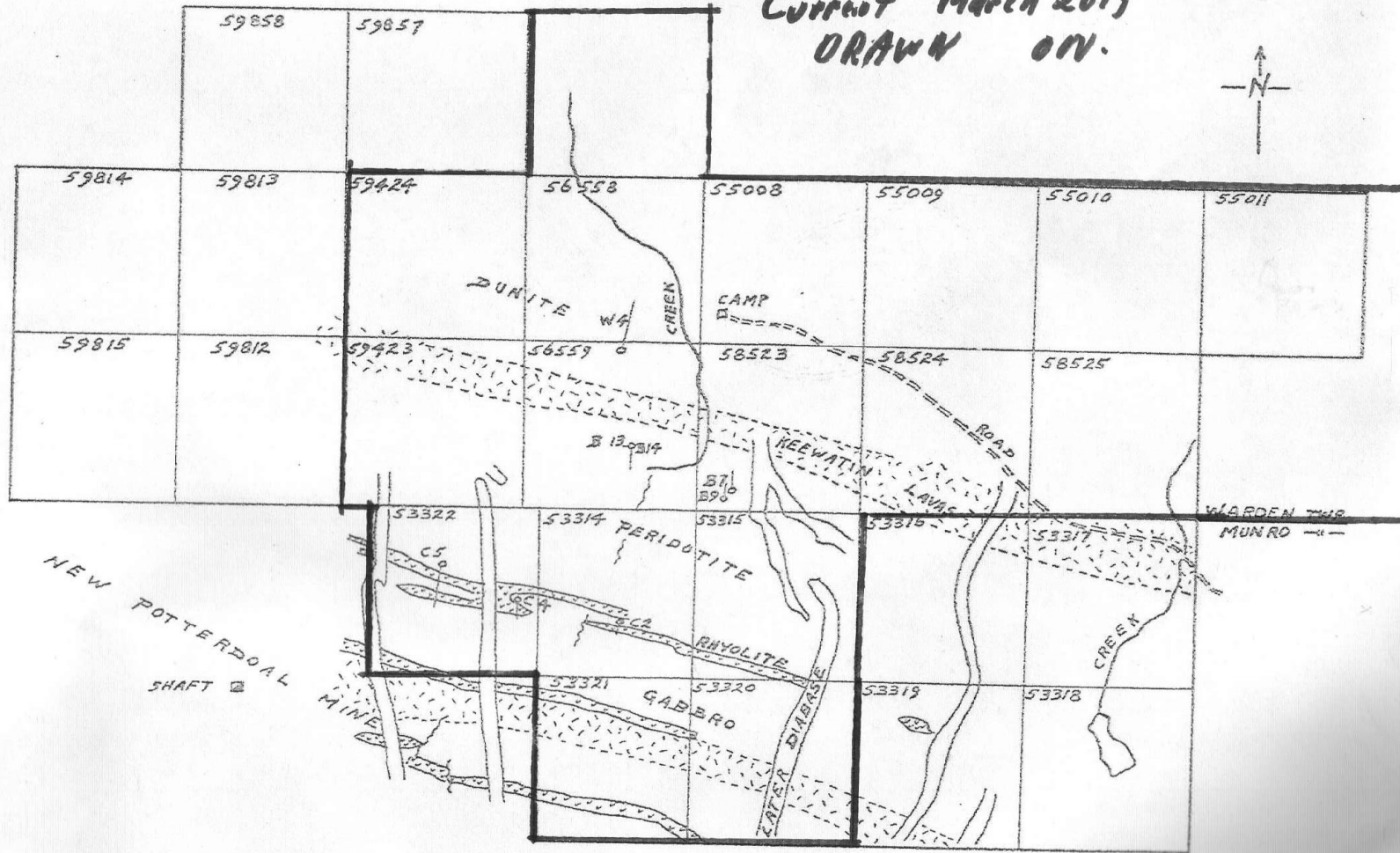
Yours very truly,
"S. A. PAIN"

Sault Ste. Marie, Ont.
25th October 1957

Accompanied by
Plan of Generalized Geology, 1" - 1000'

PAIN MAP

Current March 2013
DRAWN ON.



Based on Ont. Dept. Mines Map 1951-5

J. R. Pain 25-Oct-57

1 MILE TO
CENTRE HILL MINE

HEDMAN MINES LIMITED

GENERALIZED GEOLOGY

SCALE: 1 INCH = 1000 FEET

9-15-2016	Travel to Matheson, hotel 85.00 Food 35.00	750	120	Vegetative Sampling of Clearing				
9-16-2016	Lease 56559	106	120	8 13-1 Sphagnum moss	A16-1102	558931	5386245	16
9-17-2016	Travel to Toronto	750	120	13-2 Sphagnum moss	A16-1102	558916	5386249	17
				13-3 Sphagnum moss	A16-1102	558890	5386261	18
				13-4 Sphagnum moss	A16-1102	558860	5386278	19
				13-5 Sphagnum moss	A16-1102	558839	5386292	20

Total Km	Total Room/B Hours
7690	2160 132.5



Date Submitted: 02-Jun-16
Invoice No.: A16-05010
Invoice Date: 08-Jun-16
Your Reference: Aug. 14/15

Paul Adams
20 Colinayre
Toronto ON M1T 3A9
Canada

ATTN: Paul Adams

CERTIFICATE OF ANALYSIS

15 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Timmins Au - Fire Assay AA

Code 1E3-Timmins Aqua Regia ICP(AQUAGEO)

REPORT **A16-05010**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3.

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé", written over a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
1752 Riverside Drive, Timmins, Ontario, Canada, P4R 1N1
TELEPHONE +705 264-0123 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Timmins@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A16-05010

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
P-1	< 5	0.3	< 0.5	19	1090	< 1	1200	< 2	58	0.27	< 2	< 10	< 10	< 0.5	4	0.03	136	491	25.3	< 10	< 1	< 0.01	< 10
B13-1	< 5	< 0.2	< 0.5	19	612	< 1	411	5	39	1.47	< 2	< 10	16	< 0.5	< 2	1.34	51	670	4.73	< 10	< 1	0.05	< 10
B13-2	< 5	< 0.2	< 0.5	< 1	317	< 1	50	< 2	46	1.61	< 2	< 10	54	< 0.5	< 2	1.15	15	103	2.89	< 10	< 1	0.17	27
B6-1	< 5	< 0.2	< 0.5	11	618	< 1	390	< 2	41	1.54	< 2	< 10	17	< 0.5	< 2	1.47	48	675	4.73	< 10	< 1	0.05	< 10
B7-1	< 5	< 0.2	< 0.5	244	1040	< 1	867	< 2	48	1.80	< 2	25	34	< 0.5	< 2	0.91	101	772	8.82	< 10	< 1	0.07	< 10
B7-2	< 5	< 0.2	< 0.5	533	1190	< 1	1560	< 2	76	1.00	< 2	< 10	23	< 0.5	< 2	0.34	146	490	9.62	< 10	< 1	0.06	< 10
BP-1	< 5	< 0.2	< 0.5	47	932	< 1	1070	< 2	54	0.85	< 2	25	19	< 0.5	< 2	0.41	114	336	8.66	< 10	< 1	0.06	< 10
DI	< 5	0.2	< 0.5	70	684	< 1	38	< 2	78	3.09	3	44	60	0.6	< 2	2.81	24	39	4.98	10	< 1	0.08	29
G1	< 5	< 0.2	< 0.5	78	503	< 1	50	< 2	132	3.67	< 2	13	42	< 0.5	< 2	2.74	22	77	4.02	< 10	< 1	0.12	< 10
PIT 2	< 5	< 0.2	< 0.5	39	225	< 1	18	< 2	68	1.77	< 2	< 10	60	< 0.5	< 2	1.05	9	35	2.33	< 10	< 1	0.22	< 10
PIT 2A	< 5	< 0.2	< 0.5	2	49	2	1	5	9	0.39	24	< 10	75	< 0.5	< 2	0.11	3	12	1.01	< 10	< 1	0.19	< 10
PIT 3-1	< 5	0.2	< 0.5	293	704	< 1	47	< 2	95	5.45	3	< 10	18	< 0.5	< 2	0.54	73	43	13.9	20	< 1	0.04	< 10
PIT 3-2	8	0.3	< 0.5	503	643	< 1	46	6	104	4.72	< 2	< 10	20	< 0.5	< 2	0.44	109	34	13.0	20	< 1	0.05	< 10
PIT 3-3	18	0.8	< 0.5	873	309	2	11	24	77	2.21	5	< 10	31	< 0.5	< 2	0.03	145	6	9.64	10	< 1	0.12	21
PIT 3-4	< 5	0.3	< 0.5	107	2260	< 1	37	< 2	212	5.36	< 2	< 10	49	0.7	< 2	0.67	42	33	11.6	20	< 1	0.13	< 10

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
P-I	10.5	0.016	0.002	0.01	11	3	2	0.03	< 1	< 2	< 10	16	< 10	1	9
B13-1	3.72	0.255	0.021	0.02	7	6	7	0.14	< 1	< 2	< 10	68	< 10	4	10
B13-2	1.76	0.121	0.120	< 0.01	2	4	59	0.24	< 1	< 2	< 10	79	< 10	9	3
B6-1	3.84	0.295	0.022	0.02	5	6	8	0.15	< 1	< 2	< 10	76	< 10	5	11
B7-1	9.48	0.105	0.017	0.29	9	4	6	0.11	< 1	< 2	< 10	58	< 10	4	10
B7-2	13.0	0.044	0.009	0.56	6	3	8	0.04	< 1	< 2	< 10	25	< 10	2	5
BP-1	13.7	0.054	0.009	0.03	5	3	7	0.04	3	< 2	< 10	23	< 10	1	4
DI	1.77	0.082	0.125	0.02	< 2	6	305	0.43	4	< 2	< 10	161	< 10	11	14
G1	2.10	0.236	0.016	0.04	< 2	6	42	0.15	< 1	< 2	< 10	130	< 10	3	4
PIT 2	0.83	0.101	0.017	0.35	< 2	3	17	0.09	2	< 2	< 10	56	< 10	3	6
PIT 2A	0.03	0.054	0.014	0.25	< 2	1	5	0.09	< 1	< 2	< 10	11	< 10	4	25
PIT 3-1	3.51	0.070	0.038	0.40	3	37	6	0.29	2	< 2	< 10	371	< 10	23	8
PIT 3-2	3.02	0.064	0.031	1.51	3	29	5	0.25	< 1	< 2	< 10	289	< 10	27	24
PIT 3-3	1.21	0.022	0.007	5.03	5	3	2	0.02	< 1	< 2	< 10	20	< 10	32	103
PIT 3-4	3.50	0.187	0.041	2.01	< 2	35	62	0.24	3	< 2	< 10	329	< 10	21	7

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		28.8	2.9	1040	770	13	22	659	675	0.35	382	< 10	338	0.8	1510	0.78	6	6	23.1	< 10	4	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-4 Meas		3.6	< 0.5	6480	139	315	35	49	73	3.06	109	< 10	105	1.5	6	0.95	14	58	3.30	10	< 1	1.79	52
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
GXR-6 Meas		0.3	< 0.5	62	988	2	17	97	121	7.41	249	< 10	1090	0.9	< 2	0.15	13	79	5.53	20	< 1	1.10	10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
OxD108 Meas	414																						
OxD108 Cert	414																						
OxJ120 Meas	2370																						
OxJ120 Cert	2365.000																						
P-I Orig		0.3	< 0.5	18	1100	< 1	1200	< 2	57	0.27	< 2	< 10	< 10	< 0.5	4	0.03	136	494	25.2	< 10	< 1	< 0.01	< 10
P-I Dup		0.2	< 0.5	19	1090	< 1	1190	< 2	58	0.27	< 2	< 10	< 10	< 0.5	3	0.03	137	489	25.3	< 10	< 1	< 0.01	< 10
G1 Orig		< 0.2	< 0.5	81	513	< 1	51	4	136	3.70	< 2	13	42	< 0.5	< 2	2.78	22	79	4.11	< 10	< 1	0.13	< 10
G1 Dup		< 0.2	< 0.5	76	493	< 1	48	< 2	129	3.64	< 2	13	41	< 0.5	< 2	2.70	21	75	3.94	< 10	< 1	0.12	< 10
PIT 2 Orig	< 5																						
PIT 2 Split PREP DUP	< 5																						
PIT 2 Orig	< 5																						
PIT 2 Dup	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	12	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	0.13	0.055	0.036	0.19	85	1	152	< 0.01	13	< 2	26	82	139	24	14
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	13.0	0.390	34.9	80.0	164	32.0	38.0
GXR-4 Meas	1.71	0.159	0.120	1.75	5	7	75	0.14	< 1	< 2	< 10	90	16	12	11
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	0.970	3.20	6.20	87.0	30.8	14.0	186
GXR-6 Meas	0.39	0.087	0.031	0.01	4	20	30		6	< 2	< 10	184	< 10	6	15
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110
OxD108 Meas															
OxD108 Cert															
OxJ120 Meas															
OxJ120 Cert															
P-I Orig	10.5	0.016	0.002	0.01	11	3	2	0.03	2	< 2	< 10	15	< 10	1	9
P-I Dup	10.5	0.016	0.002	0.01	10	3	2	0.03	< 1	< 2	< 10	16	< 10	1	8
G1 Orig	2.15	0.247	0.017	0.04	< 2	6	42	0.16	< 1	< 2	< 10	131	< 10	3	4
G1 Dup	2.06	0.225	0.016	0.04	< 2	5	41	0.15	2	< 2	< 10	128	< 10	3	4
PIT 2 Orig															
PIT 2 Split PREP DUP															
PIT 2 Orig															
PIT 2 Dup															
Method Blank															
Method Blank															
Method Blank	< 0.01	0.014	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1



Date Submitted: 08-Jul-16
Invoice No.: A16-06448
Invoice Date: 15-Jul-16
Your Reference: July 08/16

Paul Adams
20 Colinayre
Toronto ON M1T 3A9
Canada

ATTN: Paul Adams

CERTIFICATE OF ANALYSIS

6 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Timmins Au - Fire Assay AA

Code 1E2-Timmins Aqua Regia ICP(AQUAGEO)

REPORT **A16-06448**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3.

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Emmanuel Esemé". The signature is stylized with loops and is positioned above a horizontal line.

Emmanuel Esemé, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
1752 Riverside Drive, Timmins, Ontario, Canada, P4R 1N1
TELEPHONE +705 264-0123 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Timmins@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A16-06448

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	La	K	Mg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	%
Lower Limit	5	0.2	0.2	1	1	2	1	2	1	0.01	3	5	1	1	2	0.01	1	2	0.01	1	1	0.01	0.01
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
B13-PIT	6	< 0.2	< 0.2	629	1060	< 2	728	< 2	47	0.96	< 3	26	17	< 1	< 2	0.65	91	1110	10.9	3	< 1	0.03	11.6
#2 POST PIT	6	< 0.2	< 0.2	46	1090	< 2	995	3	42	0.83	< 3	58	11	< 1	2	0.27	108	660	8.33	1	< 1	0.01	15.3
B-PIT	8	< 0.2	< 0.2	21	908	< 2	1180	< 2	35	0.82	< 3	49	10	< 1	< 2	0.27	97	418	7.45	< 1	< 1	0.03	14.9
B15-V	6	< 0.2	< 0.2	2	1070	< 2	92	< 2	51	1.21	< 3	59	12	< 1	< 2	0.03	14	45	5.73	3	< 1	< 0.01	16.8
B7	7	< 0.2	0.2	683	1100	< 2	932	2	114	1.14	< 3	28	21	< 1	< 2	0.59	114	832	8.62	2	< 1	0.08	12.7
B13-B-PIT	11	< 0.2	< 0.2	1200	1910	< 2	1170	4	77	0.94	< 3	7	33	< 1	< 2	0.58	121	1480	14.4	4	< 1	0.07	11.0

Analyte Symbol	Na	P	Sb	Sc	Se	Sn	Sr	Te	Tl	Ti	U	V	W	Y	Zr	S
Unit Symbol	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
Lower Limit	0.001	0.001	5	0.1	5	5	1	1	2	0.01	10	1	1	1	1	0.001
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
B13-PIT	0.093	0.007	8	4.1	21	< 5	7	5	< 2	0.09	< 10	49	2	2	6	0.278
#2 POST PIT	0.028	0.007	6	5.7	10	< 5	5	4	< 2	0.06	< 10	28	3	3	5	0.032
B-PIT	0.027	0.005	< 5	5.0	< 5	< 5	6	3	< 2	0.03	< 10	16	< 1	2	3	0.035
B15-V	0.014	< 0.001	< 5	0.5	< 5	< 5	< 1	6	< 2	< 0.01	< 10	7	< 1	< 1	2	0.004
B7	0.076	0.006	5	4.9	15	< 5	8	< 1	< 2	0.08	< 10	42	1	2	6	0.427
B13-B-PIT	0.078	0.008	10	3.4	21	< 5	15	4	< 2	0.13	< 10	76	6	2	6	1.32

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	La	K	Mg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	%
Lower Limit	5	0.2	0.2	1	1	2	1	2	1	0.01	3	5	1	1	2	0.01	1	2	0.01	1	1	0.01	0.01
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		29.3	2.2	1070	757	13	31	537	593	0.36	335	10	456	< 1	1160	0.83	6	5	22.5	4	5	0.03	0.13
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	7.50	0.050	0.217
GXR-4 Meas		3.2	0.3	5890	126	266	35	35	66	2.73	90	< 5	66	1	20	0.90	13	50	2.99	9	46	1.54	1.53
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	64.5	4.01	1.66
GXR-6 Meas		0.4	< 0.2	70	997	< 2	23	77	112	7.41	225	< 5	1250	< 1	< 2	0.18	13	78	5.68	15	11	1.09	0.40
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	13.9	1.87	0.609
SF85 Meas	810																						
SF85 Cert	848																						
OxD128 Meas	412																						
OxD128 Cert	424.000																						
B-PIT Orig		< 0.2	< 0.2	22	916	< 2	1190	< 2	35	0.83	< 3	50	10	< 1	< 2	0.27	98	423	7.52	2	< 1	0.03	15.1
B-PIT Dup		< 0.2	< 0.2	21	900	< 2	1160	< 2	35	0.81	< 3	48	10	< 1	3	0.27	96	413	7.37	< 1	< 1	0.03	14.7
Method Blank	5																						
Method Blank	5																						
Method Blank		< 0.2	< 0.2	6	< 1	< 2	< 1	< 2	8	< 0.01	< 3	< 5	7	< 1	< 2	< 0.01	< 1	< 2	< 0.01	< 1	< 1	< 0.01	< 0.01

Analyte Symbol	Na	P	Sb	Sc	Se	Sn	Sr	Te	Tl	Ti	U	V	W	Y	Zr	S
Unit Symbol	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
Lower Limit	0.001	0.001	5	0.1	5	5	1	1	2	0.01	10	1	1	1	1	0.001
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	0.076	0.035	78	1.0	11	24	164	13	< 2	< 0.01	32	81	120	24	13	0.187
GXR-1 Cert	0.0520	0.0650	122	1.58	16.6	54.0	275	13.0	0.390	0.036	34.9	80.0	164	32.0	38.0	0.257
GXR-4 Meas	0.133	0.103	< 5	6.0	7	5	65	5	< 2	0.13	< 10	76	12	11	9	1.54
GXR-4 Cert	0.564	0.120	4.80	7.70	5.60	5.60	221	0.970	3.20	0.29	6.20	87.0	30.8	14.0	186	1.77
GXR-6 Meas	0.146	0.029	6	21.9	< 5	< 5	32	4	< 2		< 10	178	1	7	15	0.013
GXR-6 Cert	0.104	0.0350	3.60	27.6	0.940	1.70	35.0	0.0180	2.20		1.54	186	1.90	14.0	110	0.0160
SF85 Meas																
SF85 Cert																
OxD128 Meas																
OxD128 Cert																
B-PIT Orig	0.027	0.005	< 5	5.0	< 5	< 5	6	2	< 2	0.03	< 10	15	< 1	2	3	0.035
B-PIT Dup	0.027	0.005	< 5	4.9	< 5	< 5	6	3	< 2	0.03	< 10	16	< 1	2	3	0.035
Method Blank																
Method Blank																
Method Blank	0.013	< 0.001	< 5	< 0.1	< 5	< 5	< 1	< 1	< 2	< 0.01	< 10	< 1	< 1	< 1	< 1	< 0.001



Date Submitted: 20-Jul-16
Invoice No.: A16-07028
Invoice Date: 29-Jul-16
Your Reference: July 20/16

Paul Adams
20 Colinayre
Toronto ON M1T 3A9
Canada

ATTN: Paul Adams

CERTIFICATE OF ANALYSIS

4 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Timmins Au - Fire Assay AA

Code 1E2-Timmins Aqua Regia ICP(AQUAGEO)

REPORT **A16-07028**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3.

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written over a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
1752 Riverside Drive, Timmins, Ontario, Canada, P4R 1N1
TELEPHONE +705 264-0123 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Timmins@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A16-07028

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	La	K	Mg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	%
Lower Limit	5	0.2	0.2	1	1	2	1	2	1	0.01	3	5	1	1	2	0.01	1	2	0.01	1	1	0.01	0.01
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
PIT C2	28	1.6	< 0.2	3970	203	4	16	22	45	1.85	26	< 5	11	< 1	6	0.03	455	10	17.6	13	12	< 0.01	0.75
SWEST1	6	0.4	< 0.2	1750	969	< 2	791	3	81	0.69	< 3	< 5	31	< 1	< 2	0.40	106	493	13.2	2	< 1	0.02	11.8
PIT 3AS	19	0.8	< 0.2	2300	717	< 2	158	5	120	3.92	3	< 5	26	< 1	< 2	1.26	544	42	17.8	21	19	0.07	2.49
MAG 1	8	0.6	< 0.2	10	664	< 2	240	< 2	22	0.08	7	< 5	9	< 1	11	0.01	61	368	> 30.0	3	< 1	< 0.01	3.38

Analyte Symbol	Na	P	Sb	Sc	Se	Sn	Sr	Te	Tl	Ti	U	V	W	Y	Zr	S
Unit Symbol	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
Lower Limit	0.001	0.001	5	0.1	5	5	1	1	2	0.01	10	1	1	1	1	0.001
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
PIT C2	0.013	0.006	17	1.0	20	< 5	2	< 1	< 2	< 0.01	< 10	7	1	10	53	12.4
SWEST1	0.042	0.009	7	4.0	7	< 5	8	< 1	< 2	0.05	< 10	25	4	1	5	0.086
PIT 3AS	0.165	0.232	6	37.9	6	< 5	10	< 1	< 2	0.38	< 10	351	4	52	21	7.82
MAG 1	0.012	0.001	22	0.9	< 5	< 5	< 1	< 1	< 2	0.01	< 10	13	2	< 1	11	0.008

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	La	K	Mg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	%
Lower Limit	5	0.2	0.2	1	1	2	1	2	1	0.01	3	5	1	1	2	0.01	1	2	0.01	1	1	0.01	0.01
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		30.4	2.6	1070	804	14	32	749	681	0.38	360	9	651	< 1	1370	0.91	6	7	23.0	5	5	0.03	0.14
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	7.50	0.050	0.217
GXR-4 Meas		3.8	0.4	6180	138	302	37	48	73	2.99	96	< 5	141	1	14	0.98	14	56	3.19	10	49	1.73	1.63
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	64.5	4.01	1.66
GXR-6 Meas		0.7	0.2	67	1050	< 2	23	103	129	7.64	239	< 5	1360	< 1	< 2	0.19	13	82	5.85	16	11	1.13	0.41
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	13.9	1.87	0.609
SF85 Meas	838																						
SF85 Cert	848																						
OxD128 Meas	412																						
OxD128 Cert	424.000																						
Method Blank	< 5																						
Method Blank	5																						
Method Blank		< 0.2	< 0.2	2	1	< 2	< 1	< 2	8	< 0.01	< 3	< 5	< 1	< 1	< 2	< 0.01	< 1	< 2	< 0.01	< 1	< 1	< 0.01	< 0.01

Analyte Symbol	Na	P	Sb	Sc	Se	Sn	Sr	Te	Tl	Ti	U	V	W	Y	Zr	S
Unit Symbol	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
Lower Limit	0.001	0.001	5	0.1	5	5	1	1	2	0.01	10	1	1	1	1	0.001
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	0.072	0.038	91	1.0	6	26	174	< 1	< 2	< 0.01	29	86	155	26	14	0.195
GXR-1 Cert	0.0520	0.0650	122	1.58	16.6	54.0	275	13.0	0.390	0.036	34.9	80.0	164	32.0	38.0	0.257
GXR-4 Meas	0.148	0.113	< 5	6.6	< 5	6	72	< 1	< 2	0.14	< 10	85	14	12	10	1.67
GXR-4 Cert	0.564	0.120	4.80	7.70	5.60	5.60	221	0.970	3.20	0.29	6.20	87.0	30.8	14.0	186	1.77
GXR-6 Meas	0.129	0.031	6	22.9	< 5	< 5	34	< 1	< 2		< 10	189	< 1	7	16	0.013
GXR-6 Cert	0.104	0.0350	3.60	27.6	0.940	1.70	35.0	0.0180	2.20		1.54	186	1.90	14.0	110	0.0160
SF85 Meas																
SF85 Cert																
OxD128 Meas																
OxD128 Cert																
Method Blank																
Method Blank																
Method Blank	< 0.001	< 0.001	< 5	< 0.1	< 5	< 5	< 1	< 1	< 2	< 0.01	< 10	< 1	< 1	< 1	< 1	< 0.001



Date Submitted: 28-Sep-16
Invoice No.: A16-09920 (i)
Invoice Date: 06-Oct-16
Your Reference: Sep. 28/16

Paul Adams
20 Colinayre
Toronto ON M1T 3A9
Canada

ATTN: Paul Adams

CERTIFICATE OF ANALYSIS

5 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Timmins Au - Fire Assay AA

Code 1E3-Timmins Aqua Regia ICP(AQUAGEO)

REPORT **A16-09920 (i)**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3.

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written in a cursive style with a large, stylized 'E' and 'S'.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
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E-MAIL Timmins@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A16-09920

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
QUARTZ	< 5																						
PT		5.7	< 0.5	198	335	7	35	52	870	0.47	127	< 10	22	< 0.5	< 2	0.53	27	202	23.7	< 10	< 1	0.04	< 10
AND	7	0.2	< 0.5	420	1210	< 1	161	< 2	69	4.25	3	< 10	< 10	< 0.5	< 2	0.09	157	342	16.1	10	< 1	0.01	< 10
OLIV	< 5	< 0.2	< 0.5	43	794	< 1	29	< 2	30	4.75	< 2	< 10	11	< 0.5	< 2	3.75	33	38	6.85	10	< 1	< 0.01	< 10
RHY	< 5	0.6	< 0.5	1990	804	2	53	5	98	2.80	5	< 10	31	< 0.5	< 2	0.17	99	16	8.35	10	< 1	0.10	16

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	Th	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	20	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
QUARTZ																
PT	1.07	0.062	0.015	0.76	8	3	7	0.25	< 1	< 2	< 20	< 10	101	< 10	1	13
AND	4.31	0.014	0.018	5.74	7	17	1	0.12	< 1	< 2	< 20	< 10	154	< 10	3	8
OLIV	2.42	0.057	0.022	0.08	5	7	10	0.26	1	< 2	< 20	< 10	195	< 10	5	5
RHY	1.74	0.038	0.015	1.69	< 2	10	3	0.14	< 1	< 2	< 20	< 10	108	< 10	18	39

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		28.0	1.9	1090	822	14	26	552	609	0.47	347	< 10	395	0.6	1350	0.77	5	6	21.4	< 10	2	0.04	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-4 Meas		3.5	< 0.5	6500	142	340	39	40	65	2.64	97	< 10	81	1.0	15	0.82	14	56	2.99	< 10	< 1	1.91	55
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
GXR-6 Meas		0.3	< 0.5	63	1050	2	21	87	113	6.56	234	< 10	998	0.6	< 2	0.15	13	79	5.08	10	< 1	1.14	11
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
SF85 Meas	826																						
SF85 Cert	848																						
OxD128 Meas	424																						
OxD128 Cert	424.000																						
PT Orig		5.8	< 0.5	203	337	7	37	53	872	0.48	128	< 10	22	< 0.5	< 2	0.53	27	203	24.3	< 10	< 1	0.04	< 10
PT Dup		5.6	< 0.5	192	334	6	33	52	868	0.46	125	< 10	21	< 0.5	< 2	0.54	26	200	23.1	< 10	< 1	0.04	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank	< 5																						
Method Blank	< 5																						

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	Th	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	20	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	0.16	0.075	0.037	0.19	73	< 1	171	< 0.01	9	< 2	< 20	30	85	130	17	12
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	13.0	0.390	2.44	34.9	80.0	164	32.0	38.0
GXR-4 Meas	1.69	0.125	0.129	1.79	3	6	76	0.15	2	< 2	< 20	< 10	88	13	8	7
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	0.970	3.20	22.5	6.20	87.0	30.8	14.0	186
GXR-6 Meas	0.39	0.097	0.033	0.01	3	18	34		< 1	< 2	< 20	< 10	180	< 10	4	11
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	5.30	1.54	186	1.90	14.0	110
SF85 Meas																
SF85 Cert																
OxD128 Meas																
OxD128 Cert																
PT Orig	1.09	0.064	0.016	0.77	8	3	7	0.26	< 1	< 2	< 20	< 10	103	< 10	1	13
PT Dup	1.06	0.061	0.015	0.74	9	3	7	0.25	< 1	< 2	< 20	< 10	100	< 10	1	12
Method Blank	< 0.01	0.009	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 20	< 10	< 1	< 10	< 1	< 1
Method Blank																
Method Blank																



Date Submitted: 20-Oct-16
Invoice No.: A16-11026
Invoice Date: 01-Dec-16
Your Reference:

Paul Adams
20 Colinayre
Toronto ON M1T 3A9
Canada

ATTN: Paul Adams

CERTIFICATE OF ANALYSIS

5 Vegetation samples were submitted for analysis.

The following analytical package(s) were requested:

Code 2B-15g Vegetation INAA(INAAGEO)

REPORT **A16-11026**

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Notes:

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is stylized with loops and a horizontal line at the end.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A16-11026

Analyte Symbol	Au	Ag	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hg	Hf	Ir	K	Mo	Na	Ni	Rb	Sb	Sc	Se	Sr	Ta
Unit Symbol	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.3	0.01	5	0.01	0.01	0.1	0.3	0.05	0.005	0.05	0.05	0.1	0.01	0.05	1	2	1	0.005	0.01	0.1	100	0.05
Method Code	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
13-1	3.0	< 0.3	2.46	65	7.21	0.40	10.4	7.0	0.27	0.484	< 0.05	0.08	< 0.1	1.86	0.19	1430	34	9	0.155	0.90	< 0.1	< 100	< 0.05
13-2	4.5	< 0.3	4.18	67	7.99	0.33	12.4	4.8	< 0.05	0.484	0.07	< 0.05	< 0.1	2.02	0.78	1160	35	15	0.270	0.95	< 0.1	< 100	< 0.05
13-3	2.9	< 0.3	3.29	85	5.23	0.28	12.4	4.3	0.25	0.502	< 0.05	< 0.05	< 0.1	3.08	< 0.05	809	29	10	0.211	0.80	< 0.1	< 100	< 0.05
13-4	2.5	< 0.3	3.76	67	5.06	0.53	16.5	4.0	< 0.05	0.748	< 0.05	< 0.05	< 0.1	3.00	0.12	591	74	4	0.300	1.05	< 0.1	< 100	< 0.05
13-5	2.6	< 0.3	0.68	74	5.82	0.32	1.8	2.4	0.18	0.176	< 0.05	< 0.05	< 0.1	2.72	0.69	557	53	10	0.118	0.45	< 0.1	< 100	< 0.05

Analyte Symbol	Th	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Lu	Yb	Mass
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g
Lower Limit	0.1	0.01	0.05	2	0.01	0.1	0.3	0.001	0.05	0.1	0.001	0.005	
Method Code	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
13-1	0.2	< 0.01	< 0.05	66	2.05	4.9	1.0	0.312	< 0.05	< 0.1	< 0.001	0.501	11.9
13-2	0.2	< 0.01	< 0.05	66	1.80	4.9	< 0.3	0.399	< 0.05	< 0.1	< 0.001	< 0.005	11.0
13-3	0.2	< 0.01	< 0.05	50	1.60	4.5	1.5	0.289	< 0.05	< 0.1	0.001	0.312	12.1
13-4	0.1	< 0.01	< 0.05	39	3.11	6.9	1.4	0.490	< 0.05	< 0.1	< 0.001	0.351	11.8
13-5	0.1	< 0.01	< 0.05	44	1.11	3.9	1.5	0.147	< 0.05	< 0.1	< 0.001	< 0.005	11.3

Analyte Symbol	Au	As	Ba	Br	Ca	Co	Fe	K	Na	Rb	Sb	Sc	Sr	U	Zn	La	Ce	Sm	Yb
Unit Symbol	ppb	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.01	5	0.01	0.01	0.1	0.005	0.01	1	1	0.005	0.01	100	0.01	2	0.01	0.1	0.001	0.005
Method Code	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
L-Std-3 Meas	21.5	1.22	71	4.07	4.51	1.4	0.361	1.20	1660	8	0.245	0.85	100	< 0.01	66	2.71	5.6	0.396	0.292
L-Std-3 Cert	20.0	1.23	71.0	4.00	3.60	1.40	0.350	1.20	1660	9.00	0.240	0.890	105	0.210	64.0	2.73	5.60	0.400	0.290



Date Submitted: 20-Oct-16
Invoice No.: A16-11026 (i)
Invoice Date: 21-Mar-17
Your Reference:

Paul Adams
20 Colinayre
Toronto ON M1T 3A9
Canada

ATTN: Paul Adams

CERTIFICATE OF ANALYSIS

5 Vegetation samples were submitted for analysis.

The following analytical package(s) were requested:

Code 2B-15g Vegetation INAA(INAAGEO)

REPORT **A16-11026 (i)**

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Notes:

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is stylized with loops and is positioned above a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Ag	Cu	Mn	Mo	Ni	Pb	Zn	Unashed Weight	Ashed Weight	% Ash
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g	g	%
Lower Limit	0.2	1	1	1	1	1	1			
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	none	none	none
13-1	0.4	246	3070	7	905	111	624	10.3	0.420	4.09
13-2	0.6	205	5220	6	735	144	506	10.4	0.470	4.53
13-3	0.4	185	3250	5	541	143	426	10.3	0.420	4.10
13-4	0.4	211	4130	5	1330	141	253	10.6	0.520	4.92
13-5	0.3	99	2160	6	701	40	307	10.4	0.540	5.17

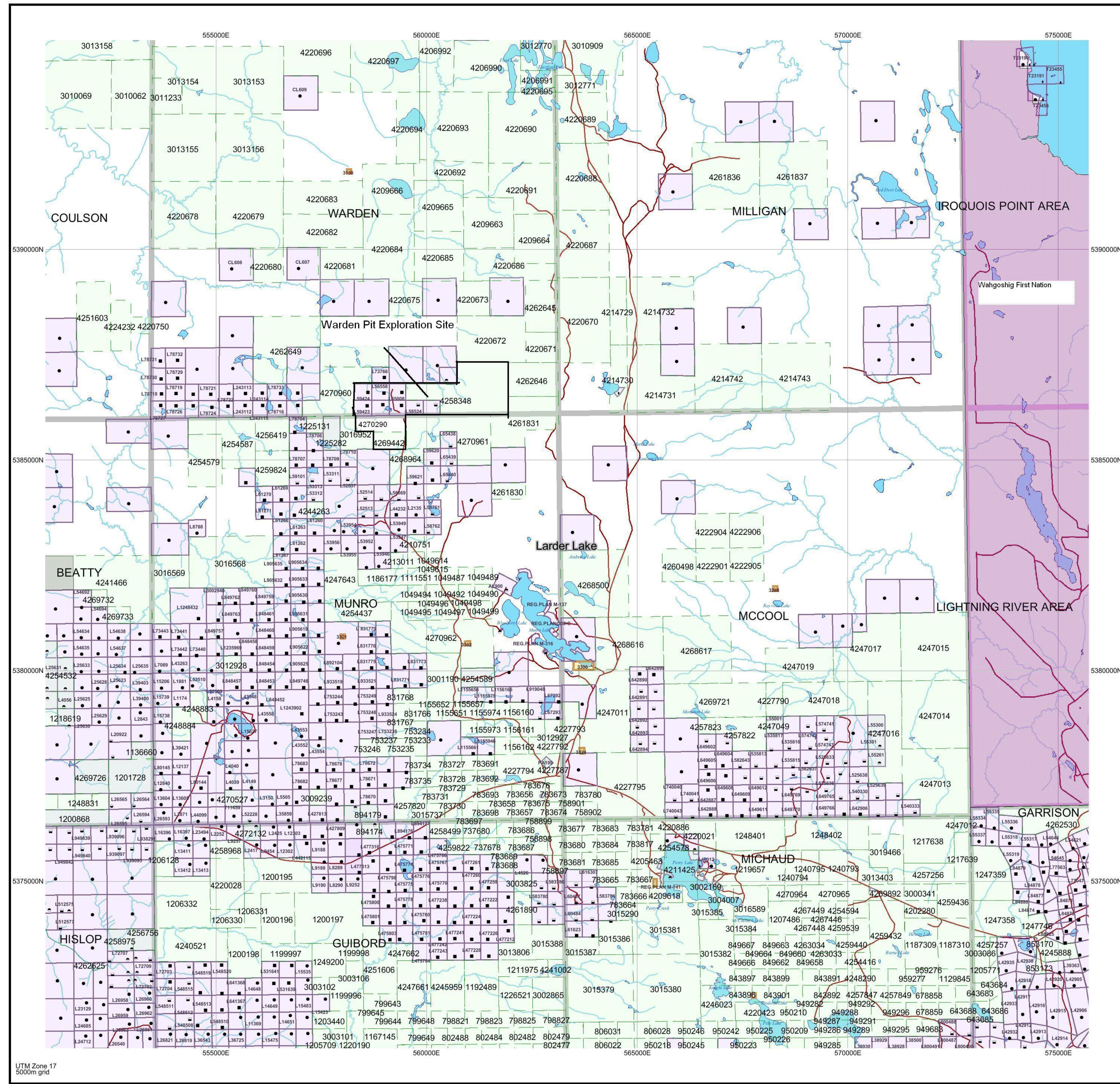
Analyte Symbol	Ag	Cu	Mn	Mo	Ni	Pb	Zn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	1	1	1	1	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	28.3	1100	781	14	36	640	639
GXR-1 Cert	31.0	1110	852	18.0	41.0	730	760
GXR-1 Meas	26.6	1130	784	14	33	613	667
GXR-1 Cert	31.0	1110	852	18.0	41.0	730	760
GXR-4 Meas	3.2	5990	136	297	36	39	65
GXR-4 Cert	4.0	6520	155	310	42.0	52.0	73.0
GXR-4 Meas	3.2	6280	142	302	36	41	66
GXR-4 Cert	4.0	6520	155	310	42.0	52.0	73.0
GXR-6 Meas	< 0.2	65	1060	3	24	94	125
GXR-6 Cert	1.30	66.0	1010	2.40	27.0	101	118
GXR-6 Meas	0.3	70	1090	1	22	94	129
GXR-6 Cert	1.30	66.0	1010	2.40	27.0	101	118
SdAR-M2 (U.S.G.S.) Meas		240		14	43	842	822
SdAR-M2 (U.S.G.S.) Cert		236.00 00		13.3	48.8	808	760
13-5 Orig	< 0.2	113	3060	7	923	31	430
13-5 Dup	< 0.2	110	2860	7	880	31	408
Method Blank	< 0.2	< 1	1	< 1	< 1	< 1	1
Method Blank	< 0.2	< 1	< 1	< 1	< 1	< 1	2

Date / Time of Issue: Sun Mar 24 16:12:37 EST 2013

TOWNSHIP / AREA PLAN
MCCOOL G-3674

ADMINISTRATIVE DISTRICTS / DIVISIONS

Mining Division Larder Lake
Land Titles/Registry Division COCHRANE
Ministry of Natural Resources District KIRKLAND LAKE



TOPOGRAPHIC

- Administrative Boundaries
- Township
- Concession, Lot
- Provincial Park
- Indian Reserve
- Cliff, Pit & Pile
- Combur
- Mine Shafts
- Mine Headframe
- Railway
- Road
- Trail
- Natural Gas Pipeline
- Utilities
- Tower

Land Tenure

Freehold Patent

- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

Leasehold Patent

- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

Licence of Occupation

- Uses Not Specified
- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only
- Land Use Permit
- Order In Council (Not open for staking)
- Water Power Lease Agreement

Mining Claim

- 1234567
- Filed Only Mining Claims

LAND TENURE WITHDRAWALS

1234 Areas Withdrawn from Disposition

Mining Acts Withdrawal Types

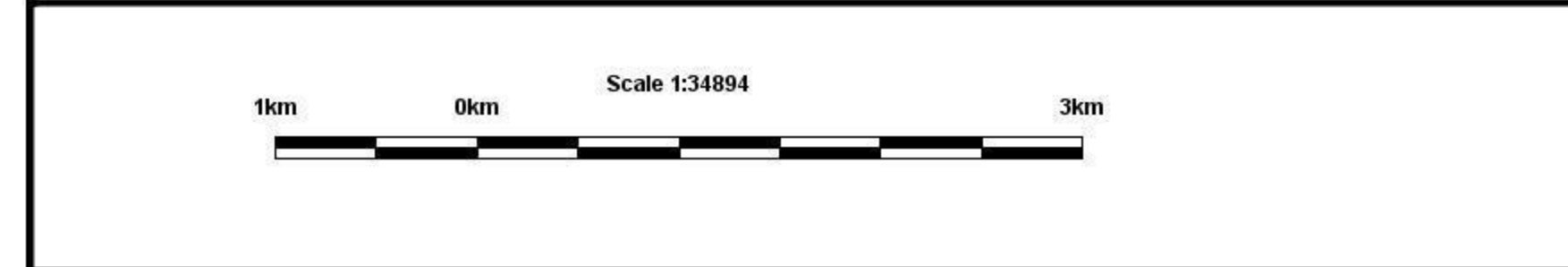
- Wsm Surface And Mining Rights Withdrawal
- Ws Surface Rights Only Withdrawal
- Wm Mining Rights Only Withdrawal

Order In Council Withdrawal Types

- W'sm Surface And Mining Rights Withdrawal
- W's Surface Rights Only Withdrawal
- W'm Mining Rights Only Withdrawal

IMPORTANT NOTICES

Ns



LAND TENURE WITHDRAWAL DESCRIPTIONS

Identifier	Type	Date	Description
2943	Wsm	Jan 1, 2001	FLOODING ELEVATION: 826 FT & 881 FT L.O. 8674
3066	Wsm	Jan 1, 2001	PART OF 1 RES.
3150	Wsm	Jan 1, 2001	400 FT SURFACE RIGHTS RESERVATION AROUND ALL LAKES & RIVERS
3288	Wsm	Jan 1, 2001	400 FT SURFACE RIGHTS RESERVATION ALONG THE SHORES OF ALL LAKES & RIVERS
3301	Wsm	Jan 1, 2001	400 FT SURFACE RIGHTS RESERVATION ALONG THE SHORES OF ALL LAKES & RIVERS
3302	Wsm	Jan 1, 2001	SURFACE RIGHTS WITHDRAWN FROM STAKING, SECTION 164388, 91/69
3306	Wsm	Jan 1, 2001	SEC. 39(a) R.S.O. 50 SRO 41322
3324	Wsm	Jan 1, 2001	SEC. 42 (R.S.O. 50) SRO 164280
3354	Wsm	Jan 1, 2001	SURFACE RIGHTS WITHDRAWN FROM STAKING SECTION 42R (S.O. 60) FILE 164588
3387	Wsm	Jan 1, 2001	400 FT SURFACE RIGHTS RESERVATION ALONG THE SHORES OF ALL LAKES & RIVERS
3411	Wsm	Jan 1, 2001	400 FT SURFACE RIGHTS RESERVATION ALONG THE SHORES OF ALL LAKES & RIVERS
WL-2313	Wm	Mar 14, 2013	"a back" http://www.mndm.gov.on.ca/mines/standards/withdrawals/2013w2-13.pdf "WL-2313" MFO withdrawal 0.35 Mining Act RSO 1999, March 14, 2013 click to link to withdrawal order file
WL-L1616	Wsm	Feb 1, 2004	"a back" http://www.mndm.gov.on.ca/mines/standards/withdrawals/wl1616-04_a.html-WL-L1616 ONT M&S withdrawal 0.35 Mining Act RSO 1999, 01/02/04 Boundary generally depicts area withdrawn. Click to view actual area-WL-NR W.678 193174 611/78 S.R.O.
W.678	Wsm	Jan 1, 2001	

These wishing to stake mining claims should consult with the Provincial Mining Recorder's Office of the Ministry of Northern Development and Mines for additional information on the status of the lands shown hereon. This map is not intended for navigational, survey, or land title determination purposes as the information shown on this map is compiled from various sources. Completeness and accuracy are not guaranteed. Additional information may also be obtained through the local Land Titles or Registry Office, or the Ministry of Natural Resources. The information shown is derived from digital data available in the Provincial Mining Recorder's Office at the time of downloading from the Ministry of Northern Development and Mines web site.

General Information and Limitations

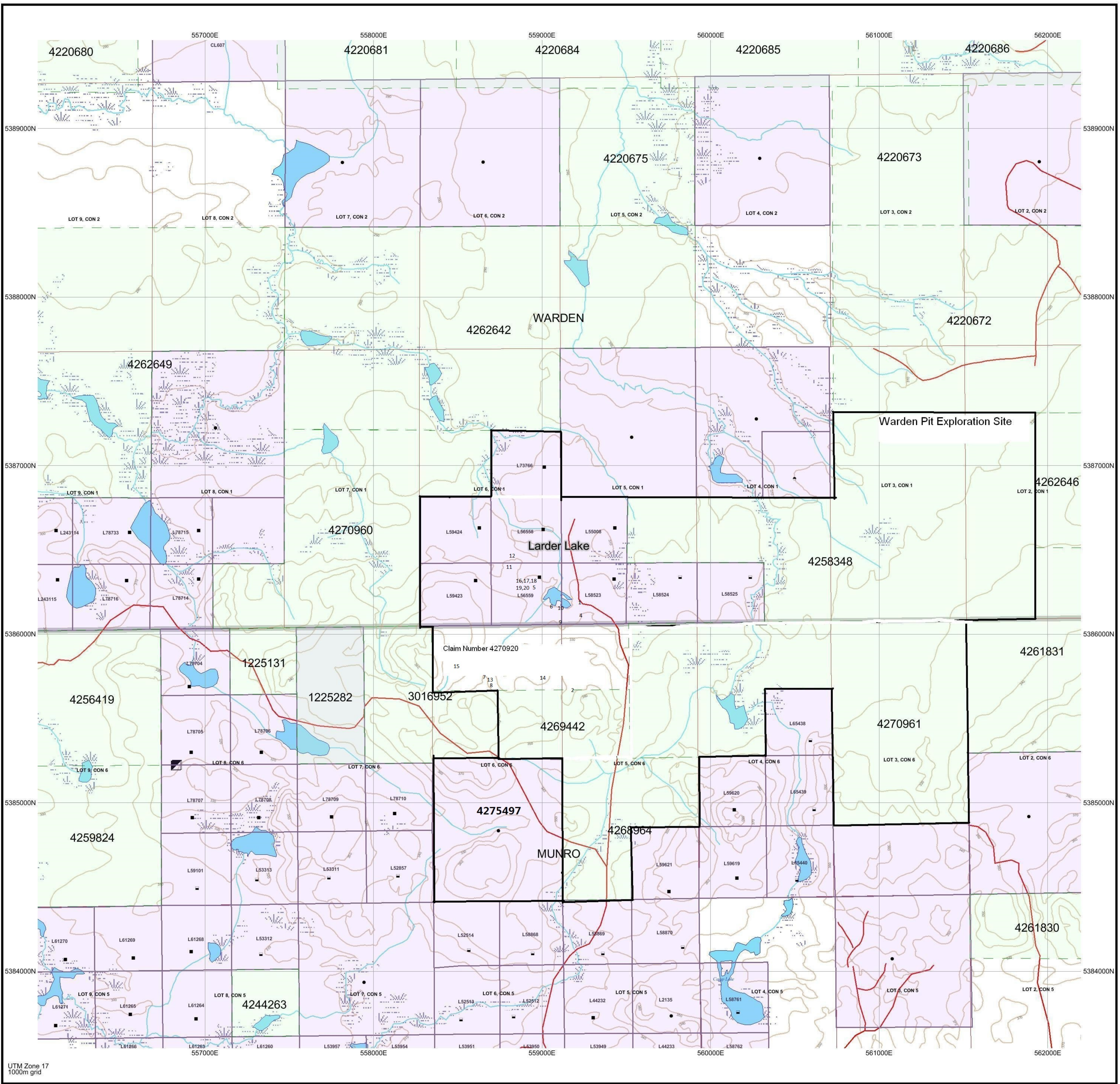
Contact Information:
Provincial Mining Recorder's Office
Willet Green Millar Center 933 Ramsey Lake Road
Stouffville ON P3E 6E5
Home Page: www.mndm.gov.on.ca/MNDMINESLANDS/Minmgpge.htm

Toll Free:
Tel: 1 (888) 415-9845 ext 5742
Fax: 1 (877) 670-1444

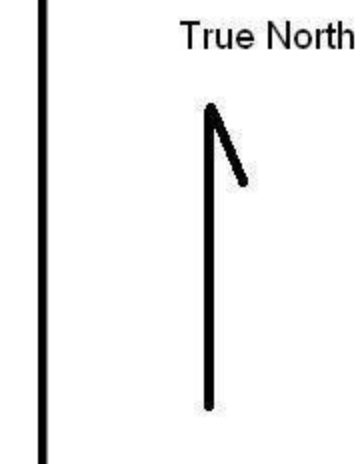
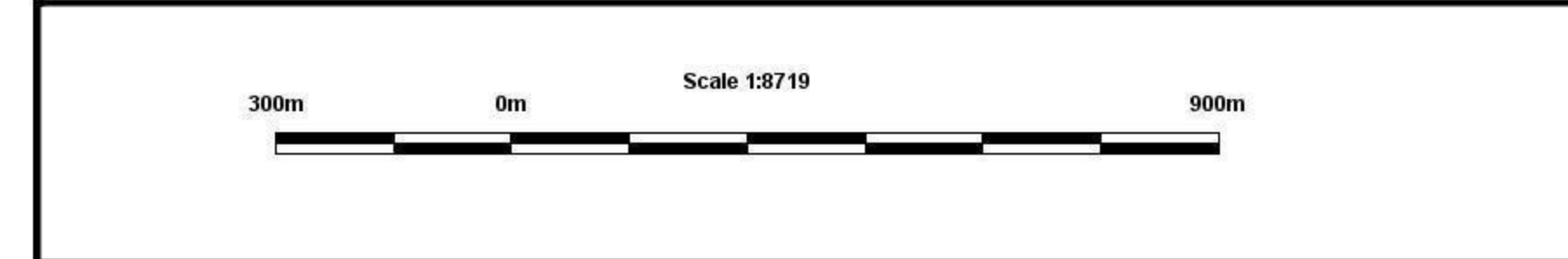
Map Datum: NAD 83
Projection: UTM (5 degree)
Topographic Data Source: Land Information Ontario
Mining Land Tenure Source: Provincial Mining Recorder's Office

This map may not show unregistered land tenure and interests in land including certain patents, leases, easements, right of ways, flooding rights, licences, or other forms of disposition of rights and interest from the Crown. Also certain land tenure and land uses that restrict or prohibit free entry to stake mining claims may not be illustrated.

Date / Time of Issue: Sun Mar 24 16:53:37 EST 2013
TOWNSHIP / AREA WARDEN PLAN G-3727
ADMINISTRATIVE DISTRICTS / DIVISIONS Mining Division Larder Lake Land Titles/Registry Division COCHRANE Ministry of Natural Resources District KIRKLAND LAKE



TOPOGRAPHIC legend (Administrative Boundaries, Township, Concession, Lot, etc.)
Land Tenure legend (Freehold Patent, Leasehold Patent, Licence of Occupation, etc.)
LAND TENURE WITHDRAWALS legend (Areas Withdrawn from Disposition, Mining Acts Withdrawal Types, etc.)
IMPORTANT NOTICES legend (Ns)



Those wishing to stake mining claims should consult with the Provincial Mining Recorders' Office of the Ministry of Northern Development and Mines for additional information on the status of the lands shown hereon.

General Information and Limitations
Contact Information: Provincial Mining Recorders' Office, 933 Ramsey Lake Road, Sudbury ON P2E 6E5
Toll Free Tel: 1 (888) 415-9845 ext 5742
Fax: 1 (877) 670-1444
Map Datum: NAD 83
Projection: UTM (8 degree)
Topographic Data Source: Land Information Ontario
Mining Land Tenure Source: Provincial Mining Recorders' Office

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