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2.57913

**Rock Sampling
Cunningham Township, Ontario
For Skead Holdings Ltd.
By
R.A. MacGregor, P. Eng.
June 2, 2016**

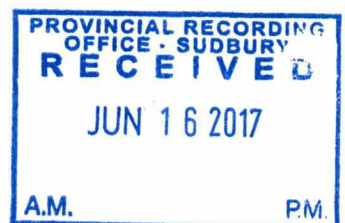
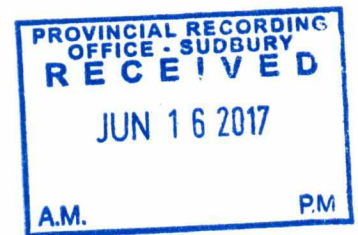


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Summary

A total of 46 rock samples were collected in Cunningham Township and analyzed for gold by fire assay and 45 elements by ICP-MS after 4-acid dissolution. Some additional analysis was carried out on samples previously obtained.

The work was carried out to obtain an overview of possible mineralization and rock types in an area with known Pb-Zn-Cu showings.

Location and Access

The property is located in Cunningham Twp approximately 10 km northeast of Sultan, Ontario, which is on the Canadian Pacific transcontinental railway. Sultan is 47 km east of Hwy 129 on Regional Road 667 about 28 km southeast of Chapleau, Ontario. The property can be reached from Sultan by 4x4 vehicles over logging access roads. Sample sites were accessed by ATV or on foot.

Previous Work

The area has been actively explored since shortly after the construction of the Canadian Pacific railway, first for iron and later base metals. Recent work has consisted of geophysical surveys, soil surveys and diamond drilling by a number of companies.

General Geology

The area is underlain by a volcanic – sedimentary sequence of rocks which has been intruded by a felsic stock. Lead-Zinc mineralization occurs in the argillite-iron formation.

Work Program

A two man crew spent 2 ½ days collecting samples in areas which had been identified as having outcrop available. Approximately 5 kg of rock was collected at each site and placed in plastic sample bags with a sample tag. The bags were also marked with the sample number by black permanent marker.

Samples were taken to Larder Lake where they were removed from the bags, cleaned of dirt and vegetation and larger pieces broken. One sample was cut by diamond saw, marked for identification and retained for reference. The remainder was placed in a clean sample bag and sent to Swastika Labs for sample preparation and analysis for gold by fire assay. Pulps were retrieved from the assay lab and an approximately 200 gram sample archived in 40 dram plastic vials. A 20-30 gram portion of sample was placed in a paper envelope marked with identifying number and sent to Acme Labs for 45 element analysis by ICP-MS following 4 acid dissolution.

The pulps from four previously collected and analysed samples were retrieved from storage, an 80 – 100 gram portion was placed in large paper envelopes marked with identifying number and sent to Acme Labs. The four samples of 30 grams each were analysed for Au, Pt and Pd by ICP-ES after fire assay fusion. Two samples also previously collected and analysed were retrieved from storage, a 20 – 30 gram portion was placed in paper envelopes marked with identifying number and sent to Acme Labs. The two samples of 0.2 grams each were analysed for a number of whole rock elements by ICP-ES after lithium borate fusion.

Results

Highest Au assay was 58 ppb. A number of samples are anomalous in Cu, Pb and Zn. Further follow-up for base metals is indicated.

The two whole rock samples indicate an ultramafic with low sulphur. Platinum-palladium is low, but possibly weakly anomalous in previously collected samples.

Respectfully submitted,



June 2, 2016

R. A. MacGregor, P. Eng.

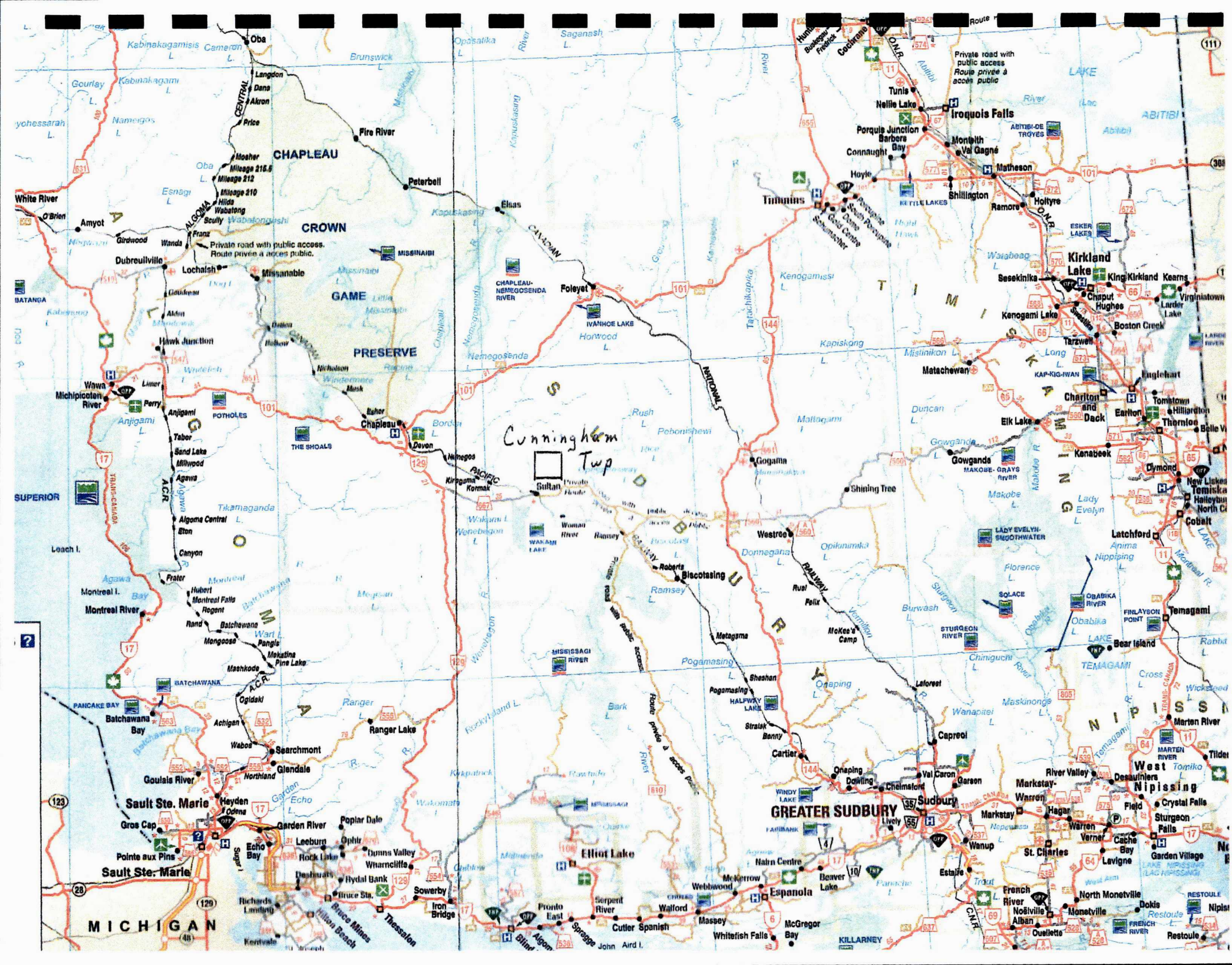
<u>Sample No.</u>	<u>IMA No.</u>
34464	1798
34465	1799
34466	1800
34467	1801
34468	1802
34469	1803
34470	1804
34471	1805
34472	1806
34473	1807
34474	1808
34475	1809
34476	1810
34477	1811
34478	1812
34479	1813
34480	1814
9495	1775
9496	1815
9497	1816

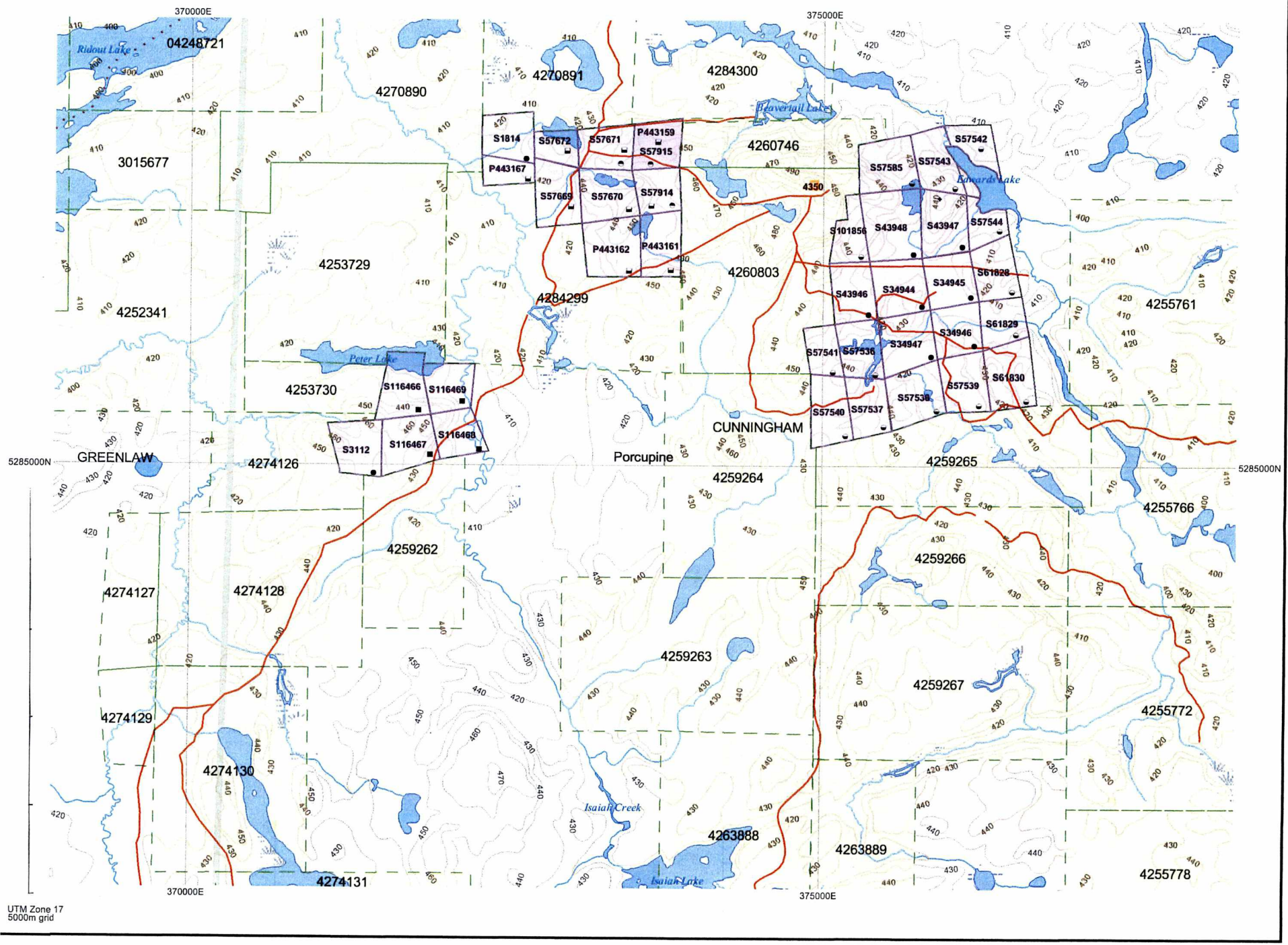
	<u>WR No.</u>	<u>APG No.</u>
34302		91
34303		90
34304	382	
34307		92
34352	384	
34353		93
34301	403	

Sample	UTM E	UTM N	Sample	UTM E	UTM N
27601	373091	5286524	34302	374575	5284826
27602	372879	5286494	34303	374564	5284850
27603	372883	5286404	34304	374648	5284829
27604	372901	5286312	34307	374647	5284717
34410	373694	5286427	35352	375827	5284598
34411	373825	5286434	35353	375860	5284699
34412	373821	5286344	9495	373091	5286524
34413	373781	5286343	9496	374085	5286323
34414	373794	5286239	9497	373955	5286575
34415	373792	5286218			
34416	373778	5286318			
34417	373683	5286275			
34418	374093	5286252			
34419	374134	5286318			
34420	374102	5286366			
34421	374085	5286323			
34422	374051	5286227			
34423	374046	5286189			
34424	374020	5286168			
34464	373536	5285783			
34465	373596	5285799			
34466	373492	5285815			
34467	373556	5285864			
34468	373548	5285920			
34469	373635	5285980			
34470	373565	5286162			
34471	373629	5286135			
34472	374247	5285250			
34473	374221	5285298			
34474	374171	5285366			
34475	374114	5285444			
34476	374098	5285265			
34477	374067	5285169			
34478	373951	5285158			
34479	373983	5285377			
34480	374027	5285332			
6026	373076	5285960			
6027	373074	5285965			
6028	373000	5285942			
6029	372882	5285881			
6030	372906	5285938			
6031	373048	5286012			
6032	373196	5285988			

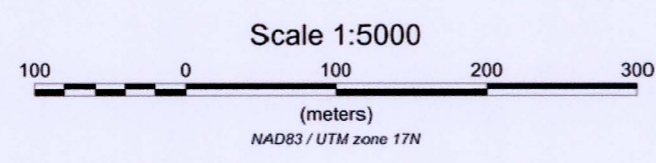
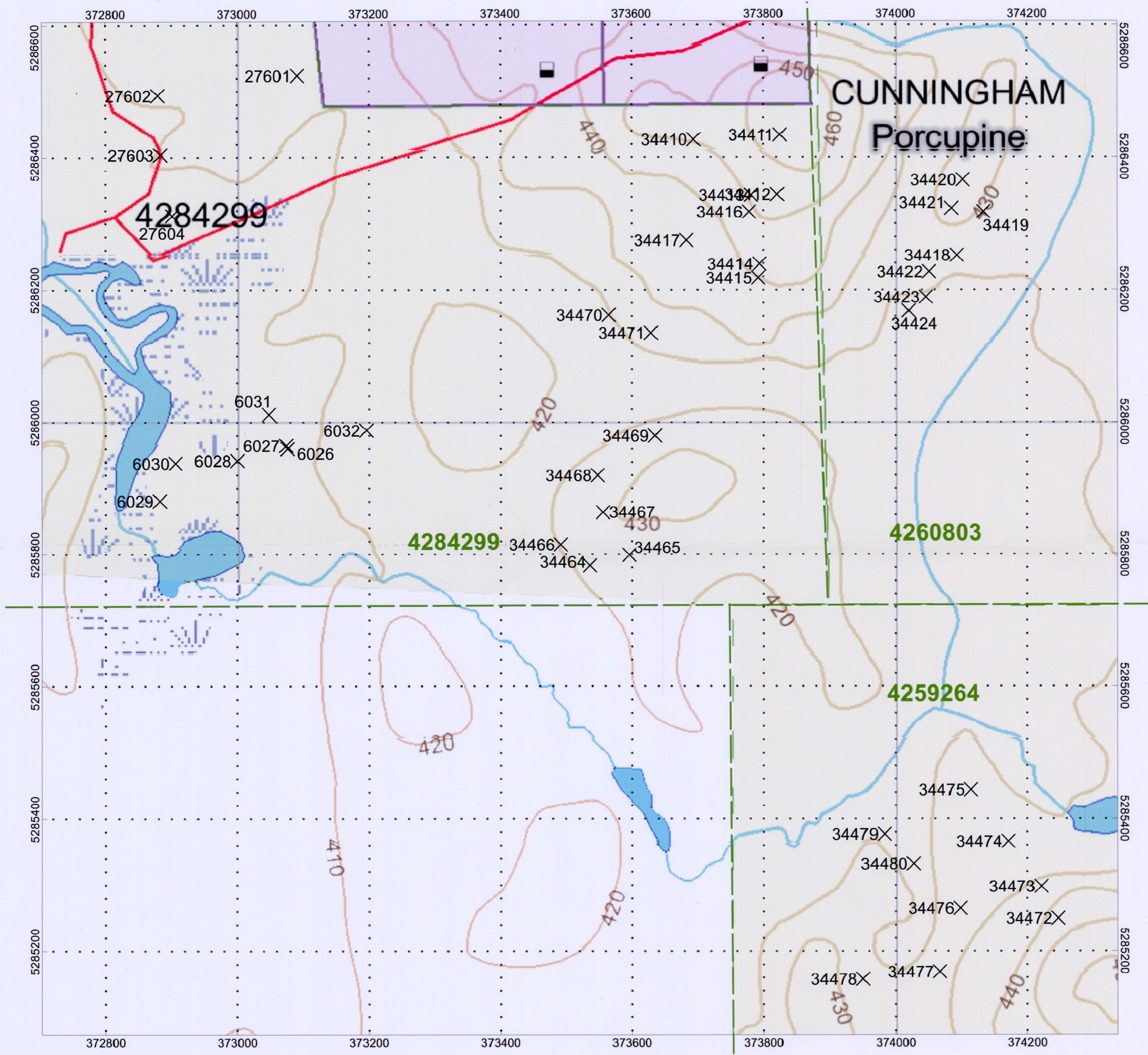
Appendix I


Maps





UTM Zone 17
5000m grid



SKEAD HOLDINGS LTD.	
CUNNINGHAM PROPERTY Cunningham Township, Ontario	
PROSPECTING TRAVERSE PLAN MAP	
Traverses by: J Ploeger, B Bonney, B Lavalley and C Moraga Processed by: C Jason Ploeger, B.Sc. Map Drawn By: C Jason Ploeger, B.Sc. December 2015	
Drawing: SKEAD-CUNNINGHAM-PROSPECTING	

Appendix II

Certificate of Analysis



Established 1928

Swastika Laboratories Ltd

Assaying - Consulting - Representation

Page 1 of 2

Assay Certificate

Certificate Number: 15-2461

Company: **Robert MacGregor**

Project:

Report Date:

18-Nov-15

Attn: **Robert MacGregor**

We hereby certify the following Assay of 46 rock/grab samples submitted 13-Nov-15 by Robert MacGregor

Sample Number	Au	Au Chk
	FA-MP ppb	FA-MP ppb
6026	3	
6027	3	
6028	2	
6029	< 2	
6030	2	
6031	5	
6032	< 2	
27601	58	
27602	8	
27603	7	4
Blank Value	< 2	
OxH97	1278	
27604	7	
34410	2	
34411	4	
34412	2	
34413	4	
34414	3	
34415	3	
34416	7	
34417	< 2	
34418	< 2	< 2
34419	< 2	
34420	< 2	
34421	< 2	

Certified by Jing Lin
Jing Lin, M Sc.



Established 1928

Swastika Laboratories Ltd

Assaying - Consulting - Representation

Page 2 of 2

Assay Certificate

Certificate Number: 15-2461

Company: **Robert MacGregor**

Project:

Report Date:

18-Nov-15

Attn: **Robert MacGregor**

We hereby certify the following Assay of 46 rock/grab samples submitted 13-Nov-15 by Robert MacGregor

Sample Number	Au	Au Chk
	FA-MP ppb	FA-MP ppb
34422	< 2	
34423	4	
34424	10	
34464	< 2	
34465	< 2	
Blank Value	< 2	
OxH97	1277	
34466	< 2	
34467	< 2	< 2
34468	< 2	
34469	2	
34470	6	
34471	< 2	
34472	2	
34473	< 2	
34474	< 2	
34475	< 2	
34476	< 2	
34477	< 2	< 2
34478	< 2	
34479	< 2	
34480	< 2	
9495	38	
9496	5	
9497	12	

Certified by Jing Lin
Jing Lin, M Sc.



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Canada

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

Client: MacGregor, R.A.
28 Ford St.
Sault Ste. Marie ON P6A 4N4 CANADA

Submitted By: R.A. MacGregor
Receiving Lab: Canada-Vancouver
Received: October 26, 2015
Report Date: November 20, 2015
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN15002846.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 21

SAMPLE DISPOSAL

RTRN-PLP Return

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 ON P6A 4N4
CANADA

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SLBHP	21	Sorting, labeling and boxing samples received as pulps			VAN
LF302	21	LIBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed	VAN
DRPLP	21	Warehouse handling / disposition of pulps			VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. 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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Canada

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

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

Project: None Given
Report Date: November 20, 2015

Page: 2 of 2 Part: 1 of 2

CERTIFICATE OF ANALYSIS

VAN15002846.1

Method	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300
Analyte	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	Sum	
Unit	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	0.01	
WR380	Rock Pulp	52.65	14.95	17.54	3.82	1.50	1.40	1.13	0.68	0.27	0.07	0.037	453	147	91	100	18	<5	23	5.7	99.90
WR381	Rock Pulp	29.09	5.61	35.69	4.54	10.40	0.12	0.58	0.29	<0.01	1.63	0.275	127	927	55	17	10	<5	20	11.5	99.88
WR382	Rock Pulp	44.48	6.58	11.95	22.36	5.22	0.23	0.04	0.29	0.02	0.17	0.329	10	800	15	25	9	<5	19	7.8	99.82
WR383	Rock Pulp	41.59	8.22	7.13	12.41	9.59	0.52	1.40	0.59	0.59	0.13	0.124	1448	492	400	186	25	<5	15	17.1	99.75
WR384	Rock Pulp	43.45	4.69	12.57	25.78	3.56	0.21	0.05	0.25	0.07	0.17	0.403	8	997	10	24	8	<5	16	8.2	99.55
WR385	Rock Pulp	47.92	13.70	8.62	4.69	9.10	4.64	1.57	0.72	0.04	0.20	0.048	120	131	225	42	15	<5	35	8.5	99.86
WR386	Rock Pulp	63.85	13.81	4.07	1.84	2.96	7.04	0.70	0.36	0.07	0.05	0.019	794	32	1282	99	6	<5	6	4.9	99.97
WR387	Rock Pulp	65.65	13.49	3.42	1.65	2.87	7.00	0.55	0.34	0.09	0.05	0.016	558	25	461	103	7	<5	7	4.7	99.98
WR388	Rock Pulp	57.95	13.83	5.08	3.46	5.61	4.67	2.03	0.55	0.28	0.09	0.033	793	35	209	144	12	<5	13	6.2	99.92
WR389	Rock Pulp	66.60	14.50	3.10	0.94	3.12	5.31	2.17	0.34	0.11	0.05	0.013	316	24	162	110	7	<5	7	3.7	99.99
WR390	Rock Pulp	57.27	13.00	2.91	2.82	6.24	7.20	0.39	0.26	0.85	0.09	0.025	3347	39	1449	128	18	<5	5	8.3	99.95
WR391	Rock Pulp	61.79	13.91	4.43	3.33	4.22	4.65	2.55	0.38	0.22	0.08	0.036	1826	48	653	127	11	<5	10	4.0	99.92
WR392	Rock Pulp	44.06	8.20	7.23	9.67	7.23	0.43	2.98	0.58	0.54	0.13	0.118	1895	273	1186	154	16	<5	16	18.2	99.78
WR393	Rock Pulp	60.75	13.26	4.19	3.51	5.90	4.48	3.23	0.37	0.23	0.11	0.030	2408	46	718	124	10	<5	10	3.5	99.93
WR394	Rock Pulp	46.47	12.09	9.34	10.92	6.79	2.34	0.79	0.68	0.35	0.12	0.069	447	125	405	110	16	<5	22	9.7	99.76
WR395	Rock Pulp	43.10	5.52	9.17	21.21	7.52	<0.01	<0.01	0.26	0.01	0.17	0.304	<5	1120	156	16	6	<5	19	12.2	99.63
WR396	Rock Pulp	49.19	13.09	11.46	3.39	9.35	1.92	1.40	1.24	0.09	0.26	0.019	251	92	55	70	26	<5	42	8.4	99.87
WR397	Rock Pulp	67.00	17.08	2.02	1.21	2.08	7.53	1.07	0.40	0.07	0.03	0.013	453	<20	365	112	5	<5	6	1.4	99.99
WR398	Rock Pulp	41.10	11.60	12.46	3.06	13.83	2.24	0.28	2.90	0.88	0.44	0.016	132	36	2009	384	2153	320	16	2.8	92.22
WR399	Rock Pulp	42.65	8.74	7.14	7.91	11.22	0.19	2.91	0.62	0.55	0.14	0.104	614	212	556	139	18	7	17	17.5	99.85
WR400	Rock Pulp	55.99	11.05	5.30	5.44	6.41	4.39	1.00	0.42	0.17	0.10	0.066	715	120	362	101	10	<5	12	9.4	99.89



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

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

Project: None Given
Report Date: November 20, 2015

Page: 2 of 2

Part: 2 of 2

CERTIFICATE OF ANALYSIS

VAN15002846.1

Method	TC000	TC000
Analyte	TOT/C	TOT/S
Unit	%	%
MDL	0.02	0.02
WR380	Rock Pulp	0.43 0.09
WR381	Rock Pulp	2.52 0.45
WR382	Rock Pulp	0.42 0.02
WR383	Rock Pulp	3.95 0.11
WR384	Rock Pulp	0.08 0.04
WR385	Rock Pulp	
WR386	Rock Pulp	1.22 0.16
WR387	Rock Pulp	1.17 0.24
WR388	Rock Pulp	
WR389	Rock Pulp	0.64 0.66
WR390	Rock Pulp	2.29 0.11
WR391	Rock Pulp	0.80 0.21
WR392	Rock Pulp	5.16 0.08
WR393	Rock Pulp	0.76 0.04
WR394	Rock Pulp	1.51 1.92
WR395	Rock Pulp	2.04 0.02
WR396	Rock Pulp	1.94 0.19
WR397	Rock Pulp	0.25 0.44
WR398	Rock Pulp	0.12 0.31
WR399	Rock Pulp	4.76 0.06
WR400	Rock Pulp	2.54 0.19



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9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
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Client: **MacGregor, R.A.**
28 Ford St.
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Project: None Given
Report Date: November 20, 2015

Page: 1 of 1 Part: 1 of 2

QUALITY CONTROL REPORT

VAN15002846.1

Method	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300
Analyte	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	Sum	
Unit	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	0.01	
WR389	Rock Pulp	66.60	14.50	3.10	0.94	3.12	5.31	2.17	0.34	0.11	0.05	0.013	316	24	162	110	7	<5	7	3.7	99.99
Pulp Duplicates																					
WR398	Rock Pulp	41.10	11.60	12.46	3.06	13.83	2.24	0.28	2.90	0.88	0.44	0.016	132	36	2009	384	2153	320	16	2.8	92.22
REP WR398	QC	40.99	11.57	12.51	3.09	14.00	2.24	0.28	2.91	0.88	0.44	0.016	130	24	1979	358	2158	342	17	2.8	92.33
WR400	Rock Pulp	55.99	11.05	5.30	5.44	6.41	4.39	1.00	0.42	0.17	0.10	0.066	715	120	362	101	10	<5	12	9.4	99.89
REP WR400	QC	55.94	11.14	5.24	5.44	6.40	4.42	1.00	0.43	0.16	0.10	0.067	723	124	363	102	10	<5	12	9.4	99.89
Reference Materials																					
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD SO-18	Standard	58.11	14.08	7.59	3.40	6.38	3.66	2.15	0.69	0.81	0.39	0.557	500	44	388	305	30	19	25	1.9	99.89
STD SO-18	Standard	57.88	14.23	7.68	3.40	6.45	3.65	2.11	0.69	0.80	0.40	0.560	486	53	387	294	29	22	23	1.9	99.90
STD SO-19	Standard	60.64	13.94	7.41	2.91	5.90	4.04	1.29	0.70	0.31	0.13	0.497	475	464	316	116	35	67	27	1.9	99.89
STD SO-19	Standard	60.24	14.04	7.53	2.92	6.00	4.05	1.32	0.70	0.32	0.13	0.509	469	478	314	113	34	73	26	1.9	99.87
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD SO-18 Expected		58.47	14.23	7.67	3.35	6.42	3.71	2.17	0.69	0.83	0.39	0.55	515	44	402	290	29	21	25		
STD SO-19 Expected		61.13	13.95	7.47	2.88	6	4.11	1.29	0.69	0.32	0.13	0.5	486	470	317.1	112	35.5	68.5	27		
BLK	Blank																				
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	<0.01
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	<0.01



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VERITAS Canada

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

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

Project: None Given
Report Date: November 20, 2015

Page: 1 of 1

Part: 2 of 2

QUALITY CONTROL REPORT

VAN15002846.1

Method		TC000	TC000
Analyte		TOT/C	TOT/S
Unit		%	%
MDL		0.02	0.02
WR389	Rock Pulp	0.64	0.66
Pulp Duplicates			
WR398	Rock Pulp	0.12	0.31
REP WR398	QC		
WR400	Rock Pulp	2.54	0.19
REP WR400	QC	2.52	0.18
Reference Materials			
STD GS311-1	Standard	1.01	2.46
STD GS910-4	Standard	2.81	8.63
STD SO-18	Standard		
STD SO-18	Standard		
STD SO-19	Standard		
STD SO-19	Standard		
STD GS311-1 Expected		1.02	2.35
STD GS910-4 Expected		2.65	8.27
STD SO-18 Expected			
STD SO-19 Expected			
BLK	Blank	<0.02	<0.02
BLK	Blank		
BLK	Blank		



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9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

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

Submitted By: R.A. MacGregor
Receiving Lab: Canada-Vancouver
Received: February 16, 2016
Report Date: February 24, 2016
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN16000303.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 18

SAMPLE DISPOSAL

RTRN-PLP Return

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
BAT01	1	Batch charge of <20 samples			VAN
SLBHP	18	Sorting, labeling and boxing samples received as pulps			VAN
FA330	18	Fire assay fusion Au Pt Pd by ICP-ES	30	Completed	VAN
DRPLP	18	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 ON P6A 4N4
CANADA

CC:



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*** 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

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

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

Project: None Given
Report Date: February 24, 2016

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN16000303.1

Method	Analyte	FA330	FA330	FA330
		Au	Pt	Pd
Unit		ppb	ppb	ppb
MDL		2	3	2
EPG 40	Pulp	8	22	83
EPG 41	Pulp	<2	9	9
EPG 42	Pulp	5	7	7
EPG 43	Pulp	2	7	6
EPG 44	Pulp	9	9	6
EPG 45	Pulp	8	9	7
EPG 46	Pulp	3	14	10
EPG 47	Pulp	25	6	2
APG 83	Pulp	19	32	26
APG 89	Pulp	10	5	2
APG 90	Pulp	60	12	10
APG 91	Pulp	203	14	15
APG 92	Pulp	21	7	<2
APG 93	Pulp	11	10	13
API 86	Pulp	5	<3	4
API 87	Pulp	116	5	2
API 88	Pulp	8	<3	8
API 89	Pulp	4	16	5



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9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

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

Project: None Given
Report Date: February 24, 2016

Page: 1 of 1

Part: 1 of 1

QUALITY CONTROL REPORT

VAN16000303.1

Method	Analyte	FA330	FA330	FA330
		Au	Pt	Pd
Unit		ppb	ppb	ppb
MDL		2	3	2
REP API 87	QC	140	7	4
Reference Materials				
STD CDN-PGMS-23	Standard	484	483	2067
STD CDN-PGMS-23	Standard	475	477	2031
STD CDN-PGMS-23	Standard	498	484	2171
STD CDN-PGMS-23	Standard	505	474	2072
STD CDN-PGMS-23		496	456	2032
BLK	Blank	<2	<3	<2
BLK	Blank	<2	<3	3
BLK	Blank	<2	<3	<2
BLK	Blank	<2	<3	<2



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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

Submitted By: R.A. MacGregor
Receiving Lab: Canada-Vancouver
Received: March 21, 2017
Report Date: April 04, 2017
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN17000501.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 10

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
BAT01	1	Batch charge of <20 samples			VAN
SLBHP	10	Sorting, labeling and boxing samples received as pulps			VAN
LF302	10	LIBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed	VAN

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days

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:



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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: April 04, 2017

Page: 2 of 2

Part: 1 of 2

CERTIFICATE OF ANALYSIS

VAN17000501.1

Method	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	
Analyte	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	Sum	
Unit	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	0.01	
WR401	Rock Pulp	53.83	13.34	7.21	6.80	5.35	4.01	1.90	0.56	0.30	0.12	0.052	1351	85	747	111	14	<5	16	6.1	99.85
WR402	Rock Pulp	57.24	14.97	6.19	3.88	1.56	4.10	2.96	0.64	0.10	0.10	0.062	335	161	171	98	11	<5	17	8.0	99.92
WR403	Rock Pulp	43.93	18.29	15.18	3.08	0.77	0.92	4.12	2.52	0.23	0.21	0.029	520	55	125	217	26	<5	27	10.5	99.85
WR404	Rock Pulp	51.59	13.23	10.20	4.77	7.73	4.32	0.89	1.36	0.28	0.21	0.026	574	44	384	115	28	<5	36	5.1	99.84
WR405	Rock Pulp	52.67	15.04	17.88	3.94	1.54	1.43	1.16	0.70	0.28	0.08	0.037	455	149	92	101	17	<5	23	5.1	99.91
WR406	Rock Pulp	62.60	15.88	5.68	2.07	1.84	8.44	0.07	0.59	0.27	0.04	0.012	39	39	118	146	13	<5	10	2.4	99.95
WR407	Rock Pulp	55.73	22.82	6.46	1.85	0.13	0.08	7.50	0.97	0.10	0.03	0.033	617	34	18	168	30	11	25	4.1	99.93
WR408	Rock Pulp	56.05	22.54	6.62	2.00	0.14	0.08	7.28	0.89	0.10	0.03	0.033	609	68	18	161	29	10	24	4.1	99.93
WR409	Rock Pulp	62.64	15.09	3.82	1.96	3.02	5.07	2.24	0.42	0.20	0.07	0.014	1177	23	533	167	20	6	7	5.2	99.97
WR410	Rock Pulp	62.55	14.84	3.84	1.73	3.13	5.18	1.92	0.42	0.18	0.07	0.019	870	33	326	147	20	6	8	5.9	99.97



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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: April 04, 2017

Page: 2 of 2

Part: 2 of 2

CERTIFICATE OF ANALYSIS

VAN17000501.1

Method	Analyte	TC000	TC000
		TOT/C	TOT/S
Unit		%	%
MDL		0.02	0.02
WR401	Rock Pulp	0.92	0.52
WR402	Rock Pulp	1.98	0.17
WR403	Rock Pulp	0.07	3.69
WR404	Rock Pulp	1.00	1.16
WR405	Rock Pulp	0.40	0.11
WR406	Rock Pulp	0.29	2.07
WR407	Rock Pulp	0.04	0.24
WR408	Rock Pulp	0.05	0.36
WR409	Rock Pulp	1.10	<0.02
WR410	Rock Pulp	1.40	<0.02



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PHONE (604) 253-3158

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

Project: None Given
Report Date: April 04, 2017

Page: 1 of 1

Part: 1 of 2

QUALITY CONTROL REPORT

VAN17000501.1

Method	Analyte	Unit	MDL	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300		
				SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	Sum
				%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%		
WR408	Rock Pulp			56.05	22.54	6.62	2.00	0.14	0.08	7.28	0.89	0.10	0.03	0.033	609	68	18	161	29	10	24	4.1	99.93
Pulp Duplicates																							
WR403	Rock Pulp			43.93	18.29	15.18	3.08	0.77	0.92	4.12	2.52	0.23	0.21	0.029	520	55	125	217	26	<5	27	10.5	99.85
REP WR403	QC																						
WR410	Rock Pulp			62.55	14.84	3.84	1.73	3.13	5.18	1.92	0.42	0.18	0.07	0.019	870	33	326	147	20	6	8	5.9	99.97
REP WR410	QC			62.91	14.62	3.79	1.72	3.09	5.19	1.87	0.42	0.18	0.07	0.019	861	31	320	145	20	<5	9	5.9	99.97
Reference Materials																							
STD GS311-1	Standard																						
STD GS910-4	Standard																						
STD SO-19	Standard			60.61	13.93	7.38	2.92	5.91	4.07	1.30	0.70	0.32	0.13	0.493	466	462	313	116	34	67	27	1.9	99.88
STD SO-19	Standard			60.75	13.81	7.41	2.89	5.96	4.04	1.29	0.70	0.31	0.13	0.485	465	467	309	117	34	68	27	1.9	99.90
STD GS311-1 Expected																							
STD GS910-4 Expected																							
STD SO-19 Expected				61.13	13.95	7.47	2.88	6	4.11	1.29	0.69	0.32	0.13	0.5	486	470	317.1	112	35.5	68.5	27		
BLK	Blank			<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	<0.01
BLK	Blank																						



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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: April 04, 2017

Page: 1 of 1

Part: 2 of 2

QUALITY CONTROL REPORT

VAN17000501.1

Method Analyte Unit MDL		TC000	TC000
		TOT/C %	TOT/S %
WR408	Rock Pulp	0.05	0.36
Pulp Duplicates			
WR403	Rock Pulp	0.07	3.69
REP WR403	QC	0.06	3.77
WR410	Rock Pulp	1.40	<0.02
REP WR410	QC		
Reference Materials			
STD GS311-1	Standard	0.95	2.45
STD GS910-4	Standard	2.61	8.53
STD SO-19	Standard		
STD SO-19	Standard		
STD GS311-1 Expected		1.02	2.35
STD GS910-4 Expected		2.65	8.27
STD SO-19 Expected			
BLK	Blank	<0.02	<0.02
BLK	Blank		



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

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

Submitted By: R.A. MacGregor
Receiving Lab: Canada-Vancouver
Received: January 20, 2016
Report Date: January 26, 2016
Page: 1 of 4

CERTIFICATE OF ANALYSIS VAN16000153.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 81

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SLBHP	81	Sorting, labeling and boxing samples received as pulps			VAN
MA200	81	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
DRPLP	81	Warehouse handling / disposition of pulps			VAN

SAMPLE DISPOSAL

RTRN-PLP Return

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 ON P6A 4N4
CANADA

CC:



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

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

Project: None Given
Report Date: January 26, 2016

Page: 3 of 4

Part: 1 of 3

CERTIFICATE OF ANALYSIS

VAN16000153.1

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	
IMA 1767	Pulp	1.8	65.0	7.4	155	0.1	907.5	73.7	1443	6.28	30	0.4	1.4	380	0.2	0.2	0.3	138	7.25	0.024	7.5
IMA 1768	Pulp	1.9	58.4	12.9	616	0.2	51.0	43.0	2576	15.60	5	17.1	2.8	34	0.1	0.3	0.4	139	0.70	0.179	51.1
IMA 1769	Pulp	1.0	25.9	13.3	104	0.2	9.3	5.5	505	3.09	5	2.6	6.1	116	0.1	<0.1	<0.1	32	0.27	0.047	22.9
IMA 1770	Pulp	1.1	7.8	19.7	59	<0.1	5.4	3.5	424	2.35	3	1.4	5.7	244	0.1	<0.1	<0.1	14	0.88	0.030	41.3
IMA 1771	Pulp	1.1	6.1	4.5	37	0.3	12.3	5.5	124	1.14	2	1.5	1.8	193	<0.1	<0.1	0.1	19	0.34	0.025	6.2
IMA 1772	Pulp	0.6	5.8	3.3	27	<0.1	11.1	3.6	279	1.12	1	0.8	1.5	159	<0.1	<0.1	<0.1	24	0.66	0.025	5.6
IMA 1773	Pulp	0.6	28.8	8.0	17	<0.1	8.3	2.4	122	0.76	<1	1.1	1.9	243	<0.1	<0.1	0.1	15	0.57	0.013	5.3
IMA 1774	Pulp	0.5	6.7	6.0	29	<0.1	10.7	3.2	174	0.92	1	1.0	2.4	328	<0.1	<0.1	<0.1	19	0.76	0.024	7.2
IMA 1775	Pulp	1.0	7.1	3.9	23	0.2	12.7	3.5	122	0.89	1	0.9	1.1	111	<0.1	<0.1	0.1	14	0.31	0.017	3.4
IMA 1776	Pulp	0.3	28.1	3.2	63	0.1	125.8	27.2	710	3.83	2	0.3	1.1	255	<0.1	0.2	0.2	90	3.97	0.034	8.1
IMA 1777	Pulp	0.5	10.8	8.8	48	<0.1	13.0	4.1	207	0.97	<1	0.6	1.6	298	<0.1	<0.1	<0.1	22	0.92	0.024	5.0
IMA 1778	Pulp	0.4	17.1	13.1	36	<0.1	11.6	3.7	140	1.00	1	0.7	1.5	291	<0.1	<0.1	<0.1	21	0.82	0.024	10.1
IMA 1779	Pulp	0.6	6.7	10.1	43	<0.1	12.0	3.4	150	1.02	1	0.7	1.3	493	<0.1	<0.1	<0.1	22	0.95	0.021	4.9
IMA 1780	Pulp	0.6	5.1	7.8	48	<0.1	12.6	4.0	196	1.02	<1	0.6	1.3	369	<0.1	<0.1	<0.1	21	0.61	0.024	3.9
IMA 1781	Pulp	0.2	12.7	4.3	48	0.1	17.4	6.5	239	1.46	1	1.5	3.6	205	0.1	<0.1	0.2	34	0.59	0.036	13.6
IMA 1782	Pulp	0.6	10.4	10.1	36	<0.1	8.8	2.5	147	0.84	<1	1.1	1.6	357	<0.1	<0.1	<0.1	15	0.70	0.017	4.4
IMA 1783	Pulp	1.1	111.4	3.9	23	0.2	46.7	35.1	1442	6.36	<1	0.4	1.8	219	0.1	0.3	0.3	83	3.33	0.055	12.0
IMA 1784	Pulp	0.6	89.7	3.7	93	0.2	172.0	56.2	2925	8.55	2	<0.1	0.2	145	<0.1	0.2	<0.1	285	4.64	0.029	2.6
IMA 1785	Pulp	1.0	23.2	3.7	64	<0.1	24.2	8.8	3154	10.79	2	0.5	1.8	76	0.1	0.5	<0.1	56	4.49	0.033	11.0
IMA 1786	Pulp	0.8	66.7	289.6	346	0.6	27.3	16.8	1527	6.93	19	0.4	1.4	64	1.9	0.8	0.5	98	1.19	0.036	8.2
IMA 1787	Pulp	1.1	76.2	8.9	44	0.3	10.2	17.9	1007	3.06	2	0.8	2.9	52	<0.1	<0.1	0.1	9	0.65	0.017	18.6
IMA 1788	Pulp	0.9	321.7	7.9	105	1.2	54.1	46.3	2400	11.06	<1	0.5	1.9	66	0.1	0.3	0.4	37	4.58	0.033	11.1
IMA 1789	Pulp	1.0	44.1	2.7	525	0.1	46.8	16.5	1692	5.99	1	0.5	1.7	82	1.2	0.1	<0.1	75	1.98	0.053	11.5
IMA 1790	Pulp	0.9	5.5	2.9	34	<0.1	20.8	7.9	941	1.75	2	0.4	1.5	134	<0.1	<0.1	<0.1	47	1.82	0.033	12.5
IMA 1791	Pulp	0.6	25.0	1.3	65	<0.1	7.4	2.1	2691	13.61	3	<0.1	<0.1	5	<0.1	0.2	0.1	7	0.24	0.031	0.8
IMA 1792	Pulp	0.7	10.5	1.4	28	<0.1	10.7	2.2	1035	4.68	2	<0.1	<0.1	5	<0.1	0.2	<0.1	4	0.50	0.005	1.0
IMA 1793	Pulp	1.8	13.4	1.2	93	<0.1	6.9	1.3	2484	10.76	2	<0.1	<0.1	3	<0.1	0.2	<0.1	3	0.11	0.016	1.3
IMA 1794	Pulp	1.4	38.3	1.2	100	0.1	11.6	3.6	673	2.89	<1	<0.1	<0.1	6	0.2	<0.1	<0.1	3	0.49	0.004	0.8
IMA 1795	Pulp	0.6	6.4	3.5	39	<0.1	14.9	3.6	1782	15.28	2	<0.1	<0.1	6	<0.1	1.4	<0.1	3	2.82	0.031	1.6
IMA 1796	Pulp	0.7	41.1	1050.3	3358	0.4	14.4	4.6	2764	12.02	4	<0.1	<0.1	7	12.6	0.8	<0.1	6	1.64	0.024	1.4



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

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

Project: None Given
Report Date: January 26, 2016

Page: 3 of 4

Part: 2 of 3

CERTIFICATE OF ANALYSIS

VAN16000153.1

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	
IMA 1767	Pulp	1458	8.73	163	0.249	4.92	0.792	0.24	0.3	40.9	16	1.0	10.5	1.7	0.1	<1	22	28.4	0.7	9.2	1.4
IMA 1768	Pulp	100	4.29	141	0.834	6.76	0.226	3.22	2.1	66.9	117	4.2	47.4	9.4	0.4	2	39	167.2	<0.1	80.5	2.2
IMA 1769	Pulp	240	0.48	2559	0.243	7.90	3.688	4.68	0.4	236.1	34	1.4	27.3	9.8	0.3	<1	9	23.1	<0.1	100.1	5.0
IMA 1770	Pulp	146	0.39	2809	0.259	7.66	3.668	3.87	0.3	217.2	83	1.2	23.6	11.3	0.4	2	11	13.7	<0.1	95.3	4.6
IMA 1771	Pulp	150	0.22	167	0.068	5.43	4.963	0.42	2.8	58.5	13	0.8	2.2	1.5	<0.1	<1	2	6.7	0.4	13.1	1.9
IMA 1772	Pulp	123	0.38	598	0.105	6.12	4.197	1.79	0.6	63.1	12	1.0	2.4	1.8	<0.1	1	2	10.7	<0.1	49.2	1.8
IMA 1773	Pulp	100	0.21	585	0.068	6.28	3.473	3.00	0.3	50.3	11	0.7	1.9	1.8	0.1	<1	1	5.3	<0.1	95.2	1.9
IMA 1774	Pulp	103	0.30	731	0.114	6.81	4.023	2.21	0.4	74.4	15	0.9	2.8	2.0	0.1	2	2	7.1	<0.1	54.7	2.4
IMA 1775	Pulp	140	0.22	180	0.051	3.63	2.774	0.78	1.5	37.0	7	0.6	1.6	1.1	<0.1	<1	2	5.3	0.2	21.8	1.2
IMA 1776	Pulp	199	3.03	37	0.248	7.16	3.032	0.08	0.1	61.3	17	0.6	6.5	1.9	0.1	<1	17	32.0	<0.1	1.5	1.6
IMA 1777	Pulp	106	0.44	827	0.106	6.91	3.859	2.28	0.2	56.3	13	0.7	2.5	1.9	<0.1	2	2	8.5	<0.1	59.1	1.7
IMA 1778	Pulp	99	0.38	696	0.094	6.95	3.961	2.19	0.2	56.6	18	0.9	2.0	1.7	<0.1	2	2	13.1	<0.1	59.2	1.9
IMA 1779	Pulp	131	0.34	756	0.105	7.00	3.582	2.37	0.1	54.1	11	0.9	2.3	1.7	<0.1	2	2	9.9	<0.1	59.5	1.8
IMA 1780	Pulp	116	0.41	653	0.094	6.72	3.774	2.26	0.6	55.1	10	0.8	1.7	1.6	<0.1	1	2	14.6	<0.1	52.6	1.8
IMA 1781	Pulp	51	0.61	389	0.128	7.03	3.861	1.79	0.9	105.7	27	0.7	5.2	2.2	0.2	2	4	29.9	<0.1	62.0	2.8
IMA 1782	Pulp	101	0.30	574	0.079	6.60	3.585	2.29	0.1	54.8	10	0.8	1.8	1.8	<0.1	2	1	8.4	<0.1	80.0	2.1
IMA 1783	Pulp	121	1.41	331	0.308	7.58	2.360	1.32	0.5	125.0	28	1.4	13.5	4.8	0.3	<1	11	28.1	1.1	35.0	2.9
IMA 1784	Pulp	350	3.13	231	0.571	8.09	1.922	1.02	0.5	25.4	7	0.6	14.3	2.5	0.1	<1	36	28.8	<0.1	13.0	0.7
IMA 1785	Pulp	71	2.04	134	0.217	6.70	0.344	0.62	0.2	96.9	22	0.7	11.9	3.4	0.2	1	7	47.7	0.3	20.3	2.5
IMA 1786	Pulp	83	1.70	300	0.301	6.61	1.192	1.61	0.5	88.6	17	2.3	9.6	3.2	0.2	<1	12	36.0	0.4	50.9	2.2
IMA 1787	Pulp	96	1.00	347	0.084	5.42	1.001	2.22	0.2	90.5	38	0.7	10.9	3.8	0.3	<1	3	29.2	0.3	80.3	2.6
IMA 1788	Pulp	123	2.04	110	0.175	5.10	0.499	0.75	0.3	92.4	23	7.8	12.4	3.2	0.3	<1	7	8.4	2.3	25.5	2.4
IMA 1789	Pulp	67	1.44	207	0.273	7.69	0.987	1.46	0.4	110.4	27	1.6	11.5	4.1	0.3	<1	8	45.3	0.2	39.4	2.7
IMA 1790	Pulp	106	0.87	308	0.194	6.52	2.343	1.45	0.4	106.0	28	0.6	8.5	3.2	0.2	<1	10	22.7	<0.1	37.9	2.4
IMA 1791	Pulp	138	0.84	8	0.014	0.17	0.026	0.04	1.0	4.1	2	0.8	2.7	0.3	<0.1	<1	<1	0.3	0.3	1.7	<0.1
IMA 1792	Pulp	181	0.28	7	0.006	0.14	0.017	0.02	0.2	2.0	2	0.3	2.1	0.2	<0.1	<1	<1	0.7	0.2	1.1	<0.1
IMA 1793	Pulp	110	0.94	6	0.005	0.16	0.024	0.05	0.2	2.0	3	0.6	1.7	0.2	<0.1	<1	<1	0.8	<0.1	2.9	<0.1
IMA 1794	Pulp	250	0.39	4	0.005	0.17	0.013	0.03	0.1	1.7	1	0.8	1.4	0.2	<0.1	<1	<1	0.4	0.1	1.8	<0.1
IMA 1795	Pulp	169	1.33	3	0.003	0.10	0.023	0.04	0.3	1.5	3	0.7	4.4	0.2	<0.1	1	<1	0.5	0.7	2.8	<0.1
IMA 1796	Pulp	118	1.10	4	0.007	0.17	0.016	0.06	0.2	3.6	3	0.7	3.9	0.3	<0.1	<1	1	0.3	0.8	4.3	<0.1



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9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

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

Project: None Given
 Report Date: January 26, 2016

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Part: 3 of 3

CERTIFICATE OF ANALYSIS

VAN16000153.1

Method	Analyte	Unit	MA200	MA200	MA200	MA200	MA200
			In	Re	Se	Te	TI
MDL			ppm	ppm	ppm	ppm	ppm
			0.05	0.005	1	0.5	0.5
IMA 1767	Pulp		0.07	<0.005	1	0.7	<0.5
IMA 1768	Pulp		0.30	<0.005	<1	<0.5	<0.5
IMA 1769	Pulp		<0.05	<0.005	<1	<0.5	0.6
IMA 1770	Pulp		0.07	<0.005	<1	<0.5	0.5
IMA 1771	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA 1772	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA 1773	Pulp		0.06	<0.005	<1	<0.5	0.6
IMA 1774	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA 1775	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA 1776	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA 1777	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA 1778	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA 1779	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA 1780	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA 1781	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA 1782	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA 1783	Pulp		<0.05	<0.005	1	<0.5	<0.5
IMA 1784	Pulp		0.07	<0.005	<1	<0.5	<0.5
IMA 1785	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA 1786	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA 1787	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA 1788	Pulp		0.31	<0.005	4	0.5	<0.5
IMA 1789	Pulp		0.07	<0.005	<1	<0.5	<0.5
IMA 1790	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA 1791	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA 1792	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA 1793	Pulp		0.05	<0.005	<1	<0.5	<0.5
IMA 1794	Pulp		0.06	<0.005	<1	<0.5	<0.5
IMA 1795	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA 1796	Pulp		<0.05	<0.005	<1	<0.5	<0.5



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9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

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

Project: None Given
Report Date: January 26, 2016

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Part: 1 of 3

CERTIFICATE OF ANALYSIS

VAN16000153.1

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	
IMA 1797	Pulp	3.3	2343.4	162.3	2411	5.2	25.0	18.1	655	6.25	3	0.2	0.6	8	6.1	0.3	0.9	25	0.15	0.017	3.2
IMA 1798	Pulp	0.4	153.1	10.9	130	0.1	132.5	47.1	1413	7.87	3	<0.1	0.2	144	0.3	0.4	<0.1	236	7.04	0.022	2.4
IMA 1799	Pulp	1.4	44.6	196.1	323	0.9	48.1	24.1	794	4.58	11	0.5	2.2	218	0.6	0.2	0.5	82	2.59	0.076	13.6
IMA 1800	Pulp	0.4	26.9	5.3	70	0.1	121.3	43.3	1226	5.12	<1	<0.1	0.2	160	<0.1	0.2	<0.1	133	4.99	0.016	1.6
IMA 1801	Pulp	0.4	10.2	12.2	49	<0.1	15.3	6.1	308	1.50	1	0.8	2.1	508	0.1	<0.1	<0.1	33	1.33	0.036	7.7
IMA 1802	Pulp	0.4	113.6	2.5	41	<0.1	30.2	8.8	759	2.70	2	0.7	2.3	83	0.1	<0.1	<0.1	70	0.67	0.057	9.4
IMA 1803	Pulp	0.5	12.9	11.1	70	<0.1	17.5	7.3	306	1.51	2	1.2	2.2	373	<0.1	<0.1	<0.1	35	0.98	0.034	6.8
IMA 1804	Pulp	5.0	85.2	347.3	380	0.4	47.8	71.2	1714	8.13	13	1.0	1.8	137	1.6	0.4	<0.1	53	1.12	0.043	26.2
IMA 1805	Pulp	0.7	7.5	43.4	91	<0.1	30.2	8.3	840	2.22	1	0.4	1.7	171	0.2	<0.1	<0.1	57	1.30	0.035	9.9
IMA 1806	Pulp	2.8	204.3	4.2	67	0.2	35.9	40.5	1483	8.85	2	0.2	0.8	156	<0.1	0.2	0.3	278	5.82	0.051	6.3
IMA 1807	Pulp	4.6	60.0	3.6	69	0.1	37.5	49.6	1880	10.73	2	0.2	0.8	140	<0.1	0.1	0.4	471	5.24	0.065	6.7
IMA 1808	Pulp	0.3	74.9	1.7	94	<0.1	172.5	54.7	1667	8.40	2	<0.1	0.3	142	<0.1	0.1	<0.1	285	5.72	0.028	2.9
IMA 1809	Pulp	1.5	115.7	7.8	94	0.1	23.6	44.8	1697	10.65	<1	0.3	1.1	128	<0.1	0.3	1.1	382	6.06	0.080	12.1
IMA 1810	Pulp	1.1	89.8	2.7	60	<0.1	74.3	37.6	1162	6.02	2	<0.1	0.3	140	0.1	0.1	0.2	185	7.53	0.021	3.5
IMA 1811	Pulp	1.0	25.9	6.3	41	<0.1	107.2	37.2	1153	4.41	<1	<0.1	0.1	176	<0.1	<0.1	<0.1	117	4.51	0.011	1.6
IMA 1812	Pulp	1.3	3.3	7.0	26	<0.1	30.6	14.3	768	3.51	<1	0.6	2.1	175	<0.1	<0.1	<0.1	65	2.55	0.039	9.3
IMA 1813	Pulp	0.2	53.7	13.1	54	<0.1	69.7	35.7	846	5.62	2	<0.1	0.3	75	<0.1	0.3	0.1	169	5.26	0.019	4.2
IMA 1814	Pulp	0.4	59.7	9.7	81	0.2	115.3	33.3	1313	5.42	2	0.7	3.0	182	0.2	0.2	<0.1	155	4.82	0.046	14.1
IMA 1815	Pulp	0.8	275.8	4.5	413	0.3	34.5	19.8	5196	27.29	2	<0.1	0.2	11	0.4	0.4	0.5	9	0.83	0.053	1.3
IMA 1816	Pulp	4.8	2656.0	5233.2	>10000	14.7	131.2	146.8	318	5.65	133	0.2	0.3	3	48.5	1.4	0.6	19	0.12	0.023	1.5
IMA 1817	Pulp	1.3	9.3	19.7	69	0.1	12.1	7.6	647	3.45	1	1.4	5.7	318	0.3	0.1	<0.1	64	1.68	0.093	21.7



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

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

Project: None Given
Report Date: January 26, 2016

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CERTIFICATE OF ANALYSIS

VAN16000153.1

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	
IMA 1797	Pulp	175	0.59	150	0.041	1.57	0.098	0.31	0.5	31.3	6	7.1	2.8	0.8	<0.1	<1	4	13.3	1.1	12.3	0.8
IMA 1798	Pulp	284	4.63	47	0.475	7.80	1.298	0.20	0.2	28.8	7	0.6	16.1	1.8	0.1	<1	36	14.8	<0.1	8.1	1.0
IMA 1799	Pulp	98	1.42	488	0.451	7.68	3.065	1.48	0.2	142.5	32	0.5	14.9	6.5	0.4	<1	10	37.2	<0.1	52.8	3.7
IMA 1800	Pulp	493	5.99	547	0.093	7.44	0.891	2.41	<0.1	16.7	4	0.2	10.4	0.4	<0.1	<1	25	43.3	<0.1	78.2	0.5
IMA 1801	Pulp	95	0.69	896	0.150	7.22	3.542	2.36	0.2	82.9	18	0.9	4.2	2.3	0.1	2	3	12.4	<0.1	69.9	2.3
IMA 1802	Pulp	74	1.13	840	0.326	8.61	3.986	4.42	0.6	127.0	23	1.3	10.0	5.0	0.4	2	8	17.5	<0.1	143.1	3.1
IMA 1803	Pulp	109	0.71	967	0.158	7.22	3.751	2.50	0.7	88.7	16	1.0	4.2	2.4	0.1	2	4	21.1	<0.1	58.8	2.6
IMA 1804	Pulp	73	1.61	308	0.213	7.46	2.589	1.02	0.2	113.3	45	0.6	11.5	3.8	0.3	<1	6	40.0	0.1	40.1	2.7
IMA 1805	Pulp	92	0.97	612	0.230	7.18	3.315	1.76	0.3	106.9	22	0.4	9.4	3.7	0.2	<1	6	15.3	<0.1	69.6	2.6
IMA 1806	Pulp	61	2.63	93	0.674	7.16	1.449	0.55	0.8	68.5	19	0.6	50.2	5.8	0.3	<1	39	18.8	0.6	29.7	1.9
IMA 1807	Pulp	49	2.89	144	0.952	7.49	1.788	0.76	0.4	91.5	19	0.8	41.5	7.0	0.4	<1	49	22.6	0.3	36.6	2.6
IMA 1808	Pulp	282	5.52	84	0.478	8.75	1.875	0.30	0.2	28.4	8	0.6	20.9	1.8	0.1	<1	45	39.1	<0.1	9.4	1.2
IMA 1809	Pulp	65	1.93	69	0.935	6.97	1.221	0.41	0.9	106.1	31	1.0	60.1	8.5	0.5	<1	43	10.2	0.5	14.2	2.8
IMA 1810	Pulp	233	4.09	84	0.315	8.62	1.772	0.61	0.3	23.4	8	0.6	15.8	1.8	0.1	<1	38	17.5	<0.1	32.8	0.7
IMA 1811	Pulp	538	5.49	486	0.167	9.38	1.878	2.07	0.1	15.9	4	0.3	8.6	0.9	<0.1	<1	23	62.7	<0.1	58.5	0.5
IMA 1812	Pulp	79	1.58	415	0.257	8.29	1.403	2.42	0.2	104.9	21	0.5	7.3	3.0	0.3	<1	8	50.7	<0.1	91.5	2.9
IMA 1813	Pulp	182	4.19	67	0.206	8.23	1.286	1.14	0.3	21.2	10	0.5	11.4	1.6	<0.1	<1	34	81.9	0.1	42.4	0.6
IMA 1814	Pulp	224	4.41	354	0.320	8.35	3.852	1.07	0.4	65.4	31	0.7	13.1	2.6	0.2	<1	27	30.0	<0.1	41.9	1.7
IMA 1815	Pulp	59	2.78	7	0.014	0.38	0.056	0.10	0.6	5.1	3	3.4	7.9	0.4	<0.1	1	<1	0.6	2.1	5.4	0.1
IMA 1816	Pulp	211	0.60	7	0.021	0.75	0.018	0.03	0.6	10.5	4	4.6	4.8	0.5	<0.1	1	4	12.8	4.7	1.2	0.2
IMA 1817	Pulp	41	0.69	820	0.395	6.73	1.926	2.09	0.3	193.2	69	1.5	24.7	9.6	0.5	1	10	11.1	<0.1	49.7	5.5



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

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

Project: None Given
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Part: 3 of 3

CERTIFICATE OF ANALYSIS

VAN16000153.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200
		In	Re	Se	Te	TI
Unit		ppm	ppm	ppm	ppm	ppm
MDL		0.05	0.005	1	0.5	0.5
IMA 1797	Pulp	0.75	<0.005	6	1.9	0.6
IMA 1798	Pulp	0.07	<0.005	<1	<0.5	<0.5
IMA 1799	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 1800	Pulp	<0.05	<0.005	<1	0.7	0.7
IMA 1801	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 1802	Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA 1803	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 1804	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 1805	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 1806	Pulp	0.07	0.006	1	<0.5	<0.5
IMA 1807	Pulp	0.09	<0.005	<1	<0.5	<0.5
IMA 1808	Pulp	<0.05	<0.005	<1	0.6	<0.5
IMA 1809	Pulp	0.16	<0.005	<1	<0.5	<0.5
IMA 1810	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 1811	Pulp	<0.05	<0.005	<1	0.5	<0.5
IMA 1812	Pulp	0.05	<0.005	<1	<0.5	0.6
IMA 1813	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 1814	Pulp	<0.05	<0.005	<1	0.6	<0.5
IMA 1815	Pulp	0.28	<0.005	2	0.8	<0.5
IMA 1816	Pulp	0.65	<0.005	14	3.9	<0.5
IMA 1817	Pulp	0.08	<0.005	<1	<0.5	<0.5



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

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

Project: None Given
Report Date: January 26, 2016

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QUALITY CONTROL REPORT

VAN16000153.1

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																					
IMA 1770	Pulp	1.1	7.8	19.7	59	<0.1	5.4	3.5	424	2.35	3	1.4	5.7	244	0.1	<0.1	<0.1	14	0.88	0.030	41.3
REP IMA 1770	QC	1.0	7.6	19.4	56	0.1	5.7	3.7	432	2.43	3	1.2	5.6	225	0.2	<0.1	<0.1	14	0.92	0.028	40.4
IMA 1806	Pulp	2.8	204.3	4.2	67	0.2	35.9	40.5	1483	8.85	2	0.2	0.8	156	<0.1	0.2	0.3	278	5.82	0.051	6.3
REP IMA 1806	QC	3.1	205.5	4.4	68	0.2	37.7	40.1	1486	8.89	1	0.2	0.8	160	0.1	0.3	0.3	279	5.92	0.053	6.7
IMA 1817	Pulp	1.3	9.3	19.7	69	0.1	12.1	7.6	647	3.45	1	1.4	5.7	318	0.3	0.1	<0.1	64	1.68	0.093	21.7
REP IMA 1817	QC	1.3	8.9	18.1	69	0.1	11.6	8.1	604	3.31	2	1.4	5.2	303	0.2	<0.1	<0.1	66	1.58	0.089	20.4
Reference Materials																					
STD OREAS25A-4A	Standard	2.4	33.9	26.3	46	0.2	49.8	8.6	512	6.77	10	2.9	15.9	48	0.1	0.7	0.4	164	0.27	0.051	23.1
STD OREAS25A-4A	Standard	2.9	40.8	28.2	49	<0.1	52.6	8.7	536	7.24	12	3.1	16.6	52	0.2	0.7	0.4	180	0.31	0.055	22.7
STD OREAS25A-4A	Standard	2.3	36.7	25.4	45	<0.1	48.8	7.5	526	6.66	9	2.8	15.9	49	<0.1	0.6	0.4	163	0.30	0.050	23.3
STD OREAS45E	Standard	2.2	820.1	17.9	43	0.4	491.4	59.5	588	24.98	17	2.4	12.6	17	<0.1	1.0	0.3	332	0.06	0.034	10.9
STD OREAS45E	Standard	2.6	832.7	21.0	48	0.3	509.1	63.7	606	26.33	17	2.7	13.7	17	<0.1	1.2	0.4	349	0.08	0.034	10.6
STD OREAS45E	Standard	2.7	821.1	19.8	50	0.3	501.5	61.7	604	25.98	16	2.6	13.9	18	0.1	1.0	0.3	343	0.06	0.035	11.5
STD OREAS25A-4A		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	0.3	0.1	<1	<0.1	<0.1	<0.2	4	<0.01	<1	<0.1	<0.1	<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	<1	<0.01	<0.001	<0.1	
BLK	Blank	<0.1	0.5	0.1	<1	<0.1	<0.1	<0.2	2	<0.01	1	<0.1	<0.1	<1	<0.1	<0.1	<1	<0.01	<0.001	<0.1	



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

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

Project: None Given
Report Date: January 26, 2016

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QUALITY CONTROL REPORT VAN16000153.1

Method	MA200	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																					
IMA 1770	Pulp	146	0.39	2809	0.259	7.66	3.668	3.87	0.3	217.2	83	1.2	23.6	11.3	0.4	2	11	13.7	<0.1	95.3	4.6
REP IMA 1770	QC	142	0.36	2788	0.254	7.84	3.674	3.54	0.2	223.4	81	1.3	22.8	11.6	0.4	2	11	13.6	<0.1	89.8	4.7
IMA 1806	Pulp	61	2.63	93	0.674	7.16	1.449	0.55	0.8	68.5	19	0.6	50.2	5.8	0.3	<1	39	18.8	0.6	29.7	1.9
REP IMA 1806	QC	70	2.65	102	0.659	7.24	1.482	0.58	0.8	73.3	19	0.7	51.7	6.3	0.4	<1	39	19.8	0.6	32.2	2.3
IMA 1817	Pulp	41	0.69	820	0.395	6.73	1.926	2.09	0.3	193.2	69	1.5	24.7	9.6	0.5	1	10	11.1	<0.1	49.7	5.5
REP IMA 1817	QC	40	0.66	805	0.394	6.24	1.841	2.01	0.3	205.4	62	1.8	23.6	9.7	0.5	2	9	9.7	<0.1	45.5	5.7
Reference Materials																					
STD OREAS25A-4A	Standard	123	0.34	151	0.982	9.17	0.142	0.51	2.0	153.1	51	4.1	10.9	19.6	1.4	<1	14	40.0	<0.1	60.7	4.2
STD OREAS25A-4A	Standard	132	0.35	162	1.080	9.69	0.159	0.56	2.2	175.6	53	4.4	11.7	23.4	1.6	1	14	40.9	<0.1	63.1	4.7
STD OREAS25A-4A	Standard	126	0.34	148	0.928	9.06	0.133	0.53	1.8	146.3	52	3.8	10.4	18.9	1.3	<1	13	36.7	<0.1	59.7	3.9
STD OREAS45E	Standard	1040	0.16	252	0.535	6.96	0.056	0.34	0.9	93.7	24	1.4	8.2	6.1	0.5	<1	99	6.9	<0.1	21.1	2.8
STD OREAS45E	Standard	1065	0.17	279	0.580	7.28	0.062	0.37	1.1	107.2	24	1.6	8.3	6.6	0.6	<1	100	7.8	<0.1	22.7	3.5
STD OREAS45E	Standard	1056	0.17	253	0.551	7.23	0.054	0.37	1.1	97.9	25	1.3	8.3	6.4	0.5	<1	101	7.0	<0.1	21.6	3.3
STD OREAS25A-4A		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	3	<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	0.2	<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	2	<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

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 Commodities Canada Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Project: None Given
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QUALITY CONTROL REPORT

VAN16000153.1

Method	Analyte	Unit	MA200	MA200	MA200	MA200	MA200
			In	Re	Se	Te	TI
MDL			ppm	ppm	ppm	ppm	ppm
			0.05	0.005	1	0.5	0.5
Pulp Duplicates							
IMA 1770	Pulp		0.07	<0.005	<1	<0.5	0.5
REP IMA 1770	QC		<0.05	<0.005	<1	<0.5	0.6
IMA 1806	Pulp		0.07	0.006	1	<0.5	<0.5
REP IMA 1806	QC		0.07	<0.005	1	<0.5	<0.5
IMA 1817	Pulp		0.08	<0.005	<1	<0.5	<0.5
REP IMA 1817	QC		0.07	<0.005	<1	<0.5	<0.5
Reference Materials							
STD OREAS25A-4A	Standard		0.11	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard		0.08	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard		0.08	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard		0.11	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard		0.07	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard		0.08	<0.005	3	<0.5	<0.5
STD OREAS25A-4A			0.09		2.5		0.35
STD OREAS45E Expected			0.099		2.97	0.1	0.09
BLK	Blank		<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank		<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank		<0.05	<0.005	<1	<0.5	<0.5

Appendix III

Cost Receipts