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2.57911

Report On

Drill Core Sampling

Cardiff Township

For

Skead Holdings Ltd.

By

R.A. MacGregor, P. Eng.

April 24, 2017

2·57911

Table of Contents

Summary

Sampling and relogging of sections of 5 holes previously drilled and stored at the MNDM core storage in Tweed, Ontario were resampled and analysed for a suite of elements. The sampling was a follow up to some previous sampling of the holes. The sampling was to check for sulphur and base metals indicated from previous sampling.

Location

The Cardiff Twp. property is located near Halls Lake which is about 30 km west of Bancroft, Ontario and 5 km south-west of Wilberforce, Ontario.

Access

Access to Halls Lake in Cardiff Twp. can be obtained by following a forest access road which runs from Hwy 121 some 25 km west of Bancroft, Ontario. The access road runs northerly from Hwy 121 changing to an ATV trail about two-thirds of the way to Halls Lake.

Previous Exploration

The property was explored in the 1950's by diamond drilling and underground exploration. There are two adits on the property. Records for this work are no longer available.

The property was staked and examined by El Nino Ventures in 2005. Diamond drilling was carried out in 2007 with 6 holes being drilled. Radioactive samples were analysed for U, Th and REE. These holes were stored at the MNDM core facility south of Tweed, Ontario and sampling of this core was initiated in late 2014.

Work Program

Logs of holes had been examined and a number of samples taken previously. Additional sampling was indicated adjacent to or in similar lithology from anomalous values.

A list was made up of sample sections within each hole which were to be sampled. Jim Laidlaw of Madoc, Ontario retrieved the core boxes containing the sections to be sampled from the core storage. Sections of core to be sampled were split in half with one half being returned to the core box, the other half was placed in a plastic bag, along with a numbered sample tag. The same number was marked against the listed sample section. The sample bag was closed with black tape and the number also marked with black permanent marker on the outside of the plastic sample bag. The core was placed on racks which will facilitate further work on the core rather than sorting through stacked core.

Samples were stored in large rice type bags. They were later picked up in Madoc and transported to Swastika Labs sample preparation facility in Swastika, Ontario. Pulps were then placed in paper envelopes and shipped to Acme labs in Vancouver, B.C. and analysed by ICP-MS after 4-acid dissolution. Pulps and rejects have been stored for future reference.

Results and Conclusions

The additional sampling and analysis gave similar anomalous but sub economic values in Mo and Cu. Coarse graphite flakes were noted in the core which was not reported in previous logs. This may be worth further follow up.

Respectfully submitted,

R. A. MacGregor, P. Eng.

April 24, 2017

Appendix I

Sampling

SAMPLE NUMBER	COMPANY DDH	FROM	TO	INTERVAL	COMPANY BOX NUMBER	TOWNSHIP	REMARK
51439	H-1	73.00	74.50	1.50	17	CARDIFF	Bio-feld-qtz gneiss; 1-2% diss flake graphite in top half of sample; 1-2% diss py; 2-3% diss po; strong MA.
51440	H-1	74.50	76.00	1.50	18	CARDIFF	Bio-feld-qtz gneiss; 1% diss flake graphite; <1% py-po; 2 cm carbonate vein.
51441	H-1	76.00	77.50	1.50	18	CARDIFF	Bio-feld-qtz gneiss; narrow graphite-py bands; po-py in feldspathic bands; strong MA.
51442	H-1	77.50	79.00	1.50	19	CARDIFF	Bio-feld-qtz gneiss; 1% diss graphite flakes; 1-2% diss po-py; rusty patches; strong spotty MA.
51443	H-1	79.00	80.50	1.50	19	CARDIFF	Bio-feld-qtz gneiss; 1% diss graphite flakes; 1-2% diss po-py; rusty patches; strong spotty MA.
51444	H-1	80.50	82.00	1.50	19	CARDIFF	Bio-feld-qtz gneiss; 1-2% diss graphite flakes; 1-2% diss po-py and c-g po-py patches; rusty weathered surface; strong MA.
51445	H-1	82.00	83.50	1.50	19 & 20	CARDIFF	Bio-feld-qtz banded gneiss; 1% diss graphite, 1-3% diss po-py, few semi-massive py blebs and veinlets; few euhedral purple garnets; strong spotty MA.
51446	H-1	85.00	86.00	1.00	20 & 21	CARDIFF	Feld-qtz gneiss with pegmatite patches; 1-2% diss f-g graphite; 3-5% diss po-py strong MA.
51447	H-1	86.00	87.10	1.10	21	CARDIFF	Feld-qtz-hornblende gneiss with pegmatite band; 2-3% diss and patchy po-py; 1/4 sample, strong MA
51448	H-1	87.10	88.70	1.60	21	CARDIFF	Bio-feld-qtz gneiss; 1-2% f-g diss graphite; 2-3% po-py as diss and c-g blebs; strong MA.
51449	H-1	90.20	91.70	1.50	22	CARDIFF	Bio-feld-qtz graphite gneiss; 1-2% diss graphite flakes; 2% diss po-py; strong MA.
51450	H-2	101.00	102.00	1.00	23 & 24	CARDIFF	Bio-feld-qtz-gar-gp banded gneiss; 1-2% diss f-g graphite; 3-5% euhedral pink-purple garnets; <1% diss po-py; strong spotty MA.
310126	H-2	137.55	138.97	1.42	32	CARDIFF	Bio-feld-qtz gneiss; 1% diss bands of graphite; <1% diss po-py; strong spotty MA.
310127	H-2	138.97	140.50	1.53	33	CARDIFF	Bio-hornblende-feld gneiss; black; minor py veinlets; trace po(?); weak spotty MA.
310128	H-2	178.50	180.00	1.50	42	CARDIFF	Feld-bio-garnet gneiss;<1% diss and fracture filled py; narrow sections of horn-bio breccia sections.
310129	H-2	180.00	181.49	1.49	42 & 43	CARDIFF	Bio-feld-gar gneiss; 1-3% f-g diss graphite; trace py.

SAMPLE NUMBER	COMPANY DDH	FROM	TO	INTERVAL	COMPANY BOX NUMBER	TOWNSHIP	REMARK
310130	H-4	83.50	85.00	1.50	19 & 20	CARDIFF	Bio-feld-qtz banded gneiss with pink peg feld vein; 1% diss gp in narrow bands; 1-2% diss po-py and fracture fill py; spotty strong MA.
310131	H-4	85.00	86.50	1.50	20	CARDIFF	Bio-feld-qtz-gp-gar banded gneiss; 1-2% f-m-g diss graphite; bands of euhedral purple garnets in bottom third of sample.
310132	H-5	175.00	176.44	1.44	44	CARDIFF	Bio-feld-qtz-gp banded gneiss; <1% diss po-py; 1% diss f-g graphite flakes; core very rusty weathered.
310133	H-5	176.44	177.10	0.66	44	CARDIFF	Feld-qtz-bio-gp banded gneiss cut by feld-qtz peg veining containing c-g euhedral graphite crystals; <1% diss po-py; spotty strong MA.
310134	H-5	177.10	178.60	1.50	44	CARDIFF	Bio-feld-qtz banded gneiss; 2-3% f-g graphite flakes; 1-2% diss po-py; spotty strong MA.
310135	H-5	183.50	185.00	1.50	46	CARDIFF	Bio-feld-qtz-gp gneiss with quartz peg veins; 2-3% f to cg graphite rusty weathered; <1% po; strong spotty MA.
310136	H-5	185.00	186.50	1.50	46	CARDIFF	Bio-feld-qtz-gp gneiss with quartz peg veins; 2-3% f to cg graphite rusty weathered; <1% po; strong spotty MA.
310137	H-5	186.50	188.00	1.50	47	CARDIFF	Bio-feld-qtz-gp gneiss with quartz peg veins; 2-3% f to cg graphite rusty weathered; <1% po; strong spotty MA.
310138	H-5	188.00	189.50	1.50	47	CARDIFF	Bio-feld-qtz-gp gneiss with quartz peg veins; 2-3% f to cg graphite rusty weathered; <1% po; strong spotty MA.
310139	H-6	238.50	240.00	1.50	56 & 57	CARDIFF	Meta-gabbro m to cg and weakly foliated with a few pink feld veins or fragments; trace py and po; c-g pyroxene crystals.
TOTALS	**5 Holes**	**26 Samples**		**36.74 m**			

Measurements in meters

Sampling

Sample No.	Drill Hole	IMA Sample No.	IAX Sample No.
51439	H-1	1875	
51440	H-1	1874	
51441	H-1	1873	
51442	H-1	1872	
51443	H-1	1871	
51444	H-1	1870	
51445	H-1	1869	
51446	H-1	1868	
51447	H-1	1867	
51448	H-1	1866	
51449	H-1	1865	
51450	H-2	1864	
310126	H-2	1863	
310127	H-2	1862	
310128	H-2	1861	
310129	H-2	1860	
310130	H-4	1859	
310131	H-4	1858	
310132	H-5	1853	
310133	H-5	1854	
310134	H-5	1857	
310135	H-5	1856	
310136	H-5	1855	
310137	H-5	1852	
310138	H-5	1851	
310139	H-6	1850	486

Appendix II

Certificate of Analysis

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **MacGregor, R.A.**
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4 Canada

Submitted By: R.A. MacGregor
Receiving Lab: Canada-Vancouver
Received: March 07, 2017
Report Date: March 15, 2017
Page: 1 of 7

CERTIFICATE OF ANALYSIS VAN17000385.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 158

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SLBHP	157	Sorting, labeling and boxing samples received as pulps			VAN
MA200	157	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
DRPLP	157	Warehouse handling / disposition of pulps			VAN

ADDITIONAL COMMENTS

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

Invoice To: MacGregor, R.A.
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4
Canada

CC:

JEFFREY CANNON
Geochemistry Department Supervisor

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. Bureau Veritas 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.

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: **MacGregor, R.A.**
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given

Report Date: March 15, 2017

CERTIFICATE OF ANALYSIS VAN17000385.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001	0.1
IMA1839	Pulp	0.4	38.1	3.7	72	<0.1	104.5	27.7	894	4.44	3	1.2	5.1	575	0.2	3.1	<0.1	118	4.24	0.082	31.0
IMA1840	Pulp	1.2	32.0	13.4	76	<0.1	176.5	24.3	735	4.00	76	0.6	1.9	645	0.2	7.3	0.2	101	2.45	0.050	15.6
IMA1841	Pulp	2.3	41.0	5.7	65	<0.1	242.3	29.2	920	4.91	23	0.5	1.9	592	<0.1	3.3	0.2	116	2.45	0.048	14.6
IMA1842	Pulp	15.6	104.3	5.0	99	0.1	99.7	43.5	1381	7.65	2	0.6	1.6	359	0.1	0.2	0.4	249	6.16	0.086	12.1
IMA1843	Pulp	2.3	56.8	41.2	49	0.2	23.7	11.2	464	2.64	2	0.4	1.0	365	0.1	<0.1	0.5	68	1.99	0.042	8.7
IMA1844	Pulp	1.5	132.8	8.0	24	0.3	96.4	24.3	656	3.63	48	0.7	2.1	409	0.1	0.4	0.5	132	2.94	0.071	19.5
IMA1845	Pulp	8.1	85.4	7.4	60	0.2	133.3	35.8	788	5.11	7	3.0	8.0	344	0.2	0.8	0.3	211	5.28	0.180	44.9
IMA1846	Pulp	1.0	56.2	14.0	76	0.1	77.5	33.2	1041	5.03	1	1.7	6.1	870	0.2	1.0	0.3	136	5.59	0.173	40.2
IMA1847	Pulp	2.4	19.3	3.8	23	0.1	47.9	11.2	557	2.87	29	0.3	0.9	352	<0.1	0.8	0.1	69	3.06	0.030	8.1
IMA1848	Pulp	2.6	5.7	26.2	4	<0.1	7.5	4.2	25	0.33	5	17.3	75.5	21	<0.1	0.2	0.5	8	0.03	0.011	92.7
IMA1849	Pulp	6.9	24.9	53.5	13	0.2	11.2	25.0	123	1.81	36	128.0	705.0	25	<0.1	0.6	0.6	15	0.26	0.078	329.0
IMA1850	Pulp	3.3	22.1	11.3	74	<0.1	27.5	18.2	1187	4.92	3	3.7	4.9	511	0.1	0.4	0.2	119	8.02	0.106	40.9
IMA1851	Pulp	29.0	209.6	18.6	115	0.3	80.1	31.8	589	7.96	2	4.2	9.7	93	0.3	<0.1	0.7	261	1.08	0.105	37.1
IMA1852	Pulp	22.8	182.3	22.5	101	0.3	71.3	29.0	589	7.71	2	6.9	16.8	133	0.4	<0.1	0.8	178	1.04	0.082	61.9
IMA1853	Pulp	13.3	159.2	18.8	55	0.2	78.5	33.6	451	8.73	2	5.4	9.6	113	0.3	<0.1	0.9	153	0.24	0.056	36.6
IMA1854	Pulp	8.0	109.2	21.2	48	0.2	51.2	21.3	353	5.49	4	4.1	8.1	132	0.2	<0.1	0.6	130	0.22	0.044	30.8
IMA1855	Pulp	28.0	215.5	16.4	118	0.4	84.9	35.3	699	9.21	1	8.8	23.7	94	0.7	<0.1	0.7	173	0.71	0.064	86.7
IMA1856	Pulp	29.0	221.3	10.9	81	0.4	91.4	38.8	567	9.98	1	6.7	17.2	89	0.4	<0.1	1.1	191	0.73	0.074	61.9
IMA1857	Pulp	23.7	192.6	19.0	47	0.4	89.8	35.9	385	8.23	3	5.8	11.4	137	0.2	<0.1	1.2	125	0.60	0.094	48.4
IMA1858	Pulp	40.4	174.3	55.8	250	0.2	85.8	32.1	1827	9.29	1	25.6	11.0	63	0.3	<0.1	0.5	186	0.59	0.095	45.8
IMA1859	Pulp	31.3	199.4	28.2	150	0.3	66.4	22.2	968	7.15	3	18.3	12.2	289	0.4	<0.1	0.4	119	1.53	0.130	77.0
IMA1860	Pulp	15.3	122.0	14.6	174	0.3	34.9	13.0	2162	7.33	1	10.1	10.6	128	0.5	<0.1	0.2	79	1.92	0.118	55.3
IMA1861	Pulp	19.3	181.7	9.0	239	0.2	37.8	29.1	4985	13.75	<1	5.8	5.7	193	0.8	<0.1	0.2	184	4.13	0.724	52.1
IMA1862	Pulp	3.7	38.9	5.8	157	<0.1	52.0	48.9	1980	9.25	<1	1.2	0.7	300	0.1	<0.1	0.2	298	7.38	0.061	13.6
IMA1863	Pulp	14.2	249.8	10.6	111	0.1	79.0	52.3	1308	9.04	<1	6.2	4.0	254	0.1	0.1	0.4	271	5.09	0.071	25.2
IMA1864	Pulp	23.2	180.8	35.8	158	0.3	47.3	19.7	2000	7.72	<1	17.3	14.8	149	0.7	<0.1	0.3	109	1.51	0.161	78.7
IMA1865	Pulp	21.0	175.8	36.9	48	0.7	83.9	28.0	598	6.10	1	7.0	14.3	192	0.3	<0.1	0.6	124	1.98	0.083	53.2
IMA1866	Pulp	18.2	222.5	25.7	47	0.3	94.0	38.3	397	9.73	<1	10.1	13.5	139	<0.1	<0.1	0.7	154	1.04	0.060	44.9
IMA1867	Pulp	5.6	180.7	115.8	16	0.5	31.2	10.9	67	3.00	1	482.7	586.5	124	0.1	0.1	0.3	22	0.63	0.024	38.5
IMA1868	Pulp	15.4	280.9	38.6	21	0.3	89.3	36.0	196	8.41	<1	13.1	17.3	189	0.1	<0.1	0.9	68	0.85	0.048	40.6

BUREAU VERITAS MINERAL LABORATORIES Canada

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28 Ford St.
Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given
Report Date: March 15, 2017

CERTIFICATE OF ANALYSIS VAN17000385.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf
	Unit	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	0.1
IMA1839	Pulp	328	4.05	909	0.117	6.17	2.814	0.88	1.4	108.0	65	0.7	11.1	1.0	<0.1	<1	17	25.1	<0.1	31.7	3.0
IMA1840	Pulp	279	2.23	729	0.109	7.11	3.449	1.75	6.8	62.5	35	0.5	5.5	1.0	<0.1	1	12	7.6	0.3	45.3	1.9
IMA1841	Pulp	428	2.35	740	0.086	6.60	2.476	1.89	4.9	61.1	33	0.4	5.3	0.6	<0.1	<1	13	6.5	0.6	56.7	1.7
IMA1842	Pulp	136	3.78	559	0.595	5.90	1.547	3.00	1.3	72.3	28	1.3	21.4	3.6	0.2	1	31	12.2	0.9	100.4	2.0
IMA1843	Pulp	62	1.05	574	0.212	6.89	5.226	1.00	0.4	64.6	21	0.7	6.4	2.2	0.1	1	7	10.2	0.3	28.2	2.1
IMA1844	Pulp	587	2.25	37	0.149	5.84	4.425	0.06	13.3	88.5	43	0.6	9.0	1.7	0.1	<1	16	9.9	0.8	1.0	2.4
IMA1845	Pulp	301	3.39	435	0.199	6.88	4.095	0.08	1.6	245.2	96	1.2	22.1	2.2	0.1	2	21	18.0	0.6	1.3	6.1
IMA1846	Pulp	209	4.02	258	0.370	6.28	2.904	2.82	0.3	144.0	86	1.1	14.1	3.2	0.2	2	18	13.9	0.8	142.9	3.7
IMA1847	Pulp	26	1.77	545	0.120	7.56	4.962	1.25	7.3	71.9	18	1.6	6.5	1.1	<0.1	1	5	7.3	0.8	28.5	2.2
IMA1848	Pulp	84	0.06	611	0.091	3.98	0.070	4.39	0.2	85.0	161	1.4	9.3	7.1	0.8	<1	1	2.0	<0.1	180.0	2.4
IMA1849	Pulp	155	0.16	262	0.253	2.47	0.070	3.89	3.2	184.8	600	1.5	55.3	32.4	3.5	<1	2	4.6	1.4	151.6	5.2
IMA1850	Pulp	74	3.48	997	0.617	6.60	1.917	3.76	1.0	80.2	83	5.0	46.9	7.7	0.5	2	15	36.7	0.3	155.4	2.6
IMA1851	Pulp	194	1.32	84	0.297	6.14	0.993	3.35	0.8	277.6	82	1.4	16.3	2.6	0.2	5	13	65.0	3.7	134.2	7.7
IMA1852	Pulp	160	1.53	128	0.249	7.17	1.135	3.98	0.5	523.7	131	1.4	20.9	17.5	1.2	4	9	75.0	3.0	152.7	11.2
IMA1853	Pulp	153	1.08	44	0.240	7.53	0.537	4.44	0.6	259.7	84	1.2	15.0	1.9	0.1	4	19	75.0	3.8	147.0	7.3
IMA1854	Pulp	173	0.89	95	0.199	6.94	0.514	4.69	0.6	202.6	71	1.2	12.4	1.5	<0.1	2	17	71.3	2.4	153.6	5.8
IMA1855	Pulp	175	2.03	112	0.275	7.35	0.715	3.51	0.4	874.1	187	1.7	27.6	29.3	1.4	5	9	98.5	3.3	135.9	16.9
IMA1856	Pulp	188	1.48	50	0.229	6.49	0.632	2.85	0.6	620.8	132	1.3	21.3	13.5	0.8	5	12	78.5	4.2	119.9	12.8
IMA1857	Pulp	206	0.90	54	0.189	6.87	0.627	3.82	1.1	271.7	108	1.1	18.6	1.7	0.1	3	15	63.4	3.6	140.3	6.8
IMA1858	Pulp	118	0.81	255	0.615	7.99	2.886	4.50	2.7	543.8	102	3.8	37.9	24.3	1.3	6	17	52.3	2.8	175.4	12.0
IMA1859	Pulp	106	0.95	111	0.627	8.06	2.929	4.26	0.8	955.8	170	1.7	75.7	35.7	2.1	7	10	47.6	2.6	203.8	24.0
IMA1860	Pulp	138	0.90	253	0.581	7.37	1.813	2.94	2.8	758.0	130	5.0	106.1	30.1	1.8	8	9	43.8	1.3	131.1	17.9
IMA1861	Pulp	121	1.77	262	1.871	8.18	0.889	2.20	9.9	521.2	106	6.1	89.9	16.7	1.0	6	21	51.4	1.4	155.9	9.9
IMA1862	Pulp	110	4.70	254	0.931	7.79	1.542	0.94	1.0	36.9	26	2.7	36.2	2.4	0.2	<1	35	21.5	0.2	36.7	1.8
IMA1863	Pulp	165	3.52	268	0.784	8.06	1.360	1.68	1.9	124.4	51	1.9	29.7	3.1	0.2	2	29	49.0	1.7	72.2	3.8
IMA1864	Pulp	185	0.90	285	0.654	7.78	1.693	4.85	2.7	1006.0	177	4.5	119.6	43.5	2.5	8	9	46.2	2.4	154.6	26.3
IMA1865	Pulp	282	1.56	71	0.233	6.62	1.948	2.41	2.1	490.0	115	1.0	31.6	17.2	1.2	5	9	44.6	3.6	99.0	11.2
IMA1866	Pulp	206	1.10	65	0.208	6.90	2.068	3.34	1.4	274.6	96	0.8	15.3	4.0	0.3	6	14	63.6	3.9	176.3	6.7
IMA1867	Pulp	322	0.13	84	0.029	3.34	1.465	0.70	1.4	1433.0	74	0.3	48.6	1.2	0.1	6	2	12.2	1.5	22.9	86.2
IMA1868	Pulp	242	0.48	48	0.109	6.30	1.865	3.88	1.5	214.3	85	0.7	14.6	1.7	0.1	3	8	26.8	4.1	176.0	6.7

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.

BUREAU VERITAS MINERAL LABORATORIES Canada

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Bureau Veritas Commodities Canada Ltd.

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Client: **MacGregor, R.A.**
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given
Report Date: March 15, 2017

CERTIFICATE OF ANALYSIS

VAN17000385.1

	Method	MA200	MA200	MA200	MA200	MA200
	Analyte	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm
	MDL	0.05	0.005	1	0.5	0.5
IMA1839	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA1840	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA1841	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA1842	Pulp	0.07	0.006	<1	0.8	0.7
IMA1843	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA1844	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA1845	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA1846	Pulp	<0.05	<0.005	<1	<0.5	1.7
IMA1847	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA1848	Pulp	<0.05	<0.005	2	<0.5	0.9
IMA1849	Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA1850	Pulp	0.07	0.005	1	0.9	1.2
IMA1851	Pulp	0.08	0.018	3	<0.5	4.7
IMA1852	Pulp	<0.05	0.012	2	<0.5	5.3
IMA1853	Pulp	0.06	0.008	<1	<0.5	4.9
IMA1854	Pulp	0.08	0.006	<1	<0.5	4.9
IMA1855	Pulp	0.14	0.015	2	<0.5	6.0
IMA1856	Pulp	0.06	0.017	3	<0.5	4.1
IMA1857	Pulp	0.09	0.011	<1	<0.5	4.2
IMA1858	Pulp	0.19	0.017	3	<0.5	3.9
IMA1859	Pulp	0.12	0.018	3	<0.5	2.9
IMA1860	Pulp	0.18	0.006	<1	<0.5	1.7
IMA1861	Pulp	0.31	0.012	1	<0.5	2.2
IMA1862	Pulp	0.15	<0.005	<1	0.9	0.8
IMA1863	Pulp	0.09	0.010	2	0.5	1.3
IMA1864	Pulp	0.18	0.012	2	<0.5	2.5
IMA1865	Pulp	0.06	0.007	2	<0.5	4.4
IMA1866	Pulp	0.07	0.017	<1	<0.5	4.9
IMA1867	Pulp	<0.05	0.011	<1	<0.5	<0.5
IMA1868	Pulp	<0.05	0.010	3	<0.5	3.2

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28 Ford St.
Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given

Report Date: March 15, 2017

CERTIFICATE OF ANALYSIS VAN17000385.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001	0.1
IMA1869	Pulp	10.4	91.1	14.7	86	0.2	53.3	27.6	1005	6.93	<1	5.9	8.2	298	0.1	<0.1	0.4	147	2.96	0.071	32.8
IMA1870	Pulp	9.0	93.8	12.9	108	0.2	71.4	39.2	1469	8.51	2	4.3	7.4	287	0.1	<0.1	0.7	213	3.93	0.098	32.4
IMA1871	Pulp	17.1	339.0	18.5	33	0.4	98.4	48.6	500	9.06	<1	7.6	10.9	125	0.3	<0.1	1.3	223	0.42	0.077	44.6
IMA1872	Pulp	18.8	205.4	36.4	41	0.8	99.7	46.7	453	8.30	<1	6.3	10.9	207	0.1	<0.1	1.4	157	0.86	0.067	43.1
IMA1873	Pulp	20.3	143.0	31.9	372	0.4	40.7	17.4	269	4.68	<1	8.0	15.7	99	1.2	<0.1	0.6	65	0.33	0.055	58.6
IMA1874	Pulp	25.5	176.0	38.2	57	0.4	41.3	20.9	317	3.97	<1	16.9	71.6	171	0.6	<0.1	0.6	71	1.91	0.059	124.2
IMA1875	Pulp	18.8	479.5	197.3	731	0.7	85.6	53.3	485	7.01	1	9.7	11.4	175	2.3	<0.1	0.7	174	1.70	0.120	47.2
IMA1876	Pulp	24.8	40.5	3.9	72	0.4	179.4	45.0	977	5.71	90	0.8	4.4	554	0.2	0.5	0.2	114	5.52	0.112	45.6
IMA1877	Pulp	1.4	4.2	8.1	400	0.3	5.1	2.5	3754	9.15	1	10.3	23.2	204	1.4	<0.1	0.1	<1	3.73	0.044	74.4
IMA1878	Pulp	29.3	111.0	25.5	136	0.2	33.9	15.5	525	7.19	4	9.5	9.7	157	0.4	<0.1	0.5	196	1.46	0.108	37.6
IMA1879	Pulp	2.1	7.6	18.9	173	<0.1	43.9	19.3	1614	6.41	2	6.1	6.7	531	0.3	<0.1	0.1	43	3.62	0.047	20.7
IMA1880	Pulp	5.3	4.7	28.0	294	<0.1	79.7	52.9	1784	8.81	3	1.2	1.2	418	0.4	<0.1	0.3	236	7.16	0.083	11.7
IMA1881	Pulp	4.3	35.1	24.4	174	<0.1	42.5	47.5	1913	10.03	2	0.9	1.3	340	0.3	0.2	0.4	295	7.47	0.149	15.1
IMA1882	Pulp	1.0	3.0	14.9	9	<0.1	11.0	1.5	100	0.48	2	2.2	4.4	537	<0.1	<0.1	<0.1	6	1.01	0.006	12.4
IMA1883	Pulp	3.8	38.5	34.0	105	0.2	46.6	9.0	847	5.04	4	2.1	4.7	218	0.3	<0.1	0.2	178	2.83	0.173	18.7
IMA1884	Pulp	3.1	5.1	16.3	106	<0.1	38.6	21.6	1239	4.95	3	5.8	12.2	717	0.2	0.3	0.1	90	5.14	0.115	37.1
IMA1885	Pulp	3.4	5.2	23.5	183	<0.1	29.4	20.5	1407	4.97	4	4.7	6.7	780	0.2	0.7	0.3	96	8.83	0.092	45.3
IMA1886	Pulp	1.0	2.7	20.7	45	<0.1	13.5	6.6	750	1.63	2	10.9	34.5	391	0.3	0.4	0.1	27	2.22	0.024	8.9
IMA1887	Pulp	2.0	148.1	20.9	68	<0.1	16.4	12.4	713	3.57	2	4.6	13.1	830	<0.1	<0.1	0.1	66	2.93	0.111	33.7
IMA1888	Pulp	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
IAR 1888	Pulp	2.0	4.8	22.0	49	<0.1	3.6	10.4	890	11.82	2	1.8	5.4	146	0.1	<0.1	<0.1	68	1.51	0.397	40.7
IMA1889	Pulp	1.8	16.1	6.7	96	<0.1	9.4	11.6	1103	4.93	3	2.3	5.3	416	<0.1	0.1	<0.1	52	2.83	0.100	32.5
IMA1890	Pulp	6.8	18.0	21.4	56	0.2	7.1	2.0	1086	4.89	2	6.7	20.3	292	0.7	<0.1	0.1	13	0.89	0.027	33.0
IMA1891	Pulp	10.4	17.2	11.7	39	0.1	10.4	2.0	240	2.24	2	3.9	8.8	188	0.3	0.1	<0.1	12	0.84	0.027	21.1
IMA1892	Pulp	2.4	7.7	22.1	55	<0.1	11.1	5.2	247	5.22	1	6.4	11.0	386	<0.1	0.2	<0.1	47	0.70	0.032	27.3
IMA1893	Pulp	4.0	4.0	29.0	60	<0.1	6.6	11.8	851	10.71	<1	4.1	14.8	155	0.2	<0.1	<0.1	69	1.48	0.383	77.7
IMA1894	Pulp	1.0	5.1	25.1	40	<0.1	5.3	1.9	99	0.89	5	2.7	16.7	540	<0.1	0.2	<0.1	6	1.41	0.019	39.7
IMA1895	Pulp	2.3	8.7	13.1	42	<0.1	11.8	4.2	292	5.91	2	5.6	4.9	404	0.1	0.2	<0.1	82	1.33	0.030	10.2
IMA1896	Pulp	1.6	10.0	20.4	41	<0.1	9.0	3.6	250	3.58	4	5.0	4.4	588	<0.1	0.6	<0.1	43	1.99	0.070	10.5
IMA1897	Pulp	2.3	13.8	29.6	71	<0.1	8.5	6.2	377	3.92	2	8.4	29.8	399	0.3	<0.1	<0.1	25	1.47	0.071	57.6

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Client: **MacGregor, R.A.**
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given

Report Date: March 15, 2017

CERTIFICATE OF ANALYSIS VAN17000385.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf
	Unit	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	0.1
IMA1869	Pulp	182	1.75	56	0.571	7.30	1.331	2.37	1.4	433.7	80	2.4	45.8	16.7	1.0	4	16	55.7	1.9	107.0	12.1
IMA1870	Pulp	165	2.37	59	0.643	7.89	1.085	2.33	1.4	224.1	72	3.1	32.8	6.7	0.4	2	23	54.6	2.7	87.8	6.0
IMA1871	Pulp	202	1.32	26	0.282	7.43	0.202	3.02	0.4	304.9	107	1.3	19.1	3.8	0.3	3	17	113.9	6.0	98.0	7.9
IMA1872	Pulp	166	1.12	27	0.241	7.03	0.333	3.82	0.5	412.7	100	1.0	20.3	2.6	0.2	2	16	97.0	6.3	107.5	10.9
IMA1873	Pulp	156	0.78	66	0.163	5.89	0.831	3.27	0.6	726.9	135	1.0	20.4	4.6	0.3	3	7	92.8	2.7	87.8	18.7
IMA1874	Pulp	188	0.73	124	0.154	6.11	1.451	2.99	1.3	580.2	240	0.9	31.2	6.9	0.4	5	8	48.9	2.6	74.7	15.6
IMA1875	Pulp	150	1.36	41	0.422	8.13	1.601	5.52	1.7	332.0	104	2.0	27.0	8.3	0.5	3	20	75.2	3.5	131.2	8.9
IMA1876	Pulp	402	5.82	124	0.061	6.24	4.205	0.25	2.8	84.7	93	0.4	8.1	0.4	<0.1	<1	25	11.1	0.2	3.2	2.1
IMA1877	Pulp	72	1.46	77	0.462	6.44	4.706	0.76	0.4	1383.0	233	16.5	233.3	61.9	3.5	8	1	24.4	<0.1	33.6	32.4
IMA1878	Pulp	226	1.39	506	0.574	7.40	1.872	2.99	5.0	261.7	76	1.0	24.5	12.5	0.7	4	19	67.0	0.3	136.6	6.6
IMA1879	Pulp	253	1.43	1052	0.295	7.50	3.259	4.45	0.8	229.3	68	6.1	48.1	17.1	1.1	5	8	47.3	<0.1	182.7	6.0
IMA1880	Pulp	201	4.69	149	0.739	8.50	3.322	0.54	2.9	78.3	26	1.2	37.6	5.0	0.3	<1	36	54.1	<0.1	28.6	2.3
IMA1881	Pulp	81	3.16	355	1.272	8.57	2.896	0.78	9.1	33.7	34	1.8	47.0	5.4	0.3	<1	31	48.8	<0.1	36.0	1.8
IMA1882	Pulp	89	0.10	601	0.036	6.61	3.223	2.95	0.8	139.3	19	0.4	4.7	2.6	0.2	3	<1	23.9	<0.1	104.3	3.8
IMA1883	Pulp	783	1.17	277	0.598	7.73	2.583	2.48	1.6	202.8	39	4.1	31.8	12.4	0.6	3	24	44.9	0.4	121.6	3.6
IMA1884	Pulp	107	3.04	952	0.487	7.70	3.616	2.82	0.5	158.4	79	3.7	37.3	13.0	0.8	4	16	55.9	<0.1	94.6	4.8
IMA1885	Pulp	83	3.03	944	0.575	6.92	3.031	2.21	0.4	60.9	85	2.0	46.6	7.5	0.4	2	15	50.0	<0.1	69.9	2.3
IMA1886	Pulp	107	0.88	1300	0.129	7.55	2.050	5.60	0.5	213.4	24	1.0	15.9	5.1	0.3	2	4	24.8	<0.1	244.0	6.6
IMA1887	Pulp	105	0.83	1035	0.435	8.06	3.772	3.57	0.3	191.8	76	2.3	26.8	10.1	0.7	3	8	21.9	<0.1	112.7	5.2
IMA1888	Pulp	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
IAR 1888	Pulp	27	0.49	583	1.787	9.60	3.870	4.91	1.0	105.4	98	3.8	62.7	14.0	0.8	2	11	95.0	<0.1	193.2	2.4
IMA1889	Pulp	69	1.01	545	0.762	8.74	5.494	1.42	0.3	44.4	95	4.9	81.6	13.9	0.6	3	16	29.2	<0.1	43.3	1.7
IMA1890	Pulp	198	0.55	1151	0.264	6.24	1.143	4.90	0.5	880.4	38	1.4	52.2	25.1	0.9	3	4	24.7	0.2	272.3	22.5
IMA1891	Pulp	202	0.37	483	0.209	4.79	1.355	2.36	1.6	507.4	37	1.3	11.2	14.8	0.7	4	4	29.1	<0.1	119.1	12.2
IMA1892	Pulp	156	0.07	1344	0.314	7.38	2.359	6.13	0.8	29.6	61	5.7	40.1	32.5	2.5	3	<1	15.7	<0.1	303.0	1.0
IMA1893	Pulp	51	0.43	616	1.747	9.45	3.856	4.75	2.5	360.9	147	4.5	70.6	14.7	0.7	2	9	94.7	<0.1	179.9	10.3
IMA1894	Pulp	79	0.10	513	0.106	8.36	4.663	2.50	0.3	27.0	65	1.6	10.0	10.5	0.9	5	<1	32.9	<0.1	117.1	0.8
IMA1895	Pulp	215	0.07	272	0.198	6.51	3.493	1.17	0.3	59.2	28	3.4	16.9	15.2	1.1	5	<1	28.4	<0.1	55.0	1.9
IMA1896	Pulp	103	0.07	253	0.123	9.11	5.178	1.21	0.3	37.8	24	2.3	15.9	10.1	0.7	8	<1	32.8	<0.1	50.0	1.2
IMA1897	Pulp	158	0.30	567	0.281	7.01	3.325	2.72	0.9	409.7	107	4.6	32.0	17.9	1.0	5	1	32.6	<0.1	129.9	11.8

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Method		MA200	MA200	MA200	MA200	MA200
Analyte		In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm
MDL		0.05	0.005	1	0.5	0.5
IMA1869	Pulp	0.08	<0.005	1	<0.5	2.1
IMA1870	Pulp	0.07	0.006	2	<0.5	2.4
IMA1871	Pulp	<0.05	0.019	2	<0.5	3.7
IMA1872	Pulp	<0.05	0.016	1	<0.5	3.4
IMA1873	Pulp	<0.05	0.008	1	<0.5	2.8
IMA1874	Pulp	<0.05	0.011	2	<0.5	1.6
IMA1875	Pulp	0.06	0.008	4	<0.5	2.3
IMA1876	Pulp	<0.05	0.006	<1	2.0	<0.5
IMA1877	Pulp	0.30	<0.005	1	<0.5	<0.5
IMA1878	Pulp	<0.05	<0.005	2	<0.5	2.4
IMA1879	Pulp	0.13	<0.005	<1	<0.5	1.4
IMA1880	Pulp	0.08	<0.005	<1	1.1	<0.5
IMA1881	Pulp	0.12	<0.005	<1	1.0	0.5
IMA1882	Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA1883	Pulp	0.07	<0.005	<1	<0.5	2.3
IMA1884	Pulp	0.10	<0.005	<1	1.4	0.9
IMA1885	Pulp	0.06	<0.005	<1	2.4	0.9
IMA1886	Pulp	<0.05	<0.005	<1	<0.5	3.6
IMA1887	Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA1888	Pulp	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
IAR 1888	Pulp	0.14	<0.005	1	<0.5	2.0
IMA1889	Pulp	0.10	<0.005	1	<0.5	<0.5
IMA1890	Pulp	<0.05	<0.005	<1	<0.5	2.7
IMA1891	Pulp	<0.05	<0.005	<1	<0.5	1.2
IMA1892	Pulp	<0.05	<0.005	<1	<0.5	2.5
IMA1893	Pulp	0.12	<0.005	2	<0.5	2.2
IMA1894	Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA1895	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA1896	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA1897	Pulp	<0.05	<0.005	<1	<0.5	1.1

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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **MacGregor, R.A.**
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given
Report Date: March 15, 2017

QUALITY CONTROL REPORT VAN17000385.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001	0.1
Pulp Duplicates																					
IMA1853	Pulp	13.3	159.2	18.8	55	0.2	78.5	33.6	451	8.73	2	5.4	9.6	113	0.3	<0.1	0.9	153	0.24	0.056	36.6
REP IMA1853	QC	12.6	161.0	20.0	60	0.2	83.7	34.9	463	8.58	2	5.2	9.6	127	0.2	<0.1	0.9	152	0.25	0.054	39.4
IMA1883	Pulp	3.8	38.5	34.0	105	0.2	46.6	9.0	847	5.04	4	2.1	4.7	218	0.3	<0.1	0.2	178	2.83	0.173	18.7
REP IMA1883	QC	3.4	36.8	31.9	103	0.2	44.5	8.9	820	4.95	4	2.0	4.3	207	0.2	<0.1	0.2	171	2.81	0.176	18.7
IMA1919	Pulp	1.1	2.8	1.1	1	<0.1	5.4	1.0	26	0.30	<1	0.6	1.4	2	<0.1	<0.1	<0.1	2	<0.01	0.002	4.0
REP IMA1919	QC	1.0	2.8	1.0	1	<0.1	5.5	0.9	25	0.30	<1	0.6	1.5	2	<0.1	<0.1	<0.1	3	<0.01	0.002	4.1
IMA1955	Pulp	2.4	38.9	24.4	158	<0.1	35.6	45.5	1838	8.73	2	0.6	0.9	319	0.3	0.4	0.3	276	8.33	0.117	10.6
REP IMA1955	QC	2.8	40.1	24.9	164	<0.1	35.7	45.2	1881	8.93	2	0.6	0.9	324	0.2	0.5	0.3	283	8.54	0.121	10.8
IMA1986	Pulp	0.9	15.2	5.6	2	<0.1	8.0	2.0	59	0.48	3	2.3	7.5	13	<0.1	<0.1	0.1	9	0.11	0.002	12.1
REP IMA1986	QC	0.9	15.2	5.2	2	<0.1	7.4	2.0	57	0.48	3	2.0	7.2	13	<0.1	<0.1	0.1	8	0.10	0.003	11.7
Reference Materials																					
STD OREAS25A-4A	Standard	2.6	36.7	26.8	50	<0.1	47.3	8.3	511	6.91	11	3.2	16.6	52	0.2	0.6	0.4	159	0.32	0.052	23.9
STD OREAS25A-4A	Standard	2.7	38.8	26.5	47	<0.1	52.0	9.1	511	6.99	11	2.9	15.5	47	0.1	0.7	0.4	166	0.29	0.056	21.5
STD OREAS25A-4A	Standard	3.0	39.5	26.1	46	<0.1	49.7	8.8	495	6.76	10	3.0	15.7	48	0.1	0.7	0.4	172	0.30	0.052	22.2
STD OREAS25A-4A	Standard	2.3	35.4	25.5	47	<0.1	46.6	8.2	497	6.84	11	3.0	16.9	50	0.2	0.7	0.4	164	0.32	0.054	24.6
STD OREAS25A-4A	Standard	2.6	39.1	25.8	50	<0.1	48.6	8.6	536	6.79	10	2.9	15.8	52	<0.1	0.5	0.3	164	0.29	0.050	22.8
STD OREAS45E	Standard	2.4	815.1	21.6	53	0.4	472.4	62.9	597	25.64	19	2.9	15.2	19	0.1	1.1	0.3	345	0.07	0.034	13.0
STD OREAS45E	Standard	2.3	775.5	18.9	47	0.3	465.8	63.7	546	24.51	18	2.5	10.7	16	<0.1	1.1	0.3	337	0.06	0.032	6.7
STD OREAS45E	Standard	2.7	801.5	20.4	49	0.4	445.0	64.2	563	24.70	18	2.7	14.5	18	<0.1	1.2	0.3	335	0.07	0.031	12.0
STD OREAS45E	Standard	2.5	790.8	19.0	47	0.4	472.3	64.9	557	24.97	17	2.6	14.3	17	<0.1	1.1	0.3	340	0.07	0.033	12.9
STD OREAS45E	Standard	2.6	797.7	19.3	45	0.4	486.6	63.5	666	25.01	16	2.6	13.9	19	<0.1	1.1	0.3	330	0.08	0.035	12.0
STD OREAS25A-4A Expected		2.55	33.9	26.6	44.4		45.8	8.2	500	6.7	10.7	2.94	15.8	48.5		0.67	0.35	163	0.283	0.0495	21.8
STD OREAS45E Expected		2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065	0.034	11
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	<0.1
BLK	Blank	<0.1	0.4	<0.1	<1	<0.1	0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	<0.1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	<0.1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	<0.1
BLK	Blank	<0.1	0.5	<0.1	<1	<0.1	0.3	<0.2	2	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	0.1

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Client: **MacGregor, R.A.**
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given
Report Date: March 15, 2017

QUALITY CONTROL REPORT VAN17000385.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf
	Unit	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	0.1
Pulp Duplicates																					
IMA1853	Pulp	153	1.08	44	0.240	7.53	0.537	4.44	0.6	259.7	84	1.2	15.0	1.9	0.1	4	19	75.0	3.8	147.0	7.3
REP IMA1853	QC	155	1.09	56	0.245	7.36	0.544	4.53	0.7	261.4	91	1.3	15.2	2.0	0.1	2	20	71.4	3.8	156.0	7.3
IMA1883	Pulp	783	1.17	277	0.598	7.73	2.583	2.48	1.6	202.8	39	4.1	31.8	12.4	0.6	3	24	44.9	0.4	121.6	3.6
REP IMA1883	QC	752	1.14	265	0.608	7.60	2.553	2.39	1.4	192.3	38	3.9	31.0	11.7	0.6	3	23	42.4	0.4	116.1	3.4
IMA1919	Pulp	145	<0.01	6	0.004	0.27	0.076	0.09	<0.1	18.8	8	0.2	0.6	0.3	<0.1	<1	<1	0.1	<0.1	2.9	0.5
REP IMA1919	QC	152	<0.01	7	0.004	0.28	0.079	0.10	<0.1	17.0	8	0.2	0.5	0.3	<0.1	<1	<1	0.2	<0.1	2.9	0.5
IMA1955	Pulp	55	2.95	329	0.956	9.04	2.425	0.71	7.3	24.7	26	1.4	36.5	3.9	0.2	<1	26	40.7	<0.1	31.6	1.3
REP IMA1955	QC	62	3.04	344	0.972	9.35	2.516	0.73	7.8	25.6	26	1.3	36.7	4.1	0.3	<1	27	42.5	<0.1	31.8	1.3
IMA1986	Pulp	177	0.08	438	0.021	1.88	0.033	2.27	0.4	45.1	21	0.5	1.9	1.2	0.1	<1	<1	1.4	<0.1	81.9	1.4
REP IMA1986	QC	185	0.08	412	0.021	1.88	0.032	2.26	0.3	39.1	21	0.5	1.8	1.2	0.1	<1	<1	1.5	<0.1	79.4	1.1
Reference Materials																					
STD OREAS25A-4A	Standard	124	0.35	166	0.956	9.44	0.141	0.50	2.0	161.6	52	4.6	11.5	21.4	1.5	<1	14	37.6	<0.1	66.5	4.3
STD OREAS25A-4A	Standard	137	0.37	163	1.032	9.24	0.151	0.54	2.0	156.2	49	4.8	10.9	21.5	1.5	1	13	39.6	<0.1	59.5	4.2
STD OREAS25A-4A	Standard	127	0.38	158	0.950	9.23	0.148	0.53	2.0	157.2	49	4.7	11.2	21.2	1.5	<1	14	41.2	<0.1	61.1	4.5
STD OREAS25A-4A	Standard	117	0.37	163	1.000	9.36	0.141	0.52	2.2	164.8	55	4.5	12.6	23.1	1.5	1	14	40.3	<0.1	67.0	4.4
STD OREAS25A-4A	Standard	131	0.35	160	0.990	9.35	0.147	0.49	2.0	165.0	51	4.0	10.8	20.3	1.6	<1	13	42.5	<0.1	62.1	4.9
STD OREAS45E	Standard	1069	0.17	258	0.562	7.17	0.053	0.35	1.2	106.3	29	1.7	9.4	7.0	0.6	<1	99	6.5	<0.1	25.2	3.1
STD OREAS45E	Standard	1050	0.15	254	0.558	6.44	0.053	0.33	0.9	97.7	18	1.5	6.1	6.4	0.5	<1	84	6.1	<0.1	17.7	3.0
STD OREAS45E	Standard	1042	0.15	287	0.550	7.07	0.050	0.32	1.0	105.5	26	1.7	8.8	7.0	0.6	<1	96	5.6	<0.1	23.1	3.1
STD OREAS45E	Standard	996	0.16	268	0.559	6.96	0.053	0.33	1.0	96.4	28	1.4	9.0	6.4	0.5	<1	92	6.1	<0.1	22.7	3.1
STD OREAS45E	Standard	1043	0.17	276	0.551	6.97	0.063	0.35	1.1	103.1	27	1.4	8.7	6.5	0.6	<1	96	6.9	<0.1	22.6	3.2
STD OREAS25A-4A Expected		120	0.327	151	0.977	8.87	0.134	0.5	2	155	48.9	4.2	10.5	20.9	1.5	0.93	13.7	36.7	0.047	61	4.28
STD OREAS45E Expected		979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046	21.2	3.11
BLK	Blank	1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1
BLK	Blank	2	<0.01	3	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1
BLK	Blank	1	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1
BLK	Blank	1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1
BLK	Blank	1	<0.01	<1	<0.001	<0.01	0.005	0.01	<0.1	0.7	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	0.2	<0.1

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Client: **MacGregor, R.A.**
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given
Report Date: March 15, 2017

QUALITY CONTROL REPORT

VAN17000385.1

	Method	MA200	MA200	MA200	MA200	MA200
	Analyte	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm
	MDL	0.05	0.005	1	0.5	0.5
Pulp Duplicates						
IMA1853	Pulp	0.06	0.008	<1	<0.5	4.9
REP IMA1853	QC	0.07	0.011	1	<0.5	4.7
IMA1883	Pulp	0.07	<0.005	<1	<0.5	2.3
REP IMA1883	QC	0.05	<0.005	<1	<0.5	2.1
IMA1919	Pulp	<0.05	<0.005	<1	<0.5	<0.5
REP IMA1919	QC	<0.05	<0.005	<1	<0.5	<0.5
IMA1955	Pulp	0.10	<0.005	<1	0.8	0.5
REP IMA1955	QC	0.12	<0.005	<1	0.9	0.6
IMA1986	Pulp	<0.05	<0.005	<1	<0.5	<0.5
REP IMA1986	QC	<0.05	<0.005	<1	<0.5	<0.5
Reference Materials						
STD OREAS25A-4A	Standard	0.15	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	0.10	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	0.09	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	0.08	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	0.09	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	0.13	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	0.08	<0.005	1	<0.5	<0.5
STD OREAS45E	Standard	0.12	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	0.12	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	0.10	<0.005	2	<0.5	<0.5
STD OREAS25A-4A Expected		0.09		2.5		0.35
STD OREAS45E Expected		0.099		2.97	0.1	0.09
BLK	Blank	<0.05	<0.005	2	<0.5	<0.5
BLK	Blank	<0.05	<0.005	2	<0.5	<0.5
BLK	Blank	<0.05	<0.005	2	<0.5	<0.5
BLK	Blank	<0.05	<0.005	2	<0.5	<0.5
BLK	Blank	<0.05	<0.005	1	<0.5	<0.5

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Submitted By: R.A. MacGregor
Receiving Lab: Canada-Vancouver
Received: March 06, 2017
Report Date: March 21, 2017
Page: 1 of 3

CERTIFICATE OF ANALYSIS VAN17000375.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 48

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SLBHP	48	Sorting, labeling and boxing samples received as pulps			VAN
AQ251	48	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
DRPLP	48	Warehouse handling / disposition of pulps			VAN

ADDITIONAL COMMENTS

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

Invoice To: MacGregor, R.A.
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4
Canada

CC:

JEFFREY CANNON
Geochemistry Department Supervisor

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. Bureau Veritas 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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Client: **MacGregor, R.A.**
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Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given
Report Date: March 21, 2017

CERTIFICATE OF ANALYSIS VAN17000375.1

	Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
	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
1AX 468	Pulp	0.33	9.84	9.15	98.0	372	16.0	4.4	75	1.47	2.1	0.4	2.9	3.5	7.8	0.15	0.04	0.10	21	0.10	0.019
1AX 469	Pulp	0.92	143.27	9.33	59.0	1417	97.4	27.3	767	4.19	42.2	0.9	5972.7	4.3	242.1	0.06	0.09	0.14	89	3.57	0.165
1AX 470	Pulp	0.73	101.27	7.09	48.8	170	59.1	25.6	614	3.39	39.4	0.7	121.1	3.6	194.6	0.08	0.09	0.09	80	3.10	0.138
1AX 471	Pulp	0.58	54.97	13.91	65.8	159	37.0	13.2	478	2.23	17.5	0.9	202.5	6.5	171.1	0.26	0.09	0.12	46	2.91	0.118
1AX 472	Pulp	0.90	39.51	37.90	28.3	198	37.1	13.3	445	2.06	17.7	0.8	289.4	5.0	172.2	0.05	0.12	0.24	40	2.67	0.102
1AX 473	Pulp	0.84	44.07	4.86	39.5	40	96.8	22.3	849	3.19	28.9	0.8	37.3	4.4	221.9	0.07	0.07	0.05	65	3.89	0.090
1AX 474	Pulp	0.95	18.68	4.02	4.2	80	15.6	8.8	25	0.54	3.5	2.6	0.7	7.0	2.7	0.02	0.08	0.22	2	0.03	0.010
1AX 475	Pulp	2.17	77.31	87.50	125.9	228	19.4	13.2	105	2.44	1.8	48.7	1.8	121.0	4.5	0.57	0.05	1.01	6	0.06	0.028
1AX 476	Pulp	1.11	55.82	10.23	19.7	37	21.1	7.0	185	1.64	3.2	3.4	5.2	9.7	3.1	0.09	0.03	0.22	3	0.07	0.010
1AX 477	Pulp	2.03	53.96	3.11	14.2	41	56.3	24.4	333	3.60	11.5	4.3	0.9	14.5	4.7	0.02	0.03	0.27	8	0.09	0.033
1AX 478	Pulp	1.78	2.75	15.54	1.0	21	5.9	1.2	18	0.16	1.7	8.8	0.6	38.8	2.2	<0.01	<0.02	0.10	<2	0.03	0.011
1AX 479	Pulp	0.73	15.75	2.67	78.8	847	1044.1	89.1	1429	5.88	794.2	<0.1	122.0	0.2	366.7	0.08	1.84	0.08	137	6.04	0.007
1AX 480	Pulp	1.83	38.27	114.85	186.6	223	70.7	17.9	227	3.88	41.9	2.9	2.8	9.5	8.3	0.96	0.09	0.60	19	0.14	0.040
1AX 481	Pulp	1.96	70.86	11.36	30.0	99	70.8	20.1	152	3.17	36.5	3.4	3.5	11.5	5.8	0.03	0.07	0.65	14	0.09	0.040
1AX 482	Pulp	1.84	65.12	45.34	32.1	90	27.8	7.5	130	2.78	36.2	2.9	2.0	10.5	5.3	0.07	0.05	0.79	14	0.09	0.040
1AX 483	Pulp	0.82	14.59	2.65	1.4	13	7.5	2.2	53	0.41	3.2	1.9	1.3	7.1	2.1	<0.01	0.03	0.18	3	0.10	0.003
1AX 484	Pulp	1.49	8.87	3.24	1.5	20	7.0	2.2	71	0.65	2.0	6.4	1.4	30.5	3.3	0.02	0.03	0.14	2	0.29	0.004
1AX 485	Pulp	2.47	9.63	4.63	1.1	48	5.6	2.2	40	0.45	2.3	21.9	4.5	136.4	3.9	0.01	0.04	0.14	<2	0.12	0.010
1AX 486	Pulp	2.28	23.42	1.74	24.9	21	16.0	8.6	281	1.74	1.3	2.2	0.6	2.4	173.2	0.04	0.12	0.12	40	1.92	0.097
1AX 487	Pulp	1.60	141.94	435.81	430.1	430	101.2	32.8	188	2.97	40.3	3.3	11.2	10.8	7.2	2.60	0.06	1.14	11	0.25	0.041
1AX 488	Pulp	2.02	120.10	674.19	811.7	246	96.5	39.6	229	3.82	30.1	4.6	4.3	12.9	7.8	4.79	0.09	0.41	21	0.17	0.042
1AX 489	Pulp	2.41	217.42	12.19	35.6	215	108.3	42.7	243	5.07	10.7	2.8	11.9	7.3	4.9	0.03	0.05	1.01	21	0.12	0.059
1AX 490	Pulp	27.75	105.51	10.27	97.6	262	143.4	57.3	1719	7.17	160.6	1.3	18.2	0.8	102.8	0.19	0.46	0.32	50	4.92	0.029
1AX 491	Pulp	103.22	8.64	12.52	46.7	92	14.6	12.2	1281	2.23	1.9	4.9	10.5	7.1	172.4	0.36	0.29	0.46	8	2.74	0.087
1AX 492	Pulp	0.44	2.84	2.01	28.1	16	23.3	7.9	87	1.83	3.9	1.2	5.8	5.8	27.8	0.02	0.21	0.04	27	0.26	0.076
1AX 493	Pulp	11.16	4.00	5.30	35.5	10	16.1	8.5	487	1.94	3.2	1.2	0.6	5.5	158.7	0.05	0.28	0.03	13	2.65	0.073
1AX 494	Pulp	4.00	3.44	6.45	53.0	8	21.8	12.5	589	2.33	1.2	0.9	0.5	5.2	181.6	0.06	0.24	0.05	15	3.23	0.077
1AX 495	Pulp	0.28	5.40	5.98	40.7	133	15.1	5.4	76	1.23	0.9	0.4	1.3	3.1	8.9	0.06	0.03	0.08	22	0.11	0.015
1AX 496	Pulp	0.65	3.06	1.79	27.4	14	22.1	8.5	92	1.80	2.1	1.2	1.4	5.5	23.9	0.01	0.20	0.03	28	0.20	0.071
1AX 497	Pulp	6.80	12.50	4.12	12.2	17	17.8	13.4	161	1.07	8.1	1.5	6.4	5.7	53.2	0.05	0.52	0.15	9	1.13	0.104

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Project: None Given
Report Date: March 21, 2017

CERTIFICATE OF ANALYSIS VAN17000375.1

	Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
	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
1AX 468	Pulp	10.3	27.1	0.16	25.3	0.072	2	1.49	0.006	0.02	<0.1	1.8	0.05	<0.02	49	<0.1	0.03	3.7
1AX 469	Pulp	25.8	331.1	3.59	91.5	0.005	5	2.21	0.082	0.19	0.2	14.6	<0.02	0.24	122	<0.1	0.05	9.0
1AX 470	Pulp	24.6	312.7	2.38	85.7	0.004	4	1.37	0.086	0.27	0.2	12.7	<0.02	0.12	59	<0.1	0.02	6.9
1AX 471	Pulp	42.5	131.5	1.50	68.8	0.003	4	0.84	0.097	0.19	0.3	7.7	<0.02	0.08	110	<0.1	0.03	3.9
1AX 472	Pulp	32.5	127.4	1.31	62.6	0.002	3	0.69	0.079	0.17	0.3	6.5	<0.02	0.15	72	<0.1	0.03	3.5
1AX 473	Pulp	28.2	291.1	2.34	111.1	0.002	4	1.17	0.089	0.33	0.7	11.1	<0.02	0.06	73	<0.1	0.03	4.7
1AX 474	Pulp	10.7	115.5	0.09	27.2	0.002	1	0.33	0.006	0.22	<0.1	0.4	0.13	0.18	<5	<0.1	<0.02	0.9
1AX 475	Pulp	70.7	107.5	0.37	37.6	0.021	2	1.09	0.030	0.29	<0.1	1.2	0.16	0.29	<5	0.7	0.31	3.3
1AX 476	Pulp	12.5	129.0	0.47	7.0	<0.001	<1	0.21	0.046	0.07	<0.1	1.0	0.03	0.08	<5	<0.1	0.04	0.6
1AX 477	Pulp	21.0	42.6	1.24	22.0	0.001	2	0.83	0.021	0.24	<0.1	2.0	0.07	0.18	<5	<0.1	0.07	2.3
1AX 478	Pulp	37.8	136.7	0.02	23.8	0.002	3	0.30	0.004	0.23	<0.1	0.3	0.06	<0.02	<5	<0.1	<0.02	1.0
1AX 479	Pulp	1.9	1831.8	11.46	3.4	0.003	<1	2.37	0.008	<0.01	0.1	21.4	<0.02	<0.02	7	<0.1	0.50	8.4
1AX 480	Pulp	18.3	98.2	1.02	30.0	0.005	2	1.95	0.006	0.29	<0.1	2.2	0.16	0.08	<5	<0.1	0.21	4.9
1AX 481	Pulp	18.8	56.3	0.61	37.6	0.010	1	1.58	0.004	0.38	<0.1	2.1	0.20	0.34	<5	0.9	0.21	3.9
1AX 482	Pulp	21.3	47.9	0.50	37.8	0.009	2	1.41	0.004	0.40	<0.1	2.0	0.19	0.22	<5	0.6	0.20	3.3
1AX 483	Pulp	11.5	279.7	0.05	24.4	0.002	<1	0.16	0.003	0.14	<0.1	0.3	0.04	<0.02	<5	<0.1	<0.02	0.6
1AX 484	Pulp	36.4	178.9	0.13	31.7	0.002	<1	0.26	0.003	0.19	0.1	0.4	0.05	<0.02	<5	<0.1	<0.02	0.8
1AX 485	Pulp	108.2	144.4	0.05	45.6	0.004	<1	0.26	0.004	0.25	<0.1	0.6	0.06	0.03	<5	<0.1	<0.02	1.0
1AX 486	Pulp	22.8	58.2	1.02	41.0	0.263	13	0.98	0.249	0.32	0.4	4.4	0.18	0.28	<5	<0.1	0.02	3.9
1AX 487	Pulp	13.8	45.5	0.91	20.4	0.002	2	1.51	0.004	0.21	<0.1	1.6	0.23	0.64	<5	1.7	0.27	3.3
1AX 488	Pulp	15.0	119.9	1.23	25.7	0.003	3	2.15	0.017	0.32	<0.1	2.4	0.18	0.80	<5	1.0	0.07	5.5
1AX 489	Pulp	10.1	58.7	0.84	34.9	0.011	2	2.06	0.003	0.36	<0.1	2.6	0.14	1.18	<5	2.9	0.59	4.8
1AX 490	Pulp	2.0	63.1	1.82	62.6	0.003	4	1.76	0.020	0.47	<0.1	7.8	0.12	1.30	110	0.3	0.05	3.6
1AX 491	Pulp	32.4	41.0	0.95	186.6	0.002	4	0.55	0.042	0.34	<0.1	3.8	0.09	0.76	61	<0.1	0.12	1.9
1AX 492	Pulp	36.9	97.3	1.09	141.5	0.005	2	1.27	0.108	0.15	<0.1	2.9	0.04	0.10	36	<0.1	0.05	6.0
1AX 493	Pulp	31.7	50.5	1.03	452.6	0.003	3	0.63	0.090	0.21	<0.1	3.9	0.05	0.03	11	<0.1	<0.02	2.5
1AX 494	Pulp	31.9	42.2	1.36	498.1	0.002	1	0.66	0.068	0.17	<0.1	4.1	0.04	0.02	8	<0.1	<0.02	2.8
1AX 495	Pulp	11.1	26.4	0.15	32.2	0.081	1	1.53	0.006	0.03	<0.1	2.0	0.05	<0.02	30	<0.1	<0.02	4.4
1AX 496	Pulp	34.9	82.8	1.15	121.4	0.003	3	1.37	0.119	0.17	<0.1	3.3	0.03	0.11	68	<0.1	0.04	6.8
1AX 497	Pulp	29.7	56.1	0.37	187.4	0.001	6	1.12	0.036	0.42	<0.1	1.8	0.08	0.34	106	<0.1	0.12	3.1

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Project: None Given
Report Date: March 21, 2017

QUALITY CONTROL REPORT VAN17000375.1

	Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
	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																					
1AX 496	Pulp	0.65	3.06	1.79	27.4	14	22.1	8.5	92	1.80	2.1	1.2	1.4	5.5	23.9	0.01	0.20	0.03	28	0.20	0.071
REP 1AX 496	QC	0.66	3.14	1.82	27.5	12	22.4	8.3	91	1.81	2.2	1.2	1.1	5.5	24.1	0.01	0.20	0.03	29	0.20	0.071
1AX 513	Pulp	2.65	3.88	3.18	58.2	10	24.3	12.5	516	2.27	1.7	1.4	0.4	5.9	97.6	0.06	0.43	0.04	23	3.16	0.084
REP 1AX 513	QC	2.57	4.10	3.08	56.7	11	25.5	12.5	511	2.29	1.7	1.4	0.9	5.7	97.5	0.05	0.42	0.04	23	3.15	0.084
Reference Materials																					
STD DS10	Standard	15.74	155.22	150.19	356.9	1886	74.7	13.5	876	2.74	49.4	2.8	89.7	7.8	70.1	2.83	8.58	12.53	45	1.10	0.075
STD DS10	Standard	15.75	155.86	150.10	355.9	1958	72.7	14.4	862	2.86	46.1	2.8	76.8	8.1	67.9	2.77	8.27	12.64	43	1.10	0.074
STD OXC129	Standard	1.35	29.23	6.33	42.4	13	77.7	20.5	410	2.99	0.8	0.7	197.3	1.8	192.7	0.05	0.03	<0.02	52	0.70	0.102
STD OXC129	Standard	1.33	30.49	6.68	41.9	10	84.0	23.4	401	3.23	0.8	0.8	196.3	2.0	205.5	0.04	0.03	<0.02	52	0.74	0.102
STD DS10 Expected		15.1	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	91.9	7.5	67.1	2.62	9	11.65	43	1.0625	0.0765
STD OXC129 Expected		1.3	28	6.3	42.9	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665	0.102
BLK	Blank	<0.01	0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.2	<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	<2	<0.1	<0.1	<1	<0.01	0.3	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001

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Sault Ste. Marie Ontario P6A 4N4 Canada

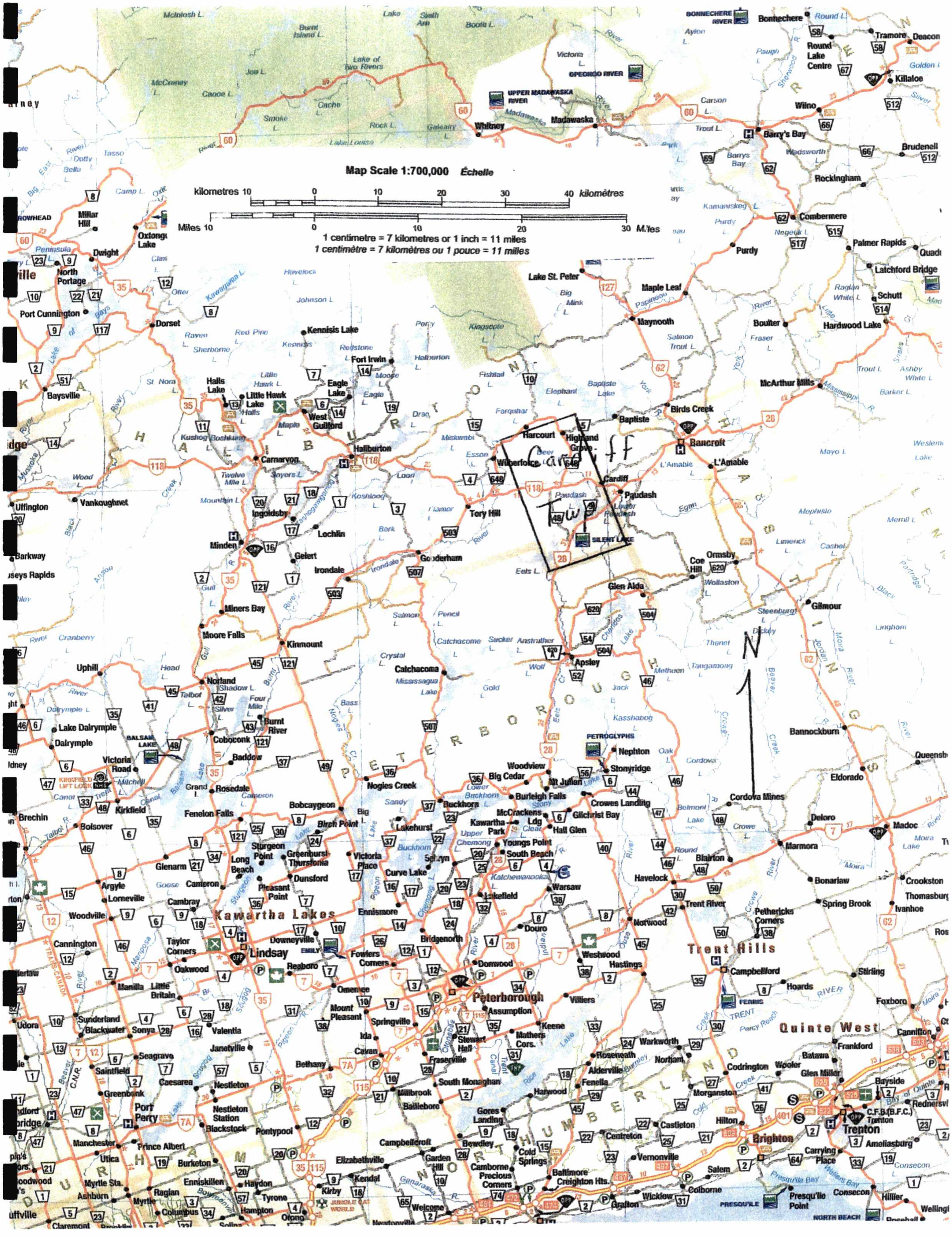
Project: None Given
Report Date: March 21, 2017

QUALITY CONTROL REPORT VAN17000375.1

	Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
	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																		
1AX 496	Pulp	34.9	82.8	1.15	121.4	0.003	3	1.37	0.119	0.17	<0.1	3.3	0.03	0.11	68	<0.1	0.04	6.8
REP 1AX 496	QC	34.2	89.6	1.16	118.1	0.003	3	1.37	0.116	0.17	<0.1	3.1	0.03	0.11	72	<0.1	0.04	6.5
1AX 513	Pulp	41.4	48.5	0.96	108.4	0.007	3	1.37	0.084	0.22	<0.1	3.4	0.05	<0.02	24	<0.1	<0.02	6.4
REP 1AX 513	QC	38.9	49.5	0.97	110.7	0.007	1	1.37	0.088	0.23	<0.1	3.6	0.06	<0.02	27	<0.1	<0.02	6.3
Reference Materials																		
STD DS10	Standard	19.1	57.8	0.81	343.2	0.087	6	1.08	0.073	0.34	3.2	3.2	5.19	0.28	266	2.2	4.94	4.6
STD DS10	Standard	19.0	59.4	0.81	352.1	0.092	5	1.12	0.073	0.35	3.4	3.3	5.07	0.27	289	2.2	4.96	4.5
STD OXC129	Standard	12.6	55.2	1.55	53.5	0.400	<1	1.56	0.596	0.36	<0.1	1.1	0.04	<0.02	<5	<0.1	<0.02	5.5
STD OXC129	Standard	13.4	57.1	1.65	52.0	0.436	<1	1.67	0.608	0.37	<0.1	1.4	0.03	<0.02	<5	<0.1	<0.02	5.7
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0259	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03					5.6
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

Appendix III

Location Plans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kilometres 10 0 10 20 30 40 kilomètres
Miles 10 0 10 20 30 Miles
1 centimetre = 7 kilometres or 1 inch = 11 miles
1 centimètre = 7 kilomètres ou 1 pouce = 11 milles
Cardiff Twp
N
Whitney
Madawaska
Barry's Bay
Combermere
Maynooth
Bancroft
L'Amable
Baptiste
Harcourt
Highland Grove
Wilberforce
Cardiff
Paudash
Lower Paudash
Silent Lake
Tory Hill
Gooderham
Haliburton
Carnarvon
Minden
Dorset
Kennisis Lake
Fort Irwin
Eagle Lake
West Guilford
Kinmount
Apsley
Glen Alda
Coe Hill
Ormsby
Wollaston
Gilmour
Bannockburn
Marmora
Madoc
Havelock
Norwood
Campbellford
Trent Hills
Peterborough
Lakefield
Buckhorn
Bobcaygeon
Fenelon Falls
Lindsay
Kawartha Lakes
Port Perry
Cobourg
Brighton
Trenton
Quinte West
Colborne
Presqu'ile Point
Bracebridge
Dwight
Baysville
Uffington
Norland
Coboconk
Burnt River
Petroglyphs
Stoney Lake
Nephton
Woodview
Burleigh Falls
Warsaw
Hastings
Keene
Millbrook
Fraserville
Bethany
Omemee
Grafton
Baltimore
Cold Springs
Castleton
Warkworth
Frankford
Stirling
Eldorado
Deloro
Cordova Mines
Spring Brook
Bonarlaw
Crookston
Peterborough
Haliburton
Hastings
Northumberland
Durham

Ontario

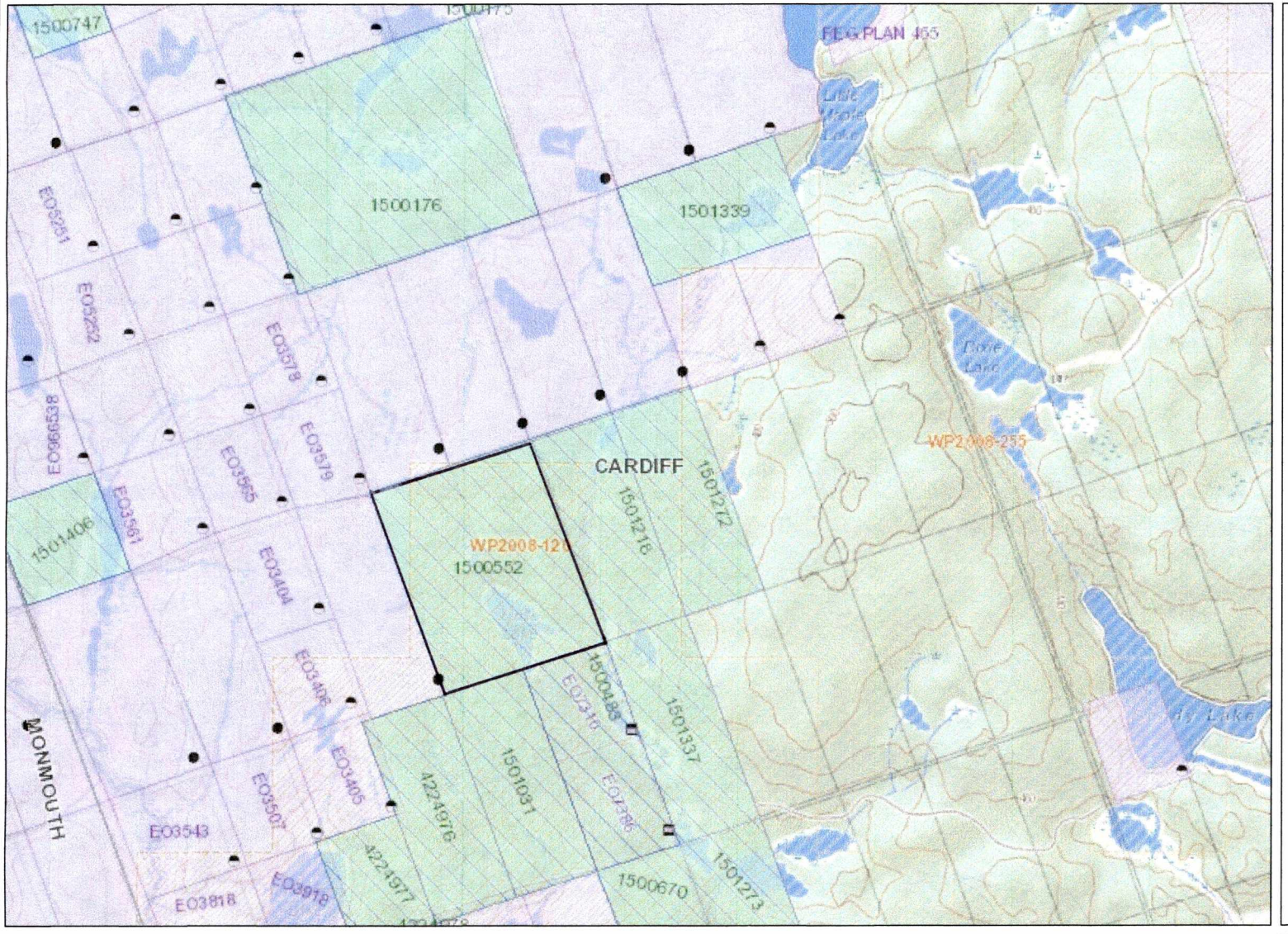
MINISTRY OF NORTHERN DEVELOPMENT AND MINES

CLAIMaps

Enter map title

Notes:

Enter map notes



Legend

Administration Boundaries
- Mining Divisions
- Resident Geologist District
- Townships and Areas
- UTM Grid
- Geographic Lot Fabric
- Other Federal Land

Mineral Tenure Grid
- OMTG Tenure Grid

Alienations
- Withdrawal
- Notice

Unpatented Claim
- Active
- Reconciled
- Pending

Disposition
- Disposition

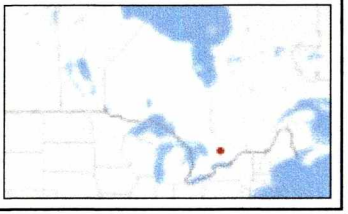
Disposition Symbols
- Camp
- Disposition Unknown/Pending
- Freehold Patent Mining Rights Only
- Freehold Patent Surface Rights Only
- Freehold Patent Surface and Mining Rights
- Land Use Permit
- Leasehold Patent Mining Rights Only
- Leasehold Patent Surface Rights Only
- Leasehold Patent Surface and Mining Rights
- License of Occupation Mining Use Only
- License of Occupation Surface Use Only
- License of Occupation Surface and Mining Rights
- License of Occupation Uses Not Specified
- Order in Council
- Tower
- WPLA

Geology Layers
- AMIS Sites
- AMIS Features
- Drill Holes
- Mineral Occurrences

0 1.44 km

Projection: Web Mercator

N



Appendix IV

Receipts

Appendix V

Drill Logs

Ontario

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

Drill Log
Journal de forage

Page 1 of / de 2

Under section 8 of *the Mining Act*, this information is used to maintain a public record. / Aux termes de l'article 8 de la *Loi sur les mines*, ces renseignements serviront à tenir à jour les dossiers publics.

Hole ID / Forage n°	Claim No. / N° de concession minière	Township/Area / Canton/
~~H-1~~ H-1	4201590	CARDIFF

Name of Land Holder / No, de	Azimuth	Dip / Inclinaison	End of Hole (m) / fin de forage (m)	Overburden Depth / profondeur des morts-terrains
TOM BARR	045	-45	170	3m

Drilling Company / Compagnie de forage	Logged by (print) / Inscrit par (écrire en lettres moulées)	Core Size / Dimensions de la carotte	Collar Elevation / Elévation du collier
DT/LEVERT	T. BEESLEY	BTW	n.a.

Date Hole Started (yyyy/mm/dd) / Date de commencement du forage (aaaa/mm/jj)	Date Completed (yyyy/mm/dd) / Date d'achèvement (aaaa/mm/jj)	Date Logged (yyyy/mm/dd) / Date d'inscription au journal (aaaa/mm/jj)	Location of Core Storage / Endroit où la carotte est stockée
2007/03/~~19~~	2007/0~~4~~ /~~05~~ 20	2007/0~~3~~ /~~08~~ 20	

DRILL HOLE COLLAR LOCATION CO-ORDINATES / COORDONNÉES DU COLLIER DE TROU DE FORAGE

UTM / MTU

Datum: ☐ NAD 27 ☑ NAD 83

Zone: ☐ 15 ☐ 16 ☐ 17 ☑ 18 ☐

Northing / Ordonnée: ~~4990160~~ 4990956

Easting / Abscisse: ~~72+960~~ 721916

Latitude / Longitude
degrees/minutes/seconds or decimal values
degrés/minutes/secondes ou valeurs décimales

Datum: ☐ NAD 27 ☐ NAD 83

Latitude:

Longitude:

Footage/Avancement From/De	Footage/Avancement To/À	Rock type \ type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.) / Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Planar Feature Angle * / Angle des caractéristiques planes	Core Speciman Footage / Longueur en pieds des carottes prélevées	Your Sample No./ N° d'échantillon du prospecteur	Sample Footage/ Niveau de prélèvement de l'échantillon (en pieds) From/De	Sample Footage/ Niveau de prélèvement de l'échantillon (en pieds) To/À	Sample Length/ Longueur de l'échantillon	Assays/ Analyses minéralurgiques		
3.0	8.92	AMPH.	DK GN, XRSE AMPHIBOLITE	30°								
8.92	12.41	AMPH.	F.G. SALT + PEPPER TEXTURE	50°								
12.41	16.94	AMPH.	DK GN, XRSE									
16.94	19.58	PEG.	PINK, CHLORITE PATCHES; FRACTURES 30-45	50								
19.58	29.63	AMPH.	F.G. SALT+PEPPER; IRREG. CALCITE									
29.63	38.00	GAR. PNG.	F.G. MS, GARNET BLASTS TO 1cm; PARAGNEISS	35								
38.00	47.15	AMPH.	F.G. SALT & PEPPER	70								
47.15	50.24	GREYBX.	COARSE BRONZY SCHIST; 5% PYRRHOTITE-GREYWKE									
50.24	70.25	AMPH.	F TO M.G. GREY SALT+PEPPER	70								
70.25	86.00	GREYX.	AS ABOVE 47.15-50.24	70								
86.00	87.10	PEG	GREY, CHLORITE CLOTS, BIOT FLAKES; 3-5% PYRRHOTITE	(Po)	86.50	8001	86.00	87.10	1.10 m	<.01	.06	

*For features such as foliation, bedding, schistosity, measured from the long axis of the core. / *Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

"Mining Lands Website: http://www.mndm.gov.on.ca/mndm/mines/lands/default_e.asp"
"Site Web de la Section des terrains miniers : http://www.mndm.gov.on.ca/mndm/mines/lands/default_f.asp"

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Ministry of Northern Development and Mines / Ministère du Développement du Nord et des Mines

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Drill Log

Journal de forage

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Footage/Avancement From/De	Footage/Avancement To/À	Rock type/ type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.)/ Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Planar Feature Angle */ Angle des caractéristiques planes	Core Speciman Footage/ Longueur en pieds des carottes prélevées	Your Sample No./ N° d'échantillon du prospecteur	Sample Footage/ Niveau de prélèvement de l'échantillon (en pieds) From/De	Sample Footage/ Niveau de prélèvement de l'échantillon (en pieds) To/À	Sample Length/ Longueur de l'échantillon m	Assays/ Analyses minéralurgiques Au g/t	Assays/ Analyses minéralurgiques Antim %	Assays/ Analyses minéralurgiques
37.10	91.70	GREY W.	AS ABOVE 70.25-86.00									
91.70	99.25	GAR. PNG.	AS ABOVE 29.63-38.00	60								
99.25	101.45	GNEISS	GREEN, M.G. ; GRANITE MICA.	70								
101.45	101.69	PEG	GREEN, BLACK BIOTITE	80	161.58	8002	101.45	101.69	0.24m	0.04	0.08	
101.69	143.00	GNEISS	GREEN ; AS ABOVE) 99.25-101.45 M.G. MICA	40/80								
			107.2-109.80 PHLOGOPITE IN ROOTLESS FOLDS									
			114.43-114.56, 116.3-116.47 BLUE PEG.	50								
			126.36 : TALC-COATED FRACTURE	45								
143.00	170.00	GNEISS	BRONZE F. TO M.G. MICA	65								
			PEGMATITE, TRACE Po		161.20	8008	161.00	161.51	0.51	0.01	<0.01	
			GRAPHIC PEGMATITE		161.81	8003	161.72	161.95	0.23	0.02	0.01	
			BIOTITE-QUARTZ PEG	80	163.71	8004	163.50	164.41	0.91	<0.01	<0.01	
			QTZ-BIO-Po PEG		164.63	8005	164.41	164.75	0.34	<0.01	<0.01	
			BLACK QTZ-BIO PEG	80	166.24	8006	165.99	166.50	0.51	0.01	<0.01	
			BLACK QTZ, CHLOR.		167.25	8007	167.38	167.88	0.50	0.01	0.01	
170.00			E.O.H.									

*For features such as foliation, bedding, schistosity, measured from the long axis of the core. / *Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

"Mining Lands Website: http://www.mndm.gov.on.ca/mndm/mines/lands/default_e.asp"
"Site Web de la Section des terrains miniers : http://www.mndm.gov.on.ca/mndm/mines/lands/default_f.asp"

0204 (01/2006)

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Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

Drill Log
Journal de forage

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Hole ID / Forage n°	Claim No. / N° de concession minière	Township/Area / Canton/
H-2	4201590	CARDIFF

Name of Land Holder / No. de	Azimuth	Dip / Inclinaison	End of Hole (m) / fin de forage (m)	Overburden Depth / profondeur des morts-terrains
Tom BARR	045	-45	332	5m

Drilling Company / Compagnie de forage	Logged by (print) / Inscrit par (écrire en lettres moulées)	Core Size / Dimensions de la carotte	Collar Elevation / Elévation du collier
DT/LEVERT	T. BEESLEY	BTW	n a

Date Hole Started (yyyy/mm/dd) / Date de commencement du forage (aaaa/mm/jj)	Date Completed (yyyy/mm/dd) / Date d'achèvement (aaaa/mm/jj)	Date Logged (yyyy/mm/dd) / Date d'inscription au journal (aaaa/mm/jj)	Location of Core Storage / Endroit où la carotte est stockée
2007/03/24	2007/03/24	2007/03/24	

DRILL HOLE COLLAR LOCATION CO-ORDINATES / COORDONNÉES DU COLLIER DE TROU DE FORAGE

UTM / MTU

Datum: ☐ NAD 27 ☑ NAD 83

Zone: ☐ 15 ☐ 16 ☐ 17 ☑ 18 ☐

Northing / Ordonnée: 4990056

Easting / Abscisse: 721854

Latitude / Longitude
degrees/minutes/seconds or decimal values
degrés/minutes/secondes ou valeurs décimales

Datum: ☐ NAD 27 ☐ NAD 83

Latitude:

Longitude:

Footage/Avancement From/De	Footage/Avancement To/À	Rock type \ type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.) / Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Planar Feature Angle * / Angle des caractéristiques planes	Core Speciman Footage / Longueur en pieds des carottes prélevées	Your Sample No./ N° d'é hantillon du prospecteur	Sample Footage/ Niveau de prélèvement de l'échantillon (en pieds) From/De	Sample Footage/ Niveau de prélèvement de l'échantillon (en pieds) To/À	Sample Length/ Longueur de l'échantillon	Assays/ Analyses minéralurgiques
5.0	80.70	AMPH.	AMPHIBOLITE: DK GN TO BLK, M.G. PINK FELDSAR PORPHYROBLASTS.	45						
			14.86-15.06 BADLY BROKEN CORE, FIST							
			35.85-36.20 DK GN CHLORITE BAND 20°ca,							
			CRSE HBE XLS.							
			43.30 BANDING 60°ca							
			47.06-47.90:- UNEVEN FRACTURED 20°45°, 80°ca							
			76.19-76.55 LT PNK PEG SEGN; non-rad.							
80.70	90.63	AMPH.	F.G. salt + pepper texture	75						
90.63	113.44	GAR PGN	GARNET PARAGNEISS:- BUFF, F. TO M.G.							
			GARNET PORPHYROBLASTS TO 2 cm.							

*For features such as foliation, bedding, schistosity, measured from the long axis of the core. / *Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

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"Site Web de la Section des terrains miniers : http://www.mndm.gov.on.ca/mndm/mines/lands/default_f.asp"

Ontario

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Ministère du Développement du Nord et des Mines

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Journal de forage

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Footage/Avancement From/De	Footage/Avancement To/À	Rock type/ type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.)/ Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Planar Feature Angle */ Angle des caractéristiques planes	Core Speciman Footage/ Longueur en pieds des carottes prélevées	Your Sample No./ N° d'échantillon du prospecteur	Sample Footage/ Niveau de prélèvement de l'échantillon (en pieds) From/De	Sample Footage/ Niveau de prélèvement de l'échantillon (en pieds) To/À	Sample Length/ Longueur de l'échantillon	Assays/ Analyses minéralurgiques
90.63	113.44	GAR PGN								
			103.1 - 104.20 HEAVY GRAPHITE COATED SLIPS							
			AND FRACTURES, ALL ANGLES CA							
113.44	118.22	PARAGNEISS	LT BRN, F.G.	50						
118.22	126.02	AMPH	BLK, MASSIVE, SALT AND PEPPER							
126.02	135.08	PARAGNEISS	AS 113.44 - 118.22	60						
135.08	138.40	SCHIST	DK GN; 1-3% Po							
138.40	138.97	AMPH	F. To M.G.; SALT + PEPPER.							
138.97	153.45	SCHIST	AS ABOVE 135.08 - 138.40; XRSE; PYRITE							
153.45	158.04	AMPH	AS ABOVE 118.22 - 126.02							
158.04	165.00	GAR PGN	AS ABOVE 90.63 - 113.44	55						
165.00	173.62	PINK GNEISS	F.G.	60						
173.62	174.43	GAR PGN	F.G. BLACK, DEFORMED	45						
174.43	175.56	PINK GNEISS	AS ABOVE 165.00 - 173.62							
175.56	181.49	GREEN SCHIST	CRSE; 1% Po							
181.49	186.50	GAR PGN	F.G.; MID BROWN TO DK GRN							
186.50	190.80	PINK GNEISS	AS ABOVE 165.00 - 173.62	45						
190.80	200.90	AMPH	DK GRN, M. TO C. G.							
200.90	207.90	GAR PGN	DK BRN, F.G.; GARNETS TO 5mm							
207.90	208.61	AMPH	DK GRN, XRSE							
208.61	234.12	GAR PGN	PALE BEIGE; FINE TO M.G. ELONGATED GARNETS	65						
234.12	244.36	AMPH	DK GRN XRSE							
244.36	249.43	AMPH	M.G., SALT AND PEPPER.							
249.43	282.10	GARPGN	F.G. BEIGE GRY							
			252-72 BANDING	70						

*For features such as foliation, bedding, schistosity, measured from the long axis of the core. / *Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

"Mining Lands Website: http://www.mndm.gov.on.ca/mndm/mines/lands/default_e.asp"
"Site Web de la Section des terrains miniers : http://www.mndm.gov.on.ca/mndm/mines/lands/default_f.asp"

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Ministère du Développement du Nord et des Mines

Drill Log / Journal de forage

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Footage/Avancement From/De	Footage/Avancement To/À	Rock type/ type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.)/ Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Planar Feature Angle */ Angle des caractéristiques planes	Core Speciman Footage/ Longueur en pieds des carottes prélevées	Your Sample No / N° d'échantillon du prospecteur	Sample Footage/ Niveau de prélèvement de l'échantillon (en pieds) From/De	Sample Footage/ Niveau de prélèvement de l'échantillon (en pieds) To/À	Sample Length/ Longueur de l'échantillon	Assays/ Analyses minéralurgiques Ag oz/t	Assays/ Analyses minéralurgiques Au oz/t
42.72	64.48	PARAGNEISS	F.G., BRN, PEG SEGREGATIONS S 3.45-57.60, 59.87-62.42 :- PEGS								
64.48	66.27	GAR PGN	CHLORITE ALTERED F.TO M.G.	60							
66.27	89.20	PARAGNEISS	F. TO M.G. BRN-GRN CHLORITE ALTERED	60							
			PEG; DK RED, SHATTERED PY+MOLY		82.07	8024	81.14	82.66	1.52	0.31	0.17
			PEG; DK RED, PY		87.60	8025	87.56	87.67	0.11	0.01	<0.01
			WHITE PEG		88.31	8026	88.25	88.41	0.16	0.06	0.03
~~89.20~~						~~8027~~					
89.20	91.75	GAR PGN	BUFF TO GRN; GARNET BLASTS TO 4 cm								
91.25	161.47	PARAGNEISS	LT. BROWN, QTZ RICH / WHITE PEG, BIOT., PO DISSEM →		93.71	93.8027	93.40	94.71	1.31	0.10	0.04
			PEG DARK PLAG. BIOT BKS 3-5% PY		99.78	99.8028	99.43	100.80	1.37	0.02	<0.01
			AS 2028 ABOVE <1% PY		100.10	8029	100.80	102.24	1.44	0.03	<0.01
			PEG DK PINK BIOT BKS QTZ EYES <1% PY		102.95	8030	102.24	103.70	1.46	0.08	<0.01
			PEG, XRSE BIOT., 1% PY		104.46	8031	103.70	105.14	1.44	0.02	<0.01
			96.87 BANDING	85							
~~161.47~~			111.36 - 112.10 PEG; NON-RAD.								
			112.20, 129.86 BANDING	70							
			144.43 - 147.15 ROOTLESS FOLDS; ~~FELDSPAR~~								
			WHITE FELDSPAR SEGREGATIONS								
			151.65 BANDING	70							
			154.85 "	65							
161.47	163.52	AmPH	MID GN M.G., MASSIVE								
163.52	176.0	PARAGNEISS	AS ABOVE 91.95-161.47	60							
			171.60 - 173.00 BADLY BROKEN CORE; TALC-CHL FRACTURE FILL								
176.0			E.O.H.								

*For features such as foliation, bedding, schistosity, measured from the long axis of the core. / *Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

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Ministère du Développement du Nord et des Mines

Drill Log / Journal de forage

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Footage/Avancement From/De	Footage/Avancement To/À	Rock type/ type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.)/ Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Planar Feature Angle */ Angle des caractéristiques planes	Core Speciman Footage/ Longueur en pieds des carottes prélevées	Your Sample No./ N° d'échantillon du prospecteur	Sample Footage/ Niveau de prélèvement de l'échantillon (en pieds) From/De	Sample Footage/ Niveau de prélèvement de l'échantillon (en pieds) To/À	Sample Length/ Longueur de l'échantillon	Assays/ Analyses minéralurgiques U3O8	Assays/ Analyses minéralurgiques Mo	Assays/ Analyses minéralurgiques Pb
61.36	80.84	AMPH.										
			66.60-66.80 GRN CHLORITIC PEG									
			67.70-75.06 POROUS, CALCITE REPLACEMENT									
			77.53-77.96 WHOLESALE REPLACEMENT									
			BY MASSIVE WHITE CALCITE									
0.84	83.76	AMPH	SALT AND PEPPER, M.G.									
3.76	134.04	AMPH	GRN, M.G.: PARTIAL TO WHOLESALE									
			REPLACEMENT BY CALCITE.									
			92.33-101.95: POROSITY DUE TO CALCITE									
32.04	136.94	PINK GNEISS	FELDSPAR-BIOTITE	50°								
36.94	139.87	GAR PNG	BRN, F.G. GARNET BLASTS TO 4mm	55								
			148.67-148.79 GRAPHITIC SHEAR, PY	50								
			PEG BLACK QTZ, REMNANT GNEISS		142.65	80032	142.59	142.76	0.11	0.02	<0.01	
59.16	160.65	SCHIST	BRN, XRSE: PYRRHOTITEROUS	75								
60.65	164.92	GAR PNG	XRSE, BRN; ALTERED	80								
64.92	166.80	SCHIST	BRN, CRSE: BIOTITE, PYRRHOTITE + GRAPHITE									
			164.06-164.50: WHITE PEG.									
66.80	172.18	GAR PNG	ALTERED			~~80033~~						
			169.55-169.82 WHITE PEG - BROWN CRYSTALS									
			STUBBY ORTHORHOMIC ALLANITE(?) EUXENITE(?)									
72.18	193.65	SCHIST	BRN, XRSE: PYRRHOTITEROUS									
			176.44-177.10, 179.63-179.78, 180.20-181.94,									
			191.04-191.38 BROWN CRYSTALS IN WHITE PEGS.									
193.65	196.44	GAR PNG	BUFF, F.G.									
196.44	204.86	AMPH	GRN, F.G. SALT + PEPPER	60								

*For features such as foliation, bedding, schistosity, measured from the long axis of the core. / *Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

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Ontario

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

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Journal de forage

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Footage/Avancement From/De	Footage/Avancement To/À	Rock type/ type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.)/ Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Planar Feature Angle */ Angle des caractéristiques planes	Core Speciman Footage/ Longueur en pieds des carottes prélevées	Your Sample No./ N° d'échantillon du prospecteur	Sample Footage/ Niveau de prélèvement de l'échantillon (en pieds) From/De	Sample Footage/ Niveau de prélèvement de l'échantillon (en pieds) To/À	Sample Length/ Longueur de l'échantillon	Assays/ Analyses minéralurgiques	
148.93	216.47	PARAGNEISS	BUFF, F.G.	70							
216.47	247.36	AMPH	AS ABOVE 190.48 - 215.93								
247.86	261.18	AMPH	SCHIST, GRN TO PINK, XRSE	60							
261.18	285.00	PARAGNEISS	PINK, FELDSPATHIZED	60							
			40 cps B+W PEG, CHLORITE		261.48	B048	261.25	261.82	0.57	<0.01	<0.01
			300 cps PEG DK RED		279.11	B049	278.50	279.40	0.90	0.03	0.05
285.00	286.30	GAR PNG	BRN, XRSE.								
			285.0 - 285.19 PINK PEG								
286.30	303.25	AMPH	GRN, M.G. TO F.G SALT + PEPPER	65							
303.25	304.10	PARAGNEISS	PINK, F.G. (300 cps PEG BIOT)		298.44	~~B050~~	298.32	298.54	0.22	0.03	0.05
304.10	304.70	AMPH	AS ABOVE 286.30 - 303.25			~~B050~~					
304.70	305.07	PARAGNEISS	AS ABOVE 303.25 - 304.10								
305.07	309.12	GAR PNG	DARK GN, M.G. AMPHIBOLE								
309.12	321.00	PARAGNEISS	PINK								
321.00	332.00	GAR PNG	BRN, F.G.	55							
			327.85 BANDING								
332.00			E.O.H.								

*For features such as foliation, bedding, schistosity, measured from the long axis of the core. / *Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

"Mining Lands Website: http://www.mndm.gov.on.ca/mndm/mines/lands/default_e.asp"

"Site Web de la Section des terrains miniers : http://www.mndm.gov.on.ca/mndm/mines/lands/default_f.asp"

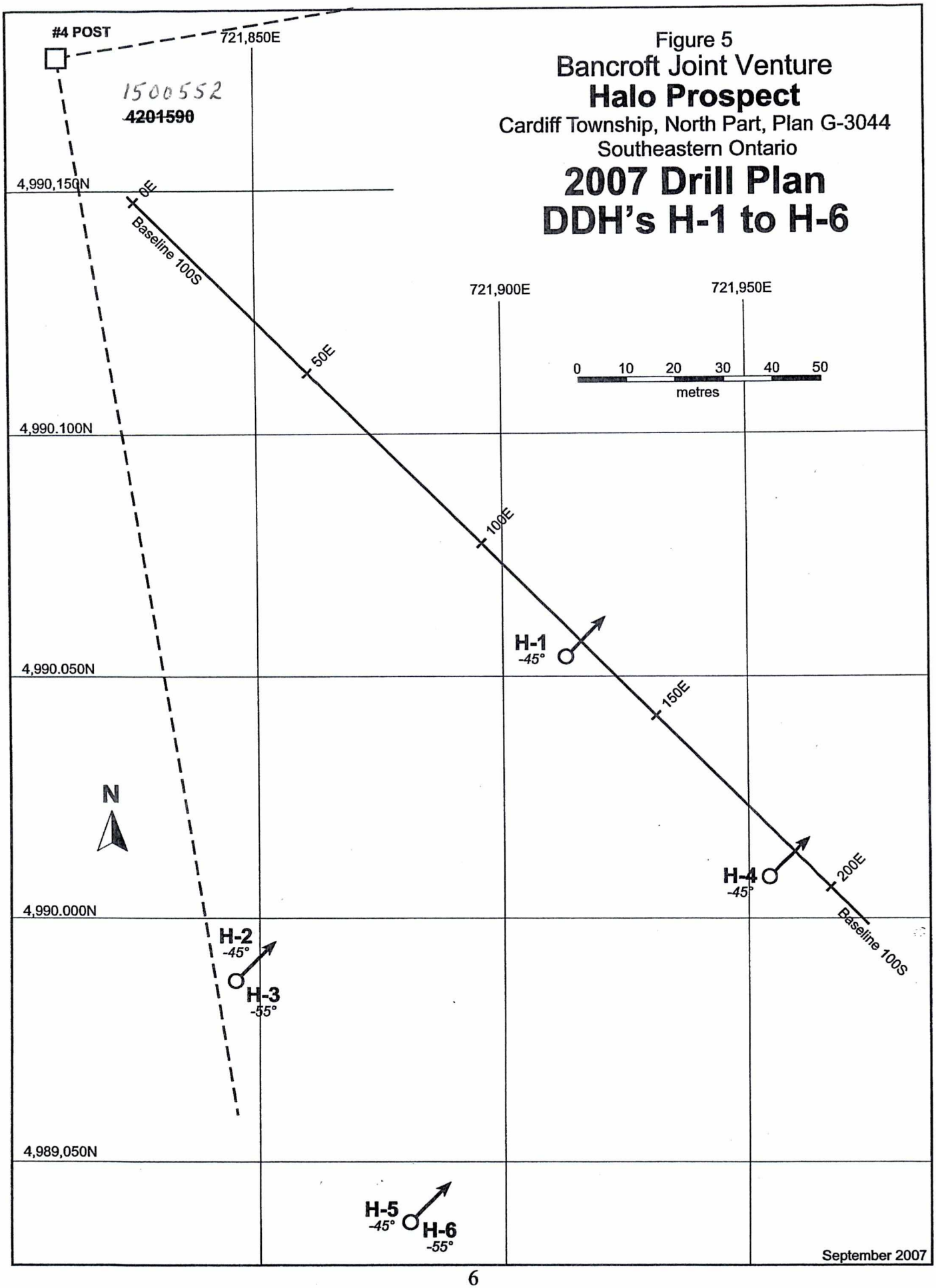

Figure 5

Bancroft Joint Venture

Halo Prospect

Cardiff Township, North Part, Plan G-3044

Southeastern Ontario

2007 Drill Plan

DDH's H-1 to H-6