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Sampling – Prospecting Report

Cardiff Township, Ontario

For

Skead Holdings Ltd.

By

R.A. MacGregor, P. Eng.

May 9, 2016

2-56829

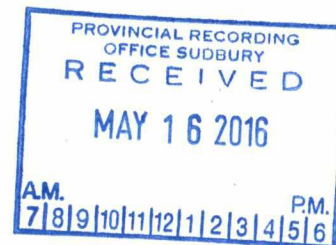


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Summary

One day was spent collecting rock samples in an area which had previously been underwater but was exposed by a drop in the level of a beaver dam. One stream sediment and one soil sample were also collected.

Location

The area is in Cardiff Township in the area of the Adanac forest access road which connects with Hwy 118 about 20 km west of Bancroft, Ontario.

Previous Exploration

Prospecting and a Scintilometer survey have been carried out in the area. It was also explored for uranium in the 1950's, but not all records remain.

Work Program

The lowering of the water level in a now abandoned beaver pond exposed outcrops which had formerly been underwater. Sampling and prospecting were carried out in the area. A stream sediment sample and one soil sample were also collected and analysed for a suite of elements.

Results and Conclusions

The rock samples showed nothing of interest, however both the stream sediment sample and soil sample were anomalous in uranium and thorium.

Some further soil sampling is indicated.

Respectfully submitted

A handwritten signature in cursive script, appearing to read 'R. MacGregor', written in dark ink.

R.A. MacGregor, P. Eng.

May 9, 2016

Analysed Samples

Sample No.	Assay No.	Sample Type
49187	AMA 23	Rock
49188	AMA 22	Rock
49189	AMA 21	Rock
49190	AMA 20	Rock
49191	AMA 24	Rock
9498	AMA 25	Rock
9499	AMA 27	Rock
9500	AMA 26	Rock
49192	AMA 544	-80 mesh stream sediment
49884	IMA 3035	-80 mesh soil

Appendix I

Maps

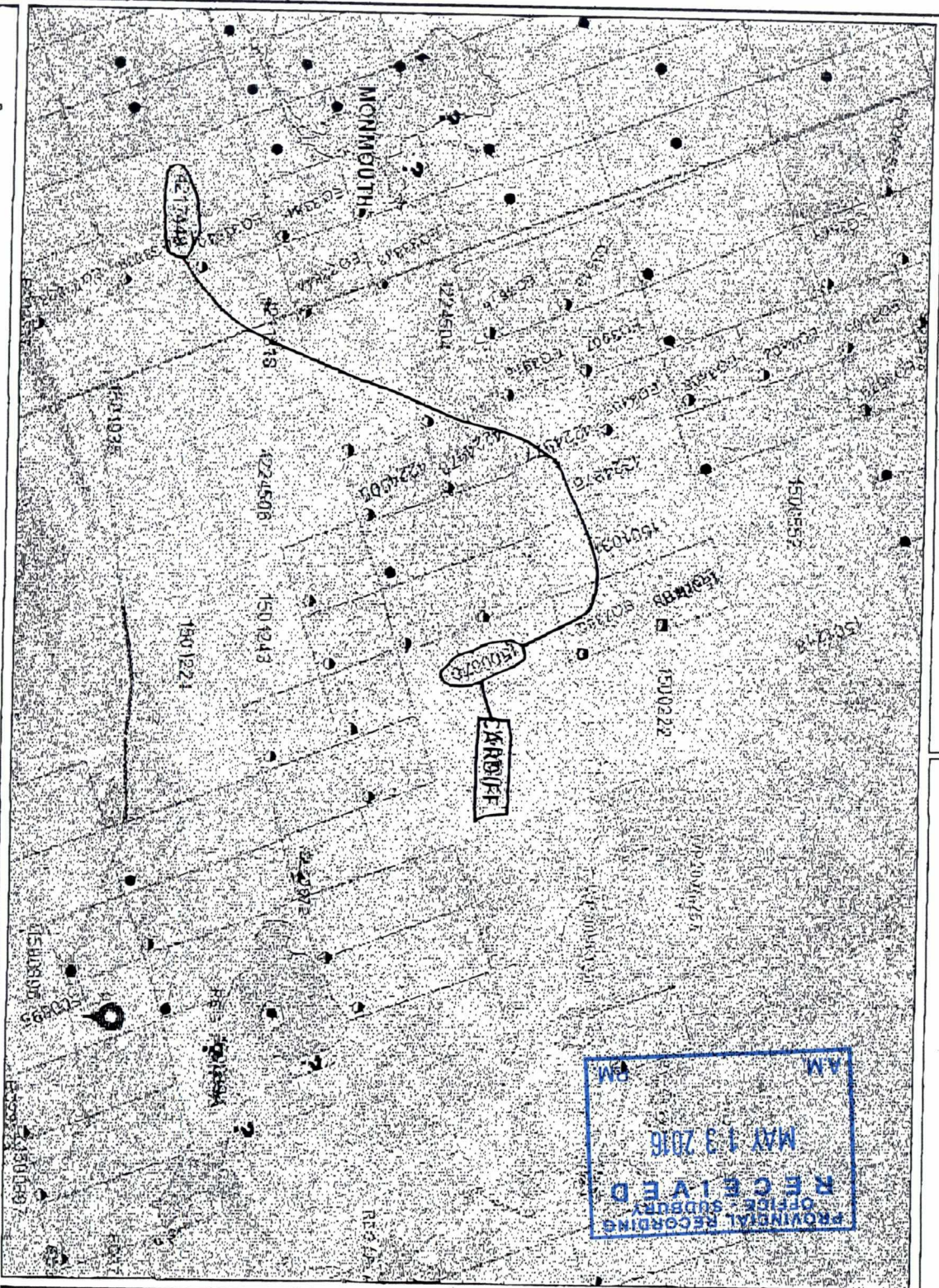




MINISTRY OF NORTHERN DEVELOPMENT AND MINES
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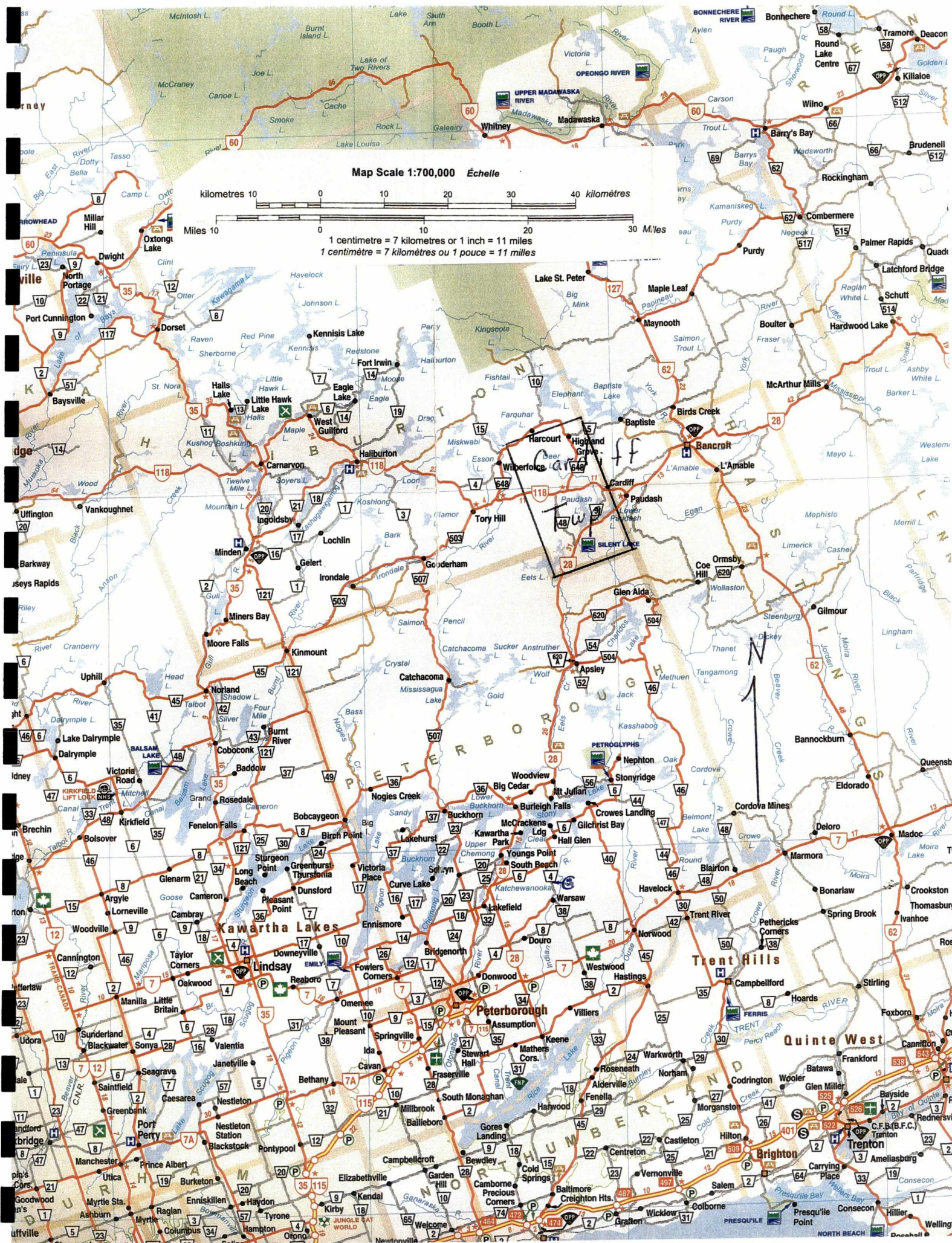
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- Administration Boundaries
 - Water Division
 - Regional District
 - Local Government
 - Unincorporated Areas
- Mineral Tenure Grid
 - Ontario Tenure Grid
- Attention
 - Watermark
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- Unpublished Claim
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 - 5. Freehold Patent Surface and Mining Rights
 - 6. Leasehold Patent Surface and Mining Rights
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- Geology Layers
 - AMS Sites
 - AMS Features
 - Drill Holes
 - Vertical Coordinates

work done
work applied

15-23

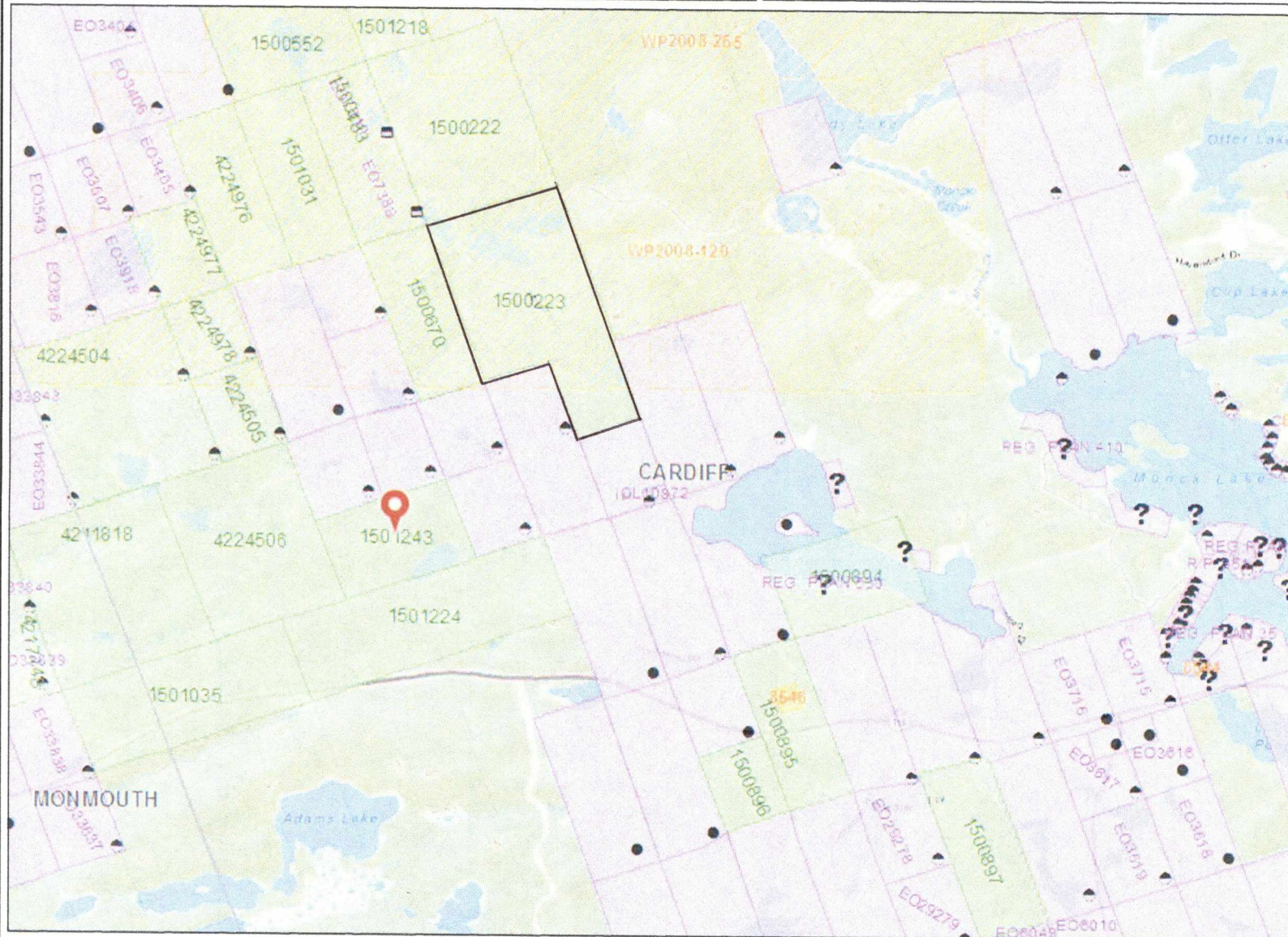
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Map Scale 1:700,000 Échelle

kilometres 10 0 10 20 30 40 kilometres
Miles 10 0 10 20 30 Miles

1 centimetre = 7 kilometres or 1 inch = 11 miles
1 centimetre = 7 kilomètres ou 1 pouce = 11 milles



Legend

Administration Boundaries

- Mining Divisions
- Resident Geologist District
- Townships and Areas

Mineral Tenure Grid

- OMTG Tenure Grid

Alienations

- Withdrawal
- Notice

Unpatented Claim

- Active
- Pending

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- 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
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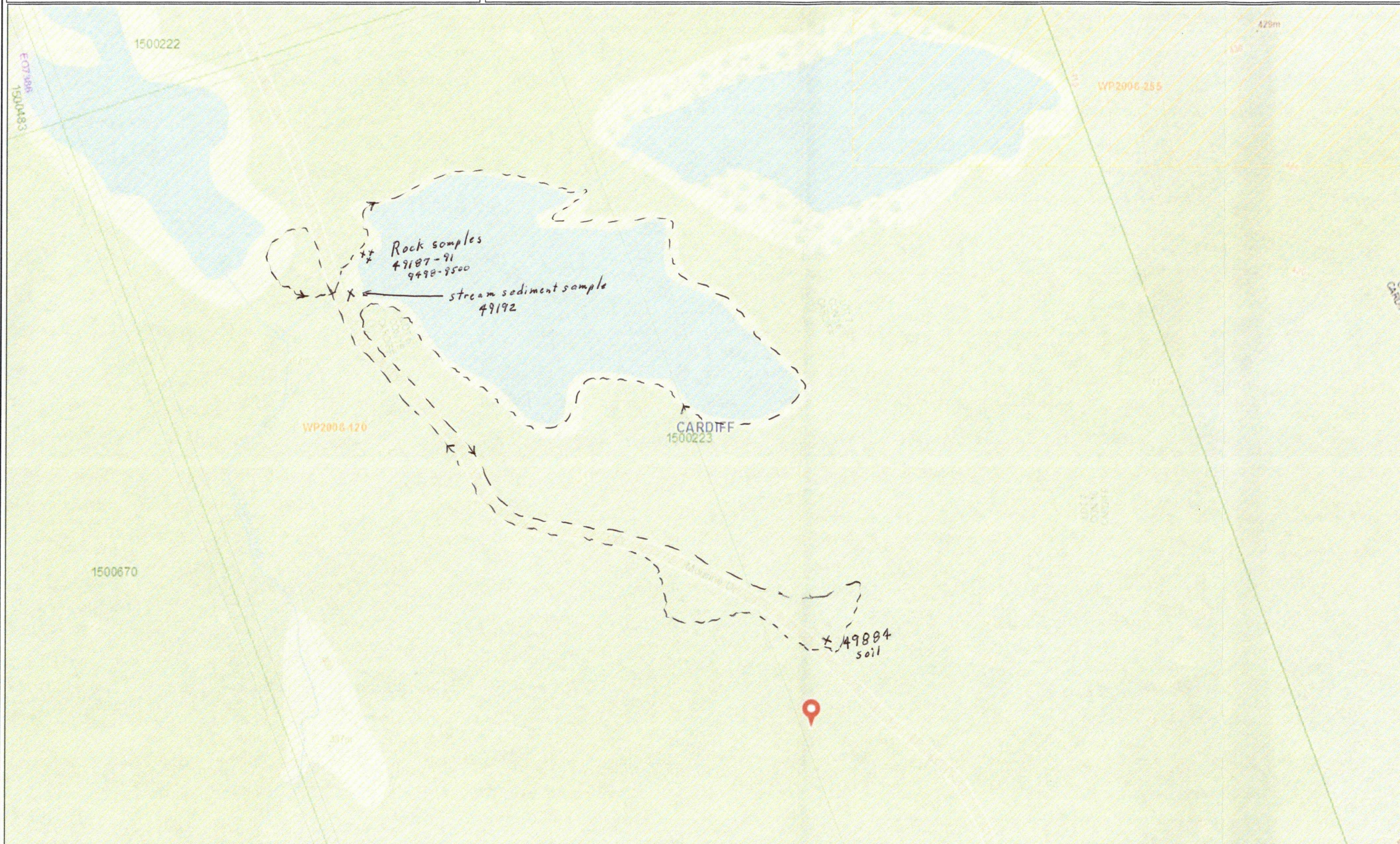


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Geology Layers

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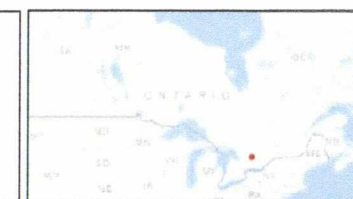
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Appendix II

Certificate of Analysis



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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 3

CERTIFICATE OF ANALYSIS

VAN16000154.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 50

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	50	Sorting, labeling and boxing samples received as pulps			VAN
MA200	50	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
DRPLP	50	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. "a" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Page: 3 of 3

Part: 1 of 3

CERTIFICATE OF ANALYSIS

VAN16000154.1

	Method	Analyte	Unit	MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
					0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001
IMA 3031	Soil Pulp	1.8	130.1	17.0	107	<0.1	18.1	12.2	2299	4.85	3	7.1	14.0	438	0.4	0.1	<0.1	104	3.34	0.150	58.6			
IMA 3032	Soil Pulp	0.6	8.5	17.8	43	<0.1	11.4	7.9	555	3.06	1	2.3	7.3	422	0.2	<0.1	<0.1	62	2.09	0.039	16.6			
IMA 3033	Soil Pulp	0.7	11.8	24.0	127	<0.1	18.3	11.6	629	4.14	3	1.4	4.8	313	0.2	0.2	0.2	102	2.61	0.053	19.0			
IMA 3034	Soil Pulp	1.5	9.5	24.0	119	<0.1	19.0	18.2	2286	6.69	2	7.2	17.1	430	0.4	0.1	<0.1	138	4.33	0.205	54.9			
IMA 3035	Soil Pulp	0.3	5.0	36.1	29	0.1	32.0	17.8	4528	5.85	8	27.5	33.7	140	0.3	0.2	0.3	110	9.26	0.532	79.6			
IMA 3036	Soil Pulp	0.7	9.5	76.9	328	0.2	11.8	8.9	558	2.31	3	2.6	10.3	321	0.3	0.2	0.8	81	4.33	0.227	101.8			
IMA 3037	Soil Pulp	1.1	14.3	15.0	72	<0.1	8.4	7.8	757	3.76	2	3.7	4.1	283	<0.1	<0.1	0.1	43	1.76	0.102	17.9			
IMA 3038	Soil Pulp	0.8	37.3	29.5	146	0.1	28.8	14.0	1234	2.74	5	2.6	8.1	331	0.8	0.4	0.3	68	5.12	0.199	17.7			
IMA 3039	Soil Pulp	0.9	9.1	7.3	119	<0.1	1.4	10.7	1076	6.41	3	0.8	1.4	68	0.2	0.2	<0.1	2	2.35	0.512	16.7			
IMA 3040	Soil Pulp	7.2	79.8	19.2	123	0.1	127.7	23.2	987	6.01	2	4.7	9.1	277	0.2	<0.1	0.2	134	2.49	0.104	38.0			
IMA 3041	Soil Pulp	3.0	13.1	51.5	220	<0.1	17.0	18.3	1835	7.17	6	8.3	12.5	520	0.3	0.2	0.3	79	4.40	0.358	60.6			
IMA 3042	Soil Pulp	1.5	27.3	25.4	141	0.1	104.7	33.8	1599	7.37	2	10.0	13.3	476	0.3	0.2	0.2	186	7.41	0.640	66.3			
IMA 3043	Soil Pulp	1.4	5.5	30.7	112	<0.1	15.5	14.0	1749	5.04	2	5.2	6.9	424	0.2	0.1	0.1	94	3.51	0.165	32.9			
IMA 3044	Soil Pulp	2.6	9.4	29.0	126	0.1	18.4	17.3	2030	6.43	3	6.0	7.5	428	0.4	0.1	0.1	135	4.50	0.193	35.5			
IMA 3045	Soil Pulp	1.5	5.5	19.2	39	<0.1	7.9	5.6	494	2.81	1	1.5	6.0	325	0.2	0.2	<0.1	69	1.47	0.038	19.3			
IMA 3046	Soil Pulp	1.9	3.9	20.3	40	<0.1	6.8	4.0	346	3.90	3	1.6	4.9	260	0.4	0.2	0.1	69	1.08	0.053	14.9			
IMA 3047	Soil Pulp	2.1	7.1	18.7	68	<0.1	10.3	7.9	800	3.81	1	2.0	8.3	318	0.2	0.1	<0.1	80	1.63	0.089	22.1			
IMA 3048	Soil Pulp	2.1	31.6	28.8	139	0.1	20.4	16.2	1346	4.35	3	3.6	7.7	351	0.5	0.2	0.2	84	2.72	0.155	48.2			
IMA 3049	Soil Pulp	0.9	23.4	27.0	58	<0.1	13.7	10.4	705	3.23	2	10.1	33.0	443	0.2	<0.1	<0.1	64	2.50	0.110	34.4			
IMA 3050	Soil Pulp	1.9	6.4	21.9	64	0.1	11.4	7.8	605	3.57	3	1.8	5.4	323	0.2	0.2	<0.1	78	1.64	0.060	23.3			



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					Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf
					ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
					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	0.1	1	1	0.1	0.1	0.1
IMA 3031	Soil Pulp	50	1.23	836	0.875	6.34	2.271	1.95	0.6	411.2	122	9.1	74.8	21.9	1.1	2	16	13.9	<0.1	44.8	11.5			
IMA 3032	Soil Pulp	37	0.76	1003	0.351	7.43	2.481	2.33	0.3	161.6	79	1.5	26.6	9.9	0.5	2	10	9.2	<0.1	52.6	4.4			
IMA 3033	Soil Pulp	45	2.05	955	0.521	6.47	1.666	2.28	0.6	156.9	46	2.2	23.6	13.2	0.8	2	10	86.4	<0.1	61.7	4.1			
IMA 3034	Soil Pulp	68	1.92	671	1.350	6.87	2.419	1.68	1.8	427.3	117	4.9	92.6	34.1	2.0	3	21	22.4	<0.1	41.7	11.5			
IMA 3035	Soil Pulp	32	5.89	102	0.333	4.65	3.315	0.25	0.3	162.0	152	1.8	65.2	3.7	0.2	<1	16	37.2	<0.1	5.8	4.1			
IMA 3036	Soil Pulp	34	4.15	1170	0.459	5.12	1.775	2.38	0.5	87.9	168	1.9	27.0	11.6	0.6	2	9	64.0	<0.1	50.6	2.5			
IMA 3037	Soil Pulp	29	0.64	818	0.527	6.73	2.823	2.08	0.4	134.6	65	1.6	32.3	10.4	0.5	1	9	29.6	<0.1	55.9	3.6			
IMA 3038	Soil Pulp	33	2.44	1178	0.260	4.87	0.891	2.90	0.3	84.5	43	1.7	20.1	6.5	0.4	2	9	67.7	<0.1	65.9	2.4			
IMA 3039	Soil Pulp	6	0.81	647	1.113	7.99	4.118	2.19	0.3	16.3	75	0.7	70.1	6.3	0.3	<1	9	66.7	<0.1	31.1	0.6			
IMA 3040	Soil Pulp	259	2.15	729	0.689	6.77	1.818	1.89	1.8	220.2	106	3.1	53.5	19.4	1.1	1	16	85.2	<0.1	137.8	5.8			
IMA 3041	Soil Pulp	46	1.74	622	0.836	7.24	2.430	1.70	1.6	309.3	126	6.5	139.4	33.4	2.1	5	12	42.8	<0.1	55.0	8.3			
IMA 3042	Soil Pulp	405	5.04	1307	1.029	4.98	1.383	1.93	1.3	190.3	148	4.1	57.4	19.9	1.2	5	34	68.0	<0.1	133.6	5.3			
IMA 3043	Soil Pulp	54	1.46	671	0.806	6.34	2.316	1.56	1.3	262.0	72	12.0	72.7	24.5	1.4	3	17	18.1	<0.1	40.2	7.0			
IMA 3044	Soil Pulp	71	1.90	635	1.030	6.81	2.383	1.69	2.4	350.9	81	5.5	85.8	30.3	1.7	5	21	22.8	<0.1	40.9	10.7			
IMA 3045	Soil Pulp	34	0.52	870	0.496	6.06	1.771	1.87	0.4	170.4	56	2.0	20.2	11.8	0.6	2	8	9.6	<0.1	41.9	4.7			
IMA 3046	Soil Pulp	33	0.34	745	0.469	5.99	1.558	1.70	0.4	206.3	38	1.9	15.3	11.6	0.7	1	6	6.4	<0.1	38.6	6.1			
IMA 3047	Soil Pulp	40	0.61	847	0.461	6.85	1.886	2.02	0.4	225.3	76	1.8	24.5	11.5	0.6	2	10	11.6	<0.1	53.1	6.6			
IMA 3048	Soil Pulp	45	1.12	875	0.523	7.25	1.983	1.91	0.9	169.0	131	2.0	44.5	9.4	0.6	3	11	27.6	<0.1	83.8	5.0			
IMA 3049	Soil Pulp	41	0.86	919	0.442	7.72	2.536	2.16	0.7	204.7	109	2.2	38.0	15.2	0.8	3	10	17.5	<0.1	65.5	5.9			
IMA 3050	Soil Pulp	41	0.61	922	0.493	7.22	1.999	2.23	0.4	203.4	67	2.3	22.1	12.4	0.7	2	9	10.9	<0.1	58.4	6.0			



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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

VAN16000154.1

Method Analyte Unit MDL		MA200	MA200	MA200	MA200	MA200
		In	Re	Se	Te	Tl
		ppm	ppm	ppm	ppm	ppm
		0.05	0.005	1	0.5	0.5
IMA 3031	Soil Pulp	0.09	<0.005	2	<0.5	<0.5
IMA 3032	Soil Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 3033	Soil Pulp	0.06	<0.005	<1	<0.5	<0.5
IMA 3034	Soil Pulp	0.07	<0.005	<1	<0.5	<0.5
IMA 3035	Soil Pulp	0.17	<0.005	<1	3.2	<0.5
IMA 3036	Soil Pulp	0.09	<0.005	<1	1.3	0.6
IMA 3037	Soil Pulp	0.05	<0.005	<1	<0.5	<0.5
IMA 3038	Soil Pulp	<0.05	<0.005	<1	1.1	<0.5
IMA 3039	Soil Pulp	0.07	<0.005	<1	<0.5	<0.5
IMA 3040	Soil Pulp	0.08	<0.005	<1	<0.5	1.6
IMA 3041	Soil Pulp	0.07	<0.005	1	<0.5	0.6
IMA 3042	Soil Pulp	0.15	<0.005	<1	1.0	1.4
IMA 3043	Soil Pulp	0.11	<0.005	1	<0.5	<0.5
IMA 3044	Soil Pulp	0.11	<0.005	<1	<0.5	<0.5
IMA 3045	Soil Pulp	<0.05	<0.005	1	<0.5	<0.5
IMA 3046	Soil Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 3047	Soil Pulp	0.08	<0.005	<1	<0.5	<0.5
IMA 3048	Soil Pulp	<0.05	<0.005	1	<0.5	0.6
IMA 3049	Soil Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 3050	Soil Pulp	<0.05	<0.005	1	<0.5	<0.5



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Project: None Given
Report Date: January 26, 2016

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QUALITY CONTROL REPORT

VAN16000154.1

	Method Analyte Unit MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		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 3017	Soil Pulp	2.2	12.4	21.4	76	0.1	10.0	6.8	474	4.23	2	1.8	5.6	294	0.6	0.1	<0.1	72	1.44	0.059	17.7
REP IMA 3017	QC	2.0	11.8	20.7	72	<0.1	9.9	6.4	451	4.21	2	1.6	4.7	306	0.6	0.1	<0.1	66	1.53	0.058	15.8
IMA 3050	Soil Pulp	1.9	6.4	21.9	64	0.1	11.4	7.8	605	3.57	3	1.8	5.4	323	0.2	0.2	<0.1	78	1.64	0.060	23.3
REP IMA 3050	QC	1.8	6.2	22.3	65	<0.1	10.8	7.6	689	3.59	2	1.8	5.8	332	0.3	0.2	<0.1	80	1.63	0.060	23.8
Reference Materials																					
STD OREAS25A-4A	Standard	2.5	38.2	25.7	42	<0.1	47.3	7.7	501	6.64	11	3.0	17.2	52	<0.1	0.7	0.4	165	0.33	0.049	24.7
STD OREAS25A-4A	Standard	2.4	34.7	26.7	45	<0.1	48.3	7.2	496	6.67	11	2.8	16.5	49	<0.1	0.6	0.4	147	0.34	0.047	25.3
STD OREAS45E	Standard	2.0	758.7	19.4	45	0.3	444.1	54.1	514	22.26	16	2.5	14.0	15	<0.1	1.1	0.3	279	0.07	0.033	11.4
STD OREAS45E	Standard	2.6	795.6	19.3	46	0.3	473.2	57.3	541	24.73	18	2.5	12.5	16	<0.1	1.0	0.3	274	0.08	0.031	11.1
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	<0.1	0.2	<1	<0.1	<0.1	<0.2	<1	<0.01	2	<0.1	<0.1	<1	<0.1	<0.1	<0.1	2	<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



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Project: None Given
Report Date: January 26, 2016

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QUALITY CONTROL REPORT

VAN16000154.1

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																					
IMA 3017	Soil Pulp	40	0.58	894	0.448	6.10	1.793	2.04	0.4	178.4	61	2.1	19.9	11.6	0.6	2	8	10.9	<0.1	51.6	4.7
REP IMA 3017	QC	39	0.57	889	0.459	6.11	1.789	2.22	0.3	189.7	56	2.0	20.0	11.5	0.6	2	8	9.9	<0.1	53.6	5.2
IMA 3050	Soil Pulp	41	0.61	922	0.493	7.22	1.999	2.23	0.4	203.4	67	2.3	22.1	12.4	0.7	2	9	10.9	<0.1	58.4	6.0
REP IMA 3050	QC	41	0.60	985	0.505	7.02	1.977	2.22	0.4	217.9	69	2.1	23.3	11.9	0.7	2	9	10.4	<0.1	56.8	6.2
Reference Materials																					
STD OREAS25A-4A	Standard	123	0.34	157	0.974	9.24	0.135	0.52	1.9	157.9	53	4.1	11.9	20.9	1.4	1	13	38.5	<0.1	64.8	4.3
STD OREAS25A-4A	Standard	128	0.32	158	0.956	9.33	0.116	0.49	1.9	149.8	56	4.2	10.7	19.7	1.5	1	13	38.8	<0.1	62.4	4.4
STD OREAS45E	Standard	850	0.16	268	0.482	6.47	0.056	0.32	1.1	90.7	24	1.4	7.6	5.9	0.5	<1	84	6.3	<0.1	20.6	3.0
STD OREAS45E	Standard	972	0.15	251	0.517	6.94	0.056	0.34	1.0	94.0	26	1.2	7.9	6.6	0.5	<1	91	7.0	<0.1	20.5	2.9
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	1	<0.01	<1	<0.001	<0.01	0.002	<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	0.002	<0.01	<0.1	0.2	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1



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QUALITY CONTROL REPORT

VAN16000154.1

Method		MA200	MA200	MA200	MA200	MA200
Analyte		In	Re	Se	Te	Ti
Unit		ppm	ppm	ppm	ppm	ppm
MDL		0.05	0.005	1	0.5	0.5
Pulp Duplicates						
IMA 3017	Soil Pulp	<0.05	<0.005	<1	<0.5	<0.5
REP IMA 3017	QC	0.06	<0.005	<1	<0.5	<0.5
IMA 3050	Soil Pulp	<0.05	<0.005	1	<0.5	<0.5
REP IMA 3050	QC	0.06	<0.005	<1	<0.5	<0.5
Reference Materials						
STD OREAS25A-4A	Standard	0.11	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	0.10	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	0.07	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	0.06	<0.005	4	<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

Quality Analysis ...



Innovative Technologies

Date Submitted: 17-Mar-16
Invoice No.: A16-02228
Invoice Date: 08-Apr-16
Your Reference:

R.A. McGregor
28 Ford Street
Sault Ste. Marie Ontario P6A 4N4
Canada

ATTN: R.A. MacGregor

CERTIFICATE OF ANALYSIS

71 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:

Code UT-4 Total Digestion ICP/MS

REPORT **A16-02228**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

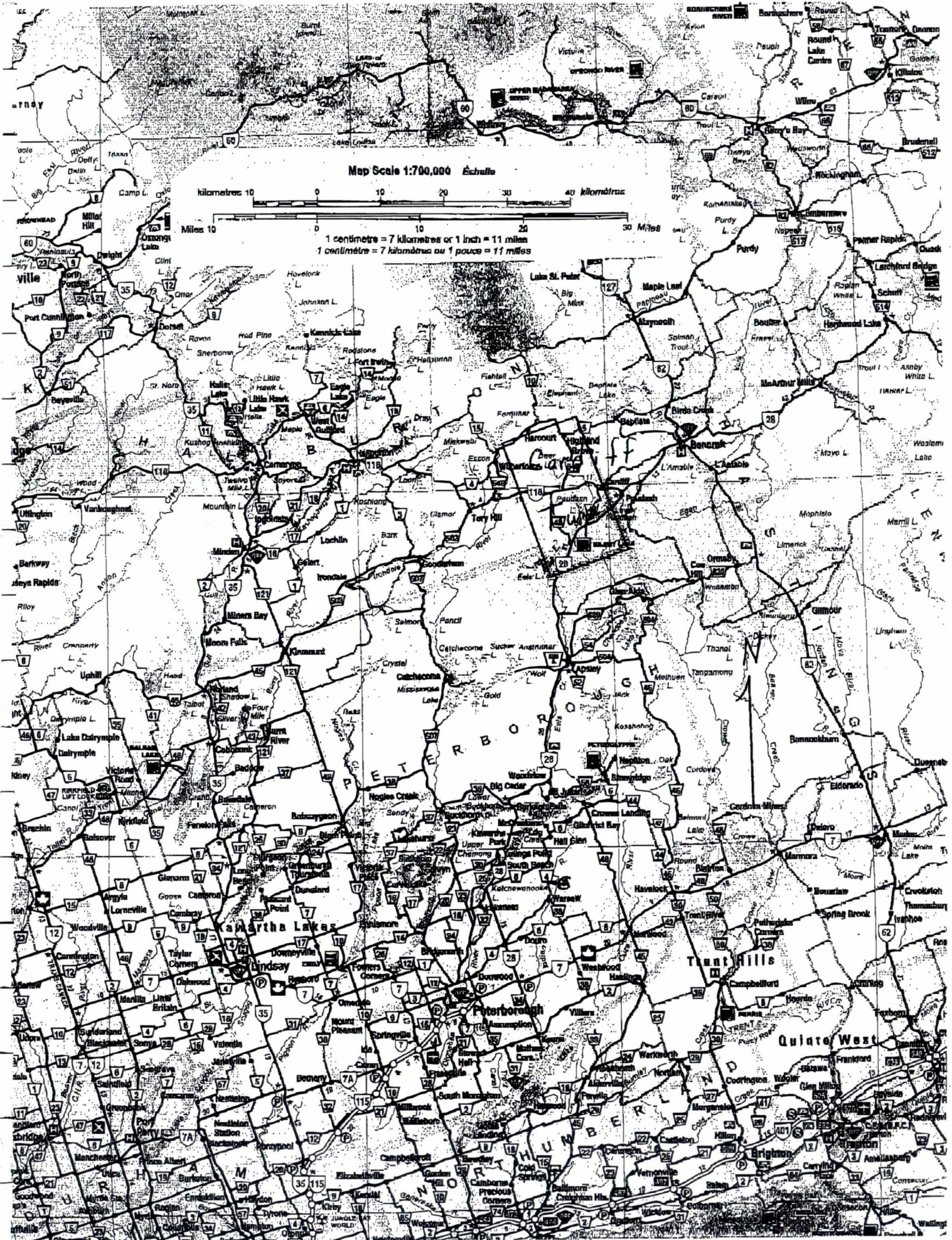
Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

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

Emmanuel Esemé, Ph.D.
Quality Control

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Map Scale 1:700,000 Échelle

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

Analyte Symbol	d	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Hg	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	0.5	0.1	0.1	0.1	10	0.05	0.05	0.1	0.05	0.02
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
AMA 1	2	54.5	> 3.00	7.14	< 0.01	0.26	0.45	< 0.1	187	172	247	7.31	3.6	171	1.2	1.2	0.4	50	1.74	0.38	49.3	0.63	3.41
AMA 2	1	36.4	0.89	6.33	4.60	0.07	6.47	< 0.1	149	247	901	6.06	1.9	145	2.1	1.0	0.9	50	0.58	0.14	21.0	3.35	0.48
AMA 3	1	29.1	> 3.00	4.14	7.90	0.21	0.18	< 0.1	150	216	317	6.39	3.1	105	1.2	0.8	0.4	50	0.44	0.25	25.6	0.91	1.34
AMA 4	1	70.1	0.16	8.57	6.00	0.36	0.92	< 0.1	194	998	669	9.41	3.1	389	1.0	1.8	0.4	30	0.90	0.56	21.7	0.88	0.62
AMA 5	2	46.3	0.25	4.90	5.60	3.25	0.49	< 0.1	100	93.1	194	5.39	6.4	84.8	2.7	4.4	1.1	80	1.73	3.06	19.3	1.21	1.95
AMA 6	5	56.6	0.33	6.16	7.60	2.79	0.63	< 0.1	164	105	267	5.89	6.2	236	1.7	3.8	0.6	90	1.01	2.78	23.8	0.72	1.55
AMA 7	7	53.3	> 3.00	6.10	7.60	0.19	1.42	< 0.1	179	158	311	6.02	2.1	114	1.4	0.8	0.5	40	0.35	0.22	20.9	1.74	0.11
AMA 8	8	27.8	> 3.00	3.30	6.80	0.17	1.88	< 0.1	165	199	269	4.21	3.1	73.6	1.2	0.4	0.4	20	0.41	0.18	19.9	0.64	0.47
AMA 9	5	15.4	0.03	4.60	3.40	0.07	10.6	0.3	108	2250	1970	9.91	0.6	1110	0.6	0.4	0.2	50	0.20	0.43	88.7	0.43	0.16
AMA 10	13	33.1	> 3.00	4.75	6.90	0.14	2.52	< 0.1	177	296	432	5.77	2.9	98.7	1.2	0.7	0.4	30	0.58	0.15	19.3	0.94	0.89
AMA 11	3	17.3	1.76	3.95	5.60	2.21	4.48	< 0.1	160	322	983	5.91	2.5	115	0.9	1.2	0.3	30	0.21	0.89	32.9	0.94	0.13
AMA 12	2	9.5	1.37	0.62	2.40	0.73	0.08	< 0.1	97	1690	63	2.34	1.1	33.0	6.4	0.3	2.7	70	0.16	0.13	23.4	2.39	0.20
AMA 13	< 1	20.6	2.28	3.82	6.20	1.63	4.39	< 0.1	162	192	985	5.70	2.4	99.0	0.9	1.2	0.3	< 10	0.16	0.65	29.1	0.91	0.11
AMA 14	1	89.4	2.52	9.65	< 0.01	0.13	0.18	< 0.1	128	147	473	8.54	3.5	209	1.1	0.9	0.4	30	0.78	0.32	69.9	0.76	2.40
AMA 15	2	6.1	> 3.00	0.84	5.90	0.83	0.94	1.5	30	140	158	1.87	2.2	145	0.6	0.7	0.2	200	0.51	0.17	22.6	0.43	0.63
AMA 16	1	34.7	1.35	3.33	5.70	2.47	2.26	< 0.1	104	142	322	4.51	3.0	121	0.9	1.9	0.4	50	2.49	2.14	27.7	1.01	1.04
AMA 17	1	8.9	> 3.00	0.99	5.90	2.20	3.54	3.9	32	91.0	1210	3.94	7.7	49.8	6.9	3.2	2.3	70	2.30	0.24	139	1.07	0.15
AMA 18	1	16.3	2.87	0.44	4.60	2.32	0.34	8.2	50	89.8	82	5.18	2.4	298	1.4	1.1	0.5	1260	2.07	0.71	84.0	1.62	2.40
AMA 19	1	5.3	> 3.00	0.87	5.10	0.22	1.16	4.7	53	229	254	7.74	2.5	415	1.2	0.6	0.4	480	1.24	0.37	64.7	1.00	2.04
AMA 20	55	76.1	0.87	4.95	0.50	0.12	12.9	0.2	68	58.4	4470	9.64	2.8	3.4	2.7	21.3	0.8	< 10	0.33	1.12	16.6	0.46	0.21
AMA 21	30	< 0.5	> 3.00	0.01	7.80	4.11	0.02	< 0.1	< 1	91.9	18	0.45	0.4	0.9	< 0.1	2.1	< 0.1	20	0.15	0.31	0.6	< 0.05	0.03
AMA 22	4	0.5	> 3.00	0.01	3.30	4.40	0.09	< 0.1	< 1	49.3	17	0.81	0.7	< 0.5	< 0.1	2.2	< 0.1	< 10	0.18	0.30	1.6	< 0.05	0.03
AMA 23	1	116	> 3.00	0.30	7.30	4.21	2.65	< 0.1	< 1	56.6	1290	6.23	< 0.1	< 0.5	1.0	0.6	0.4	< 10	0.18	3.23	5.7	0.67	0.03
AMA 24	1	5.0	2.67	0.05	6.00	> 5.00	0.07	< 0.1	< 1	108	32	0.42	< 0.1	2.9	0.1	1.4	< 0.1	< 10	0.09	2.04	0.7	0.13	0.03
AMA 25	2	18.2	1.86	2.14	6.90	4.95	3.34	< 0.1	41	139	718	2.42	1.0	8.7	1.0	4.5	0.3	20	0.26	3.84	7.4	0.27	0.16
AMA 26	3	17.7	1.23	4.91	< 0.01	1.05	1.98	< 0.1	201	305	651	7.44	1.5	32.1	0.7	1.8	0.2	20	0.16	0.91	22.0	0.30	0.32
AMA 27	< 1	52.0	2.66	4.82	3.60	1.07	10.4	0.1	55	40.3	1920	4.74	2.5	9.2	6.7	14.3	2.2	10	0.25	1.67	14.6	1.30	0.32
AMA 501	< 1	10.1	2.03	0.65	6.00	2.24	1.50	0.2	31	37.3	556	3.30	4.9	9.0	2.1	1.5	0.8	40	0.10	0.81	6.3	0.92	0.11
AMA 502	< 1	12.8	1.99	0.76	4.90	2.06	1.64	0.1	54	35.4	456	3.31	1.4	12.5	2.3	2.1	0.9	70	0.08	0.65	6.7	1.03	0.07
AMA 503	11	27.3	2.00	0.69	4.30	2.10	1.52	0.1	50	45.2	679	2.75	5.3	15.0	7.2	3.4	2.7	60	0.11	1.29	14.4	2.66	0.09
AMA 504	13	19.5	1.98	0.80	5.70	1.96	1.72	0.1	53	39.4	539	5.30	0.8	10.3	3.1	2.4	1.1	70	0.10	0.77	7.0	1.05	0.13
AMA 505	2	11.6	1.84	0.62	5.30	2.08	1.37	0.1	48	38.2	387	3.85	2.7	10.1	2.9	1.8	1.1	60	0.10	0.81	6.1	1.22	0.11
AMA 506	< 1	19.5	2.23	0.89	6.30	2.26	1.92	0.1	38	41.3	539	4.39	5.2	15.2	2.6	2.0	0.9	50	0.09	0.86	8.8	1.08	0.11
AMA 507	< 1	12.8	2.05	0.80	4.50	2.27	1.61	0.1	36	46.7	469	5.07	4.3	11.7	2.4	1.7	0.9	40	0.08	0.83	7.6	1.02	0.09
AMA 508	3	13.5	2.09	0.62	6.60	2.51	1.44	< 0.1	26	42.8	395	4.12	4.3	9.0	2.2	1.7	0.8	40	0.28	0.84	5.7	1.00	0.12
AMA 509	1	16.4	2.03	0.82	4.30	2.06	1.76	0.1	43	47.1	534	4.02	6.2	12.8	2.5	1.9	0.9	20	0.16	0.99	7.6	1.07	0.09
AMA 510	< 1	16.8	2.02	0.85	5.60	2.24	1.71	0.1	59	45.7	573	4.30	6.6	12.2	2.9	2.0	1.1	< 10	0.15	1.17	8.4	1.29	0.11
AMA 511	1	9.9	2.25	0.79	5.50	2.12	1.92	0.2	48	41.9	629	3.43	6.1	11.3	2.7	1.8	1.0	20	0.11	0.51	7.0	1.14	0.07
AMA 512	< 1	10.4	1.88	0.65	5.25	2.17	1.50	0.1	27	35.8	544	4.30	3.7	8.4	2.0	1.6	0.7	30	2.73	0.86	6.0	0.88	0.14
AMA 513	6	9.3	2.08	0.69	5.80	1.71	1.66	0.2	39	35.8	440	3.90	3.3	9.3	2.0	1.8	0.7	80	0.20	0.33	5.7	0.86	0.09
AMA 514	< 1	6.8	1.72	0.42	5.35	1.75	1.18	< 0.1	25	31.5	354	3.39	0.8	8.1	1.5	1.2	0.5	60	0.11	0.31	3.9	0.65	0.09
AMA 515	< 1	10.7	2.12	0.78	5.90	2.12	1.88	0.3	58	37.9	596	3.13	3.4	10.6	3.2	2.0	1.1	30	0.07	0.65	7.1	1.38	0.08
AMA 516	2	12.2	2.02	0.87	5.90	2.01	1.73	0.2	43	45.1	713	3.71	3.8	12.8	2.3	1.7	0.8	30	0.27	0.75	8.5	1.10	0.07
AMA 517	1	15.3	2.13	0.88	5.50	1.83	2.26	0.5	51	43.2	1400	3.48	6.6	13.9	3.6	1.9	1.3	20	0.17	1.07	9.3	1.37	0.10
AMA 518	< 1	19.3	2.15	0.88	5.20	2.15	1.97	0.2	50	43.6	891	3.82	5.4	13.9	2.5	1.7	0.9	30	0.13	1.96	9.3	1.11	0.15
AMA 519	< 1	25.9	1.97	1.28	5.50	1.67	2.93	0.8	69	43.7	1840	3.76	5.3	21.3	8.8	4.2	3.3	30	0.17	2.51	14.9	2.77	0.15
AMA 520	< 1	16.3	2.25	0.85	5.80	2.15	2.09	0.2	37	30.7	569	3.10	0.5	11.6	3.8	2.1	1.4	40	0.12	1.03	7.7	1.58	0.11
AMA 521	11	14.5	2.45	0.92	5.60	2.16	2.32	0.1	57	45.0	612	3.10	6.7	12.5	3.1	2.3	1.1	30	0.09	0.74	8.7	1.28	0.07

Analyte Symbol		Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Hg	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppm	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	0.5	0.1	0.1	0.1	10	0.05	0.05	0.1	0.05	0.02
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
AMA 522	10	14.0	2.15	0.83	5.60	2.18	1.83	0.2	43	38.2	572	3.46	5.1	10.4	3.0	2.0	1.1	50	0.07	0.71	7.0	1.28	0.08
AMA 523	3	9.5	2.16	0.74	5.30	2.19	1.80	0.2	41	36.7	724	3.66	2.8	9.5	2.4	1.8	0.9	40	0.07	0.61	7.2	1.00	0.10
AMA 524	< 1	24.8	2.15	1.28	5.60	2.03	2.70	0.4	63	39.1	1160	4.33	2.4	18.9	3.8	2.3	1.5	30	0.13	3.71	12.7	1.53	0.18
AMA 525	< 1	10.4	1.94	0.71	5.30	2.06	1.58	0.2	38	40.5	746	3.84	2.3	9.6	2.2	1.8	0.8	40	0.08	0.78	7.6	0.97	0.10
AMA 526	2	7.1	1.53	0.37	5.20	1.79	0.99	0.4	29	34.1	319	3.74	2.0	5.6	1.5	1.3	0.5	60	0.26	0.41	3.5	0.62	0.10
AMA 527	1	9.8	2.01	0.57	5.50	2.08	1.49	0.2	27	34.3	455	2.93	5.8	6.8	1.8	1.5	0.6	30	0.15	0.49	4.9	0.80	0.10
AMA 528	< 1	8.7	2.39	0.80	5.60	2.20	1.94	0.2	56	39.2	743	3.42	6.8	10.3	2.9	1.8	1.1	30	0.11	0.53	7.1	1.29	0.05
AMA 529	< 1	17.8	2.42	0.91	5.50	2.29	2.31	0.3	38	35.3	665	3.10	4.6	24.8	2.7	1.7	1.0	20	0.10	4.04	11.2	1.13	0.11
AMA 530	1	7.4	2.21	0.58	5.30	2.18	1.64	0.1	43	29.9	485	3.49	0.5	8.0	2.2	1.7	0.8	30	0.08	0.66	5.5	0.89	0.08
AMA 531	9	11.1	2.22	0.76	5.80	2.02	1.92	0.2	57	43.4	699	4.64	7.0	11.2	3.1	2.1	1.1	30	0.07	0.67	8.6	1.17	0.08
AMA 532	5	12.8	2.23	0.84	6.10	2.25	1.81	0.2	41	42.9	555	3.32	5.4	14.1	2.9	2.0	1.1	50	0.09	1.30	9.6	1.24	0.08
AMA 533	5	11.9	1.85	0.69	5.20	1.92	1.50	0.2	47	35.0	403	3.62	1.6	11.5	2.0	1.8	0.8	100	0.07	0.82	6.8	0.95	0.07
AMA 534	1	16.0	1.63	0.69	5.80	2.04	1.45	0.2	36	39.9	484	3.68	0.3	11.2	2.0	1.6	0.8	60	0.09	1.15	7.3	0.87	0.11
AMA 535	< 1	10.2	2.27	0.79	5.50	2.17	1.82	0.2	33	38.2	566	3.63	0.8	11.7	2.4	1.9	0.9	40	0.07	0.67	8.0	1.04	0.07
AMA 536	1	20.7	1.63	0.70	5.60	1.85	1.44	0.2	37	50.4	458	5.18	2.9	10.5	2.5	2.3	0.9	60	0.25	1.24	8.7	0.94	0.16
AMA 537	2	22.0	1.81	0.72	5.50	2.21	1.51	0.1	32	46.6	923	3.79	4.5	11.9	2.4	1.8	0.8	30	0.12	0.74	8.5	1.27	0.07
AMA 538	1	12.7	2.14	0.89	5.60	2.17	1.89	0.1	67	49.9	677	4.23	6.9	12.8	3.0	1.8	1.1	30	0.16	2.11	8.4	0.97	0.14
AMA 539	2	16.6	1.75	0.65	5.60	1.90	1.57	0.9	61	37.1	2780	3.18	5.1	15.6	5.0	2.5	1.8	30	0.30	3.15	33.5	1.70	0.15
AMA 540	1	9.1	1.83	0.59	5.20	2.19	1.45	0.4	38	41.4	410	4.40	4.3	10.1	1.8	1.6	0.6	30	0.10	1.11	5.8	0.82	0.09
AMA 541	< 1	16.1	2.02	0.94	5.70	2.17	1.84	0.2	33	34.3	550	3.70	0.5	15.5	2.4	1.8	0.9	40	0.10	1.64	8.9	1.07	0.09
AMA 542	10	11.7	1.93	0.74	5.80	2.11	1.66	0.2	65	48.0	582	4.16	7.9	9.9	2.2	1.7	0.8	50	0.09	1.48	6.7	0.93	0.12
AMA 543	8	15.9	2.20	1.02	5.40	2.20	2.05	0.2	52	35.3	615	3.96	5.0	14.7	2.7	1.8	1.0	50	0.10	2.84	9.9	1.16	0.13
AMA 544	17	32.4	2.19	2.10	4.70	1.36	4.55	0.4	55	44.6	1860	4.72	5.4	24.3	6.6	3.4	2.4	40	0.07	0.66	16.7	2.17	0.20

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
AMA 1	0.9	77.1	16.3	23.8	3.5	8.0	147	5.9	27.2	0.2	2	0.2	< 0.1	136	16.5	38.8	3.7	23.1	2.7	2.6	0.3	1.8	7440
AMA 2	< 0.1	70.3	10.2	10.5	1.0	17.6	125	0.9	14.2	< 0.1	< 1	< 0.1	< 0.1	28	80.6	197	17.7	117	13.4	11.0	1.1	5.1	1080
AMA 3	0.4	64.3	13.5	15.4	2.5	6.8	122	4.7	2.78	< 0.1	1	0.3	< 0.1	188	17.9	42.6	4.1	26.4	3.3	3.0	0.4	2.0	2440
AMA 4	0.3	152	10.6	1.1	9.3	6.9	140	2.6	3.86	< 0.1	3	0.4	< 0.1	326	16.2	38.0	3.6	23.3	2.9	2.8	0.3	1.7	4500
AMA 5	1.8	68.7	16.8	8.0	75.4	21.0	252	9.2	7.30	0.5	14	1.3	0.2	183	22.3	56.9	5.6	36.5	4.7	5.7	0.9	4.8	9990
AMA 6	0.8	69.0	14.8	10.5	63.8	10.8	254	6.6	8.88	0.3	14	1.0	< 0.1	228	14.7	37.6	3.7	23.6	2.9	2.8	0.4	2.2	4150
AMA 7	< 0.1	70.1	14.0	< 0.1	3.5	9.6	131	0.9	3.38	< 0.1	1	0.2	< 0.1	100	41.6	97.5	9.1	58.3	6.5	5.3	0.6	2.6	1330
AMA 8	0.3	47.5	11.9	12.0	2.0	7.7	129	4.8	4.02	< 0.1	2	1.4	< 0.1	71	13.1	32.0	3.0	19.0	2.4	2.4	0.3	1.8	2300
AMA 9	0.6	100	5.2	29.7	1.5	4.3	22	0.6	0.77	< 0.1	< 1	0.8	< 0.1	128	1.8	4.1	0.4	3.4	0.7	1.2	0.2	1.0	348
AMA 10	0.2	63.6	12.6	7.7	1.8	8.2	118	4.4	4.80	< 0.1	1	0.2	< 0.1	65	15.1	35.8	3.4	21.6	2.6	2.7	0.3	2.0	3660
AMA 11	0.1	75.4	4.8	36.0	44.6	5.9	97	0.8	4.32	< 0.1	1	0.3	< 0.1	804	14.8	34.0	3.3	21.1	2.7	2.7	0.3	1.6	66.5
AMA 12	1.2	< 0.2	3.6	0.8	3.8	48.2	42	2.9	6.48	< 0.1	1	0.3	< 0.1	16	5.4	13.6	1.4	9.8	3.4	11.5	2.2	13.0	> 10000
AMA 13	0.2	77.1	6.2	26.5	32.8	6.2	96	3.0	0.91	< 0.1	1	0.5	< 0.1	645	15.0	34.2	3.3	21.4	2.7	2.7	0.3	1.6	70.1
AMA 14	0.4	85.5	18.6	3.2	2.9	8.0	146	6.6	24.8	0.1	1	0.1	< 0.1	33	30.3	65.9	6.1	36.5	3.8	3.3	0.4	1.9	2910
AMA 15	1.4	891	12.5	73.9	5.8	4.0	79	3.5	3.40	0.2	4	2.8	0.3	142	6.5	16.0	1.5	8.9	1.1	1.1	0.2	0.9	151
AMA 16	1.5	56.0	13.1	39.9	50.1	6.7	121	4.5	5.03	0.2	2	0.9	0.2	111	21.8	49.4	4.7	27.7	3.1	2.8	0.3	1.6	> 10000
AMA 17	< 0.1	761	17.6	9.5	30.6	41.9	269	11.3	106	< 0.1	3	0.6	< 0.1	139	20.1	56.9	6.2	40.5	5.8	7.3	1.3	8.7	709
AMA 18	10.2	5140	12.8	295	34.0	9.5	97	4.1	16.8	0.8	13	3.5	1.3	20	10.0	28.6	2.8	17.3	2.2	2.6	0.4	2.3	685
AMA 19	5.7	2640	11.5	171	6.3	8.4	102	4.3	13.9	0.6	7	6.1	1.5	35	17.0	38.5	3.4	20.2	2.3	2.4	0.3	1.9	529
AMA 20	< 0.1	307	6.6	0.5	6.3	15.8	43	1.0	4.64	0.2	3	0.5	< 0.1	80	19.3	38.8	3.3	18.8	2.1	2.4	0.4	2.7	9.4
AMA 21	< 0.1	2.2	19.3	< 0.1	46.5	0.1	17	0.2	0.91	< 0.1	< 1	0.1	< 0.1	541	0.1	0.2	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	4.6
AMA 22	< 0.1	0.8	20.8	< 0.1	47.4	0.1	25	0.2	0.83	< 0.1	< 1	0.1	< 0.1	535	0.2	0.5	< 0.1	0.2	< 0.1	< 0.1	< 0.1	< 0.1	3.1
AMA 23	< 0.1	127	< 0.1	< 0.1	47.6	6.4	5	6.2	0.67	< 0.1	1	0.1	< 0.1	2100	6.5	18.0	1.7	10.6	1.3	1.6	0.3	1.5	3.6
AMA 24	< 0.1	1.9	9.8	< 0.1	172	0.6	< 1	1.6	1.81	< 0.1	< 1	0.1	< 0.1	867	2.9	3.9	0.3	1.2	0.1	0.1	< 0.1	0.1	11.7
AMA 25	< 0.1	63.4	8.1	0.3	225	7.1	27	0.5	1.78	< 0.1	2	0.3	< 0.1	1740	9.4	16.9	1.5	8.0	0.9	1.1	0.2	1.2	28.9
AMA 26	< 0.1	160	34.8	< 0.1	36.3	4.8	45	2.0	2.41	< 0.1	4	0.1	< 0.1	345	14.9	22.6	1.5	7.3	0.7	0.8	0.1	0.9	11.8
AMA 27	< 0.1	143	8.7	< 0.1	37.9	41.6	48	10.2	0.89	< 0.1	3	0.3	< 0.1	409	24.3	63.3	6.8	42.3	5.8	7.2	1.3	8.6	7.3
AMA 501	0.1	57.0	8.1	< 0.1	36.4	14.2	198	0.1	0.14	< 0.1	< 1	< 0.1	< 0.1	877	15.6	48.8	3.5	22.0	2.8	3.3	0.5	3.2	11.6
AMA 502	0.4	50.9	7.7	< 0.1	31.3	15.6	101	< 0.1	0.64	< 0.1	1	< 0.1	< 0.1	787	15.2	57.5	3.5	22.2	3.1	3.7	0.6	3.8	12.4
AMA 503	< 0.1	53.6	7.1	< 0.1	33.2	50.3	207	1.2	3.55	< 0.1	2	< 0.1	< 0.1	805	65.6	204	13.3	82.4	11.0	12.2	2.0	12.3	66.6
AMA 504	< 0.1	48.6	11.3	< 0.1	31.9	20.3	71	< 0.1	0.13	< 0.1	< 1	< 0.1	< 0.1	761	19.2	71.6	4.2	26.0	3.5	4.2	0.7	4.6	23.5
AMA 505	0.2	51.6	9.8	< 0.1	34.5	21.4	142	< 0.1	0.19	< 0.1	< 1	< 0.1	< 0.1	807	23.0	61.9	5.3	33.1	4.2	4.9	0.8	4.7	11.3
AMA 506	0.1	69.0	10.8	< 0.1	35.8	17.8	218	< 0.1	0.11	< 0.1	< 1	< 0.1	< 0.1	886	20.7	56.4	4.3	26.8	3.4	3.9	0.6	4.0	12.1
AMA 507	0.2	55.0	11.1	< 0.1	35.2	17.0	176	0.1	0.10	< 0.1	< 1	< 0.1	< 0.1	823	17.9	50.9	3.9	24.4	3.3	3.7	0.6	3.9	8.1
AMA 508	< 0.1	49.2	12.1	< 0.1	39.9	15.0	176	< 0.1	0.32	< 0.1	1	< 0.1	< 0.1	923	21.9	55.0	4.0	23.7	3.0	3.4	0.6	3.5	23.5
AMA 509	0.5	67.2	9.6	0.3	33.1	17.4	249	0.3	0.38	< 0.1	1	< 0.1	< 0.1	775	17.2	45.1	3.9	24.9	3.2	3.9	0.6	3.9	26.3
AMA 510	0.5	54.3	11.5	< 0.1	35.0	20.8	269	1.2	0.65	< 0.1	2	< 0.1	< 0.1	798	27.6	53.0	5.6	33.6	4.3	5.0	0.8	4.8	22.6
AMA 511	0.2	65.5	8.1	< 0.1	31.2	18.8	250	0.8	0.28	< 0.1	1	< 0.1	< 0.1	813	17.3	58.8	4.1	25.5	3.4	4.2	0.7	4.2	13.1
AMA 512	0.3	58.2	10.8	< 0.1	35.2	14.3	164	< 0.1	0.08	< 0.1	< 1	< 0.1	< 0.1	907	16.2	41.2	3.4	20.9	2.6	3.0	0.5	3.0	5.8
AMA 513	0.5	42.1	9.7	< 0.1	25.1	13.7	158	< 0.1	0.12	< 0.1	< 1	< 0.1	< 0.1	701	14.3	56.3	3.0	18.4	2.4	2.9	0.5	3.1	10.2
AMA 514	0.2	29.7	10.0	< 0.1	25.3	10.1	61	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	717	10.5	33.9	2.3	13.8	1.8	2.1	0.3	2.3	9.1
AMA 515	0.4	76.5	8.5	< 0.1	33.1	23.0	189	0.4	0.45	< 0.1	1	< 0.1	< 0.1	815	26.2	77.8	5.9	36.5	4.5	5.0	0.8	4.9	15.2
AMA 516	0.4	73.8	8.0	< 0.1	34.5	16.1	154	0.2	0.41	< 0.1	1	< 0.1	< 0.1	811	17.5	53.2	3.9	24.1	3.1	3.6	0.6	3.6	9.3
AMA 517	0.4	120	7.8	< 0.1	31.7	27.7	255	1.3	3.44	< 0.1	1	< 0.1	< 0.1	806	29.1	66.5	6.4	39.3	4.8	5.5	0.8	5.4	34.9
AMA 518	0.4	84.1	9.1	< 0.1	38.7	18.1	220	0.3	0.54	< 0.1	1	< 0.1	< 0.1	832	21.3	72.8	4.4	27.5	3.5	4.1	0.6	4.0	17.8
AMA 519	0.5	166	7.2	< 0.1	31.5	73.2	210	2.0	3.58	< 0.1	2	0.1	< 0.1	704	78.3	148	17.0	109	13.7	15.8	2.3	13.7	59.7
AMA 520	< 0.1	48.9	7.6	< 0.1	34.8	29.0	40	< 0.1	0.13	< 0.1	< 1	< 0.1	< 0.1	855	42.0	68.2	8.8	53.2	5.8	6.6	0.9	5.8	18.2
AMA 521	0.3	52.3	7.6	< 0.1	38.5	21.6	278	1.4	0.66	< 0.1	2	< 0.1	< 0.1	836	23.7	78.4	5.3	32.8	4.0	4.6	0.7	4.7	23.8

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
AMA 522	0.4	54.1	8.8	< 0.1	32.4	21.3	222	0.1	0.14	< 0.1	< 1	< 0.1	< 0.1	803	27.3	67.8	5.4	32.9	4.2	4.7	0.7	4.6	14.3
AMA 523	0.2	57.0	8.1	2.6	33.3	16.9	161	< 0.1	0.28	< 0.1	< 1	< 0.1	< 0.1	870	15.0	51.0	3.5	22.6	2.9	3.5	0.6	3.6	7.9
AMA 524	0.3	129	9.2	< 0.1	55.0	27.8	129	2.6	0.68	< 0.1	1	< 0.1	< 0.1	801	31.2	99.9	6.9	43.9	5.7	6.6	1.0	6.2	32.8
AMA 525	0.3	65.2	9.7	< 0.1	35.3	15.2	119	< 0.1	0.09	< 0.1	< 1	< 0.1	< 0.1	794	15.1	58.3	3.4	21.2	2.8	3.3	0.6	3.4	7.7
AMA 526	0.3	40.7	10.8	< 0.1	27.0	9.7	116	< 0.1	0.25	< 0.1	< 1	< 0.1	< 0.1	716	12.0	31.1	2.5	15.2	1.9	2.2	0.4	2.3	6.0
AMA 527	0.3	39.8	8.7	< 0.1	30.9	12.5	241	0.2	0.26	< 0.1	< 1	< 0.1	< 0.1	818	13.0	43.5	2.9	17.5	2.3	2.7	0.4	2.9	11.5
AMA 528	0.5	50.9	8.3	< 0.1	34.0	21.0	280	1.4	0.66	< 0.1	1	< 0.1	< 0.1	859	21.6	55.2	4.9	30.8	3.9	4.7	0.7	4.7	13.1
AMA 529	0.3	72.5	8.0	< 0.1	40.7	19.8	190	< 0.1	0.29	< 0.1	1	< 0.1	< 0.1	902	20.5	49.8	4.4	27.0	3.4	4.1	0.6	4.0	56.0
AMA 530	0.1	41.5	9.0	< 0.1	33.7	15.6	49	< 0.1	0.09	< 0.1	< 1	< 0.1	< 0.1	856	16.9	61.7	3.8	23.4	3.0	3.5	0.6	3.4	8.2
AMA 531	0.3	62.5	10.4	< 0.1	33.1	22.2	299	0.2	0.56	< 0.1	1	< 0.1	< 0.1	789	17.1	62.4	4.2	26.3	3.6	4.3	0.7	4.7	11.5
AMA 532	0.4	58.8	9.4	< 0.1	35.9	20.6	234	< 0.1	0.16	< 0.1	< 1	< 0.1	< 0.1	796	21.7	68.7	4.9	31.3	4.1	4.7	0.7	4.6	18.4
AMA 533	0.6	44.9	8.8	< 0.1	30.1	14.0	110	< 0.1	0.10	< 0.1	< 1	< 0.1	< 0.1	720	13.5	47.9	3.1	19.7	2.6	3.2	0.5	3.2	10.1
AMA 534	0.3	58.6	10.2	< 0.1	34.9	13.9	24	< 0.1	0.08	< 0.1	< 1	< 0.1	< 0.1	743	14.5	37.7	3.3	20.4	2.7	3.2	0.5	3.2	12.3
AMA 535	0.3	61.4	9.5	< 0.1	33.8	16.9	57	< 0.1	0.06	< 0.1	< 1	< 0.1	< 0.1	811	18.2	65.0	3.9	24.5	3.3	3.8	0.6	3.9	10.2
AMA 536	0.4	76.9	11.2	< 0.1	33.5	17.5	125	< 0.1	0.34	< 0.1	1	< 0.1	< 0.1	696	19.0	56.0	4.0	24.5	3.0	3.7	0.6	3.8	10.5
AMA 537	0.4	67.3	10.6	< 0.1	41.1	17.0	191	0.1	0.26	< 0.1	1	< 0.1	< 0.1	836	19.5	83.4	4.2	25.7	3.2	3.6	0.6	3.6	10.4
AMA 538	0.7	61.0	9.9	< 0.1	34.9	21.9	292	2.0	1.01	< 0.1	2	< 0.1	< 0.1	806	24.9	84.4	5.4	33.7	4.3	4.9	0.8	4.8	15.1
AMA 539	0.9	154	7.8	0.4	39.3	36.6	212	9.9	9.15	< 0.1	2	0.2	< 0.1	742	41.8	138	8.7	53.2	6.3	7.2	1.1	7.2	101
AMA 540	0.4	70.1	11.4	< 0.1	37.7	13.1	184	0.1	0.27	< 0.1	1	< 0.1	< 0.1	857	13.4	50.0	2.9	17.9	2.3	2.7	0.4	2.8	11.6
AMA 541	0.3	66.4	8.6	< 0.1	38.8	17.5	32	< 0.1	0.11	< 0.1	< 1	< 0.1	< 0.1	837	17.4	65.9	3.9	24.6	3.2	3.8	0.6	3.8	15.4
AMA 542	0.8	72.8	8.8	< 0.1	40.2	16.0	337	0.4	1.04	< 0.1	2	< 0.1	< 0.1	821	14.1	44.4	3.3	20.8	2.8	3.3	0.5	3.4	10.3
AMA 543	0.4	55.9	8.9	< 0.1	38.7	19.4	218	0.1	0.22	< 0.1	< 1	< 0.1	< 0.1	834	21.5	82.4	4.4	28.1	3.5	4.3	0.7	4.2	15.4
AMA 544	< 0.1	126	9.4	< 0.1	25.4	51.3	214	0.3	0.18	< 0.1	2	< 0.1	< 0.1	488	45.0	98.5	10.5	66.6	8.3	10.2	1.6	9.7	24.3

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	Sr	W	Re	Ti	Pb	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.001	0.05	0.5	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
AMA 1	< 0.1	0.2	1.8	0.2	0.2	87.6	2.7	0.250	0.06	7.0	3.1	1.1
AMA 2	< 0.1	0.2	2.1	0.3	< 0.1	331	3.0	< 0.001	< 0.05	11.3	17.4	4.3
AMA 3	< 0.1	0.2	1.8	0.2	0.2	112	2.2	< 0.001	< 0.05	7.1	2.5	0.8
AMA 4	< 0.1	0.1	1.6	0.2	0.2	23.7	3.0	< 0.001	0.09	12.1	3.5	1.0
AMA 5	< 0.1	0.3	3.1	0.4	0.6	17.3	6.6	< 0.001	0.70	13.2	5.4	1.6
AMA 6	< 0.1	0.2	2.7	0.3	0.4	20.2	10.0	< 0.001	0.59	12.3	4.9	1.7
AMA 7	< 0.1	0.2	1.9	0.2	< 0.1	102	4.6	< 0.001	< 0.05	2.3	7.2	1.7
AMA 8	< 0.1	0.2	1.8	0.2	0.2	94.4	6.4	< 0.001	< 0.05	13.0	2.2	0.7
AMA 9	< 0.1	< 0.1	0.9	0.1	< 0.1	379	1.2	0.100	< 0.05	9.2	0.1	< 0.1
AMA 10	< 0.1	0.1	1.6	0.2	0.2	87.0	5.1	< 0.001	< 0.05	7.0	3.0	0.8
AMA 11	< 0.1	0.1	1.3	0.2	< 0.1	285	1.6	< 0.001	0.36	8.1	3.5	0.9
AMA 12	< 0.1	0.7	6.8	0.6	0.2	5.3	5.3	< 0.001	< 0.05	1.8	1.6	1.0
AMA 13	< 0.1	0.1	1.3	0.2	0.1	301	10.2	< 0.001	0.25	4.2	3.2	0.9
AMA 14	< 0.1	0.1	1.6	0.2	0.4	51.6	4.6	< 0.001	0.05	5.8	7.5	2.3
AMA 15	< 0.1	< 0.1	0.8	0.1	0.2	121	0.8	< 0.001	0.43	30.5	2.7	0.9
AMA 16	< 0.1	0.1	1.2	0.2	0.3	75.7	4.8	< 0.001	0.67	11.9	4.5	1.3
AMA 17	< 0.1	0.9	11.3	1.4	0.7	67.3	2.1	< 0.001	0.14	76.4	5.8	14.6
AMA 18	< 0.1	0.2	2.0	0.3	0.3	52.1	1.5	< 0.001	2.46	84.5	2.5	1.2
AMA 19	< 0.1	0.1	1.6	0.2	0.3	56.7	1.0	< 0.001	2.19	85.5	4.8	1.3
AMA 20	< 0.1	0.5	10.9	2.4	< 0.1	38.7	3.1	< 0.001	0.13	10.2	1.5	1.8
AMA 21	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	28.9	0.3	< 0.001	0.35	2.6	0.4	0.2
AMA 22	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	45.0	0.2	< 0.001	0.37	6.2	0.3	0.1
AMA 23	< 0.1	0.1	2.0	0.3	0.3	578	0.3	< 0.001	0.49	9.9	0.6	3.8
AMA 24	< 0.1	< 0.1	0.2	< 0.1	< 0.1	191	0.5	< 0.001	1.57	7.1	2.5	0.9
AMA 25	< 0.1	0.1	2.0	0.3	< 0.1	240	1.4	< 0.001	1.94	18.3	11.1	2.6
AMA 26	< 0.1	0.1	1.3	0.2	0.1	570	0.5	< 0.001	0.32	21.3	0.6	0.8
AMA 27	0.3	0.9	10.8	1.4	0.2	184	0.2	< 0.001	0.42	15.6	4.8	4.2
AMA 501	< 0.1	0.3	2.9	0.4	< 0.1	207	< 0.1	< 0.001	0.27	18.9	5.3	1.6
AMA 502	< 0.1	0.3	3.1	0.4	< 0.1	208	< 0.1	< 0.001	0.21	16.2	8.7	3.7
AMA 503	< 0.1	0.8	9.1	1.0	< 0.1	189	0.1	< 0.001	0.32	15.2	12.9	47.9
AMA 504	< 0.1	0.4	4.4	0.5	< 0.1	226	< 0.1	< 0.001	0.21	18.8	7.6	5.2
AMA 505	< 0.1	0.3	3.8	0.4	< 0.1	190	< 0.1	< 0.001	0.21	18.5	5.3	5.4
AMA 506	< 0.1	0.3	3.5	0.4	< 0.1	245	< 0.1	< 0.001	0.26	17.6	5.7	3.7
AMA 507	< 0.1	0.3	3.2	0.4	< 0.1	202	0.1	< 0.001	0.24	16.5	4.5	3.5
AMA 508	< 0.1	0.3	3.0	0.4	< 0.1	209	0.1	< 0.001	0.30	19.4	5.6	3.1
AMA 509	< 0.1	0.3	3.4	0.4	< 0.1	208	0.1	< 0.001	0.23	16.3	6.2	2.6
AMA 510	< 0.1	0.3	3.8	0.5	< 0.1	217	< 0.1	< 0.001	0.25	16.4	7.7	8.4
AMA 511	< 0.1	0.3	3.6	0.4	< 0.1	234	0.1	< 0.001	0.23	17.4	6.5	1.4
AMA 512	< 0.1	0.2	2.8	0.3	< 0.1	215	< 0.1	< 0.001	0.25	18.3	5.0	1.5
AMA 513	< 0.1	0.2	2.7	0.3	< 0.1	216	< 0.1	< 0.001	0.18	17.1	6.2	2.6
AMA 514	< 0.1	0.2	2.2	0.3	< 0.1	197	< 0.1	< 0.001	0.17	17.2	4.3	1.4
AMA 515	< 0.1	0.4	4.3	0.5	< 0.1	240	< 0.1	< 0.001	0.23	22.6	11.4	4.5
AMA 516	< 0.1	0.3	3.0	0.4	< 0.1	222	0.2	< 0.001	0.23	18.2	5.0	1.2
AMA 517	< 0.1	0.4	5.0	0.6	< 0.1	245	0.1	< 0.001	0.28	18.6	9.6	18.5
AMA 518	< 0.1	0.3	3.4	0.4	< 0.1	219	0.1	< 0.001	0.34	22.9	6.4	2.7
AMA 519	< 0.1	1.0	10.9	1.3	< 0.1	225	0.2	< 0.001	0.42	24.1	11.2	16.5
AMA 520	< 0.1	0.4	5.0	0.6	< 0.1	255	< 0.1	< 0.001	0.28	24.2	6.4	4.4
AMA 521	< 0.1	0.4	4.3	0.5	< 0.1	264	0.1	< 0.001	0.28	21.7	38.3	8.7

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	Sr	W	Re	Ti	Pb	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.001	0.05	0.5	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
AMA 522	< 0.1	0.3	4.0	0.5	< 0.1	226	< 0.1	< 0.001	0.23	17.3	10.6	3.8
AMA 523	< 0.1	0.3	3.4	0.4	< 0.1	249	< 0.1	< 0.001	0.24	21.5	5.3	1.5
AMA 524	< 0.1	0.4	4.8	0.6	0.1	232	0.2	< 0.001	0.43	25.0	7.3	2.9
AMA 525	< 0.1	0.3	3.0	0.4	< 0.1	210	< 0.1	< 0.001	0.23	16.9	7.6	1.7
AMA 526	< 0.1	0.2	2.0	0.3	< 0.1	176	0.1	< 0.001	0.22	17.9	4.9	1.5
AMA 527	< 0.1	0.2	2.6	0.3	< 0.1	218	< 0.1	< 0.001	0.23	17.3	4.8	1.6
AMA 528	< 0.1	0.3	3.9	0.5	< 0.1	261	< 0.1	< 0.001	0.23	15.7	8.2	2.1
AMA 529	< 0.1	0.3	3.7	0.5	< 0.1	242	< 0.1	< 0.001	0.31	22.3	5.2	6.1
AMA 530	< 0.1	0.3	2.9	0.4	< 0.1	242	< 0.1	< 0.001	0.23	20.3	6.3	1.9
AMA 531	< 0.1	0.4	4.3	0.5	< 0.1	242	0.1	< 0.001	0.22	16.8	5.9	4.7
AMA 532	< 0.1	0.3	3.9	0.4	< 0.1	211	< 0.1	< 0.001	0.31	17.8	9.2	10.4
AMA 533	< 0.1	0.2	2.7	0.3	< 0.1	190	< 0.1	< 0.001	0.24	16.3	5.3	1.5
AMA 534	< 0.1	0.2	2.7	0.3	< 0.1	173	< 0.1	< 0.001	0.27	16.8	5.2	4.1
AMA 535	< 0.1	0.3	3.3	0.4	< 0.1	229	0.2	< 0.001	0.24	17.2	7.2	2.1
AMA 536	< 0.1	0.3	3.3	0.4	< 0.1	171	0.1	< 0.001	0.32	23.3	15.9	8.6
AMA 537	< 0.1	0.3	3.3	0.4	< 0.1	197	< 0.1	< 0.001	0.35	23.3	14.0	18.1
AMA 538	< 0.1	0.4	4.1	0.5	< 0.1	231	0.1	< 0.001	0.25	16.8	8.6	6.3
AMA 539	< 0.1	0.6	6.6	0.7	0.3	187	0.5	< 0.001	0.56	36.8	21.2	36.8
AMA 540	< 0.1	0.2	2.6	0.3	< 0.1	208	< 0.1	< 0.001	0.28	19.1	4.5	1.7
AMA 541	< 0.1	0.3	3.2	0.4	< 0.1	223	< 0.1	< 0.001	0.30	17.3	5.0	1.5
AMA 542	< 0.1	0.3	3.1	0.4	< 0.1	219	< 0.1	< 0.001	0.26	18.6	4.6	1.8
AMA 543	< 0.1	0.3	3.5	0.4	< 0.1	239	< 0.1	< 0.001	0.33	20.3	5.6	2.1
AMA 544	< 0.1	0.8	9.1	1.1	< 0.1	184	< 0.1	< 0.001	0.22	19.0	11.2	14.9

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Hg	Ag	Cs	Co	Eu	Bi	
Unit Symbol	ppm	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	
Lower Limit	1	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	0.01	0.1	0.5	0.1	0.1	0.1	10	0.05	0.05	0.1	0.05	0.02	
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	
GXR-1 Meas	6	11.0	0.07	0.34	4.30	0.05	0.83	2.0	71	12.9	788	23.8	0.7	39.3	0.9		2700	27.7	2.27	6.7	0.47	1330	
GXR-1 Cert	15.0	8.20	0.0520	0.217	3.52	0.050	0.960	3.30	80.0	12.0	852	23.6	0.960	41.0	1.22		3900	31.0	3.00	8.20	0.690	1380	
DH-1a Meas																							
DH-1a Cert																							
GXR-4 Meas	2	10.2	0.53	1.73	5.80	4.82	0.94	0.3	76	44.8	131	2.94	1.2	38.8	2.0		< 10	3.01	2.04	12.7	1.09	18.7	
GXR-4 Cert	4.50	11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	42.0	1.90		110	4.00	2.80	14.6	1.63	19.0	
SDC-1 Meas	3	34.1	1.63	1.06	3.80	3.00	0.99		30	47.4	782	4.72	0.7	34.8	2.8	3.0	1.1	30		3.26	15.7	1.21	
SDC-1 Cert	13.00	34.00	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	38.0	4.10	3.00	1.50	200.00		4.00	18.0	1.70	
GXR-6 Meas	8	35.7	0.11	0.67	< 0.01	1.91	0.18	< 0.1	88	41.9	875	5.23	1.6	22.9	1.1		60	0.25	3.15	11.6	0.46	0.18	
GXR-6 Cert	9.80	32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	27.0	1.40		68.0	1.30	4.20	13.8	0.760	0.290	
DNC-1a Meas		4.6							149	137				277						49.5	0.48		
DNC-1a Cert		5.20						148.0000	270					247						57.0	0.59		
SBC-1 Meas		161						0.3	215	66.2			3.3	87.4	2.8	3.3	1.1		6.71	19.4	1.55	0.74	
SBC-1 Cert		163.0						0.40	220.0	109			3.7	82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70	
SdAR-M2 (U.S.G.S.) Meas		16.4						4.2	22	46.8			3.8	48.6	2.1	6.9	0.8	950		1.41	11.2	1.08	1.12
SdAR-M2 (U.S.G.S.) Cert		17.9						5.1	25.2	49.6			7.29	48.8	3.58	6.6	1.21	1440.00		1.82	12.4	1.44	1.05
AMA 1 Orig	2	53.3	> 3.00	7.03	< 0.01	0.27	0.45	< 0.1	183	164	245	7.22	3.5	168	1.2	1.1	0.4	50	1.64	0.38	49.9	0.63	3.39
AMA 1 Dup	1	55.6	> 3.00	7.24	0.20	0.26	0.46	< 0.1	190	179	249	7.40	3.7	173	1.2	1.3	0.4	50	1.84	0.39	48.8	0.64	3.42
AMA 512 Orig	< 1	10.3	1.88	0.64	5.30	2.18	1.49	0.1	28	38.5	540	4.28	4.3	8.5	2.0	1.6	0.7	20	4.85	0.84	5.8	0.88	0.15
AMA 512 Dup	< 1	10.4	1.88	0.66	5.20	2.16	1.50	0.2	27	33.2	547	4.32	3.0	8.3	2.0	1.6	0.7	30	0.61	0.87	6.2	0.89	0.12
AMA 514 Orig	< 1	6.7	1.69	0.42	5.30	1.75	1.20	0.1	26	32.2	357	3.42	0.8	10.1	1.5	1.3	0.5	60	0.12	0.31	4.0	0.65	0.10
AMA 514 Dup	< 1	6.9	1.75	0.42	5.40	1.74	1.17	< 0.1	23	30.8	352	3.37	0.8	6.1	1.5	1.2	0.5	50	0.09	0.31	3.9	0.65	0.09
Method Blank	< 1	< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	< 0.5	< 1	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 10	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-1 Meas	17.5	726	4.7	382	2.7	20.9	40	0.7	20.1	0.6	21	20.1	6.6	1180	6.3	13.6		8.8	1.7	3.2	0.6	3.4	1050
GXR-1 Cert	16.6	760	13.8	427	14.0	32.0	38.0	0.800	18.0	0.770	54.0	122	13.0	750	7.50	17.0		18.0	2.70	4.20	0.830	4.30	1110
DH-1a Meas																							
DH-1a Cert																							
GXR-4 Meas	6.1	66.1	12.3	91.9	104	8.3	42	9.5	325	0.2	6	3.7	0.7	139	44.6	91.6		41.6	3.7	3.3	0.4	2.0	5660
GXR-4 Cert	5.60	73.0	20.0	98.0	160	14.0	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60	6520
SDC-1 Meas		99.8	13.2	< 0.1	85.4		29	< 0.1			< 1	< 0.1		624	33.0	74.9		42.1	4.9	5.3	0.8	4.8	29.7
SDC-1 Cert		103.00	21.00	0.220	127.00		290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70	30.000
GXR-6 Meas	0.6	121	18.2	198	52.4	7.7	64	0.2	0.23	< 0.1	< 1	0.1	< 0.1	1370	9.7	28.9		12.4	1.5	1.8	0.3	1.7	66.2
GXR-6 Cert	0.940	118	35.0	330	90.0	14.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80	66.0
DNC-1a Meas		72.8	10.3		2.8	11.2	44	1.7				0.6		106	3.2			5.3					100
DNC-1a Cert		70.0	15		5	18.0	38.0	3				0.96		118	3.6			5.20					100.00
SBC-1 Meas		190	16.1	22.7	102	20.5	133	9.9	4.69		3	0.9		672	-41.3	94.9	8.3	51.5	6.0	6.4	0.9	5.1	39.0
SBC-1 Cert		186.0	27.0	25.7	147	36.5	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10	31.0000
SdAR-M2 (U.S.G.S.) Meas		727	8.4		101	15.4	127	2.3	11.3					968	35.9	84.2	6.9	39.2	4.3	4.1	0.6	3.6	229
SdAR-M2 (U.S.G.S.) Cert		760	17.6		149	32.7	259	26.2	13.3					990	46.6	98.8	11.0	39.4	7.18	6.28	0.97	5.88	236.0000
AMA 1 Orig	0.8	76.4	16.0	24.4	3.5	7.9	143	5.9	27.1	0.2	2	0.2	< 0.1	133	16.2	38.0	3.6	22.7	2.6	2.6	0.3	1.8	7360
AMA 1 Dup	0.9	77.7	16.5	23.3	3.5	8.1	152	6.0	27.3	0.2	2	0.2	< 0.1	139	16.7	39.5	3.8	23.5	2.7	2.6	0.3	1.9	7510
AMA 512 Orig	0.4	58.0	10.8	< 0.1	35.3	14.3	184	< 0.1	0.09	< 0.1	< 1	< 0.1	< 0.1	906	15.5	39.3	3.2	19.9	2.5	3.0	0.5	3.0	6.3
AMA 512 Dup	0.1	58.5	10.8	< 0.1	35.2	14.4	144	< 0.1	0.07	< 0.1	< 1	< 0.1	< 0.1	908	16.9	43.0	3.6	21.9	2.7	3.1	0.5	3.1	5.3
AMA 514 Orig	0.2	29.3	9.8	< 0.1	25.0	10.0	61	< 0.1	0.06	< 0.1	< 1	< 0.1	< 0.1	711	9.8	32.5	2.2	13.2	1.7	2.1	0.3	2.3	12.5
AMA 514 Dup	0.1	30.1	10.2	< 0.1	25.7	10.2	61	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	723	11.2	35.2	2.4	14.3	1.9	2.1	0.3	2.3	5.7
Method Blank	< 0.1	< 0.2	< 0.1	< 0.1	< 0.2	< 0.1	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	Sr	W	Re	Ti	Pb	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.001	0.05	0.5	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-1 Meas		0.2	2.2	0.2	< 0.1	237	119		0.28	618	2.6	26.8
GXR-1 Cert		0.430	1.90	0.280	0.175	275	164		0.390	730	2.44	34.9
DH-1a Meas											> 500	2120
DH-1a Cert											910	2629
GXR-4 Meas		0.1	1.0	0.1	0.5	135	32.2		2.47	44.1	18.3	5.4
GXR-4 Cert		0.210	1.60	0.170	0.790	221	30.8		3.20	52.0	22.5	6.20
SDC-1 Meas		0.3	3.5		< 0.1	115	< 0.1		0.50	22.9	11.4	2.5
SDC-1 Cert		0.65	4.00		1.20	180.00	0.80		0.70	25.00	12.00	3.10
GXR-6 Meas			1.6	0.2	< 0.1	28.4	0.1		1.62	86.7	4.7	1.2
GXR-6 Cert			2.40	0.330	0.485	35.0	1.90		2.20	101	5.30	1.54
DNC-1a Meas			2.1			105				6.4		
DNC-1a Cert			2.0			144.0				6.3		
SBC-1 Meas		0.3	3.6	0.4	0.5	122	1.4		0.72	33.5	15.3	5.2
SBC-1 Cert		0.56	3.64	0.54	1.10	178.0	1.60		0.89	35.0	15.8	5.76
SdAR-M2 (U.S.G.S.) Meas		0.3	2.7	0.3	< 0.1	91.5	0.1			692	13.4	2.1
SdAR-M2 (U.S.G.S.) Cert		0.54	3.63	0.54	1.8	144	2.8			808	14.2	2.53
AMA 1 Orig	< 0.1	0.2	1.8	0.3	0.2	87.5	2.8	0.200	0.06	6.9	3.1	1.1
AMA 1 Dup	< 0.1	0.2	1.9	0.2	0.2	87.8	2.6	0.300	0.06	7.0	3.1	1.1
AMA 512 Orig	< 0.1	0.2	2.9	0.3	< 0.1	213	< 0.1	< 0.001	0.25	18.2	4.5	1.5
AMA 512 Dup	< 0.1	0.3	2.8	0.3	< 0.1	217	< 0.1	< 0.001	0.26	18.4	5.4	1.5
AMA 514 Orig	< 0.1	0.2	2.2	0.3	< 0.1	196	< 0.1	< 0.001	0.17	17.1	4.3	1.4
AMA 514 Dup	< 0.1	0.2	2.2	0.3	< 0.1	198	< 0.1	< 0.001	0.17	17.3	4.4	1.5
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 0.001	< 0.05	< 0.5	< 0.1	< 0.1

Appendix III

Cost Receipts



Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St.
Vancouver, BC Canada V6P 6E5
Phone 604 253 3158 Fax 604 253 1716
GST # 843013921 RT
QST # 1219972641

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

Invoice Date: January 26, 2016
Invoice Number: **VANI246291**
Submitted by: R.A. MacGregor
Email: macgregor.robert@shaw.ca
Job Number: VAN16000154
Order Number:
Project Code: None Given
Shipment ID:
Quote Number:

Item	Package	Description	Sample No.	Unit Price	Amount
1	SLBHP	Sort, label and box pulp samples	50	\$0.60	\$30.00
2	MA200	0.25g 4 Acid Digestion ICP-MS	50	\$18.75	\$937.50
3	DRPLP	Dispose or return handling of pulps	50	\$0.10	\$5.00
			Net Total		\$972.50
			Ontario HST		\$126.43
			Grand Total	CAD	\$1,098.93

Invoice Stated In Canadian Dollars

Payment Terms:

Due upon receipt of invoice. Please pay the last amount shown on the invoice.

For **cheque payments**, please remit payable to:
Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St.
Vancouver BC, V6P 6E5

Please specify invoice number on cheque remittance.

For **electronic payments**, please contact AccountReceivable.VAN@acmelab.com for banking details.

For any enquiries please contact us at AccountReceivable.VAN@acmelab.com

Recd. 2/16
Skene 1357

Quality Analysis ...



Innovative Technologies

This is your final copy. If you require an original to be mailed by post please advise, otherwise this email will be deemed sufficient.

Invoice No.: **A16-02228**
Purchase Order:
Invoice Date: **11-Apr-16**
Date submitted: **17-Mar-16**
Your Reference:
GST #: **R121979355**

R.A. McGregor
28 Ford Street
Sault Ste. Marie Ontario P6A 4N4
Canada

ATTN: **R.A. MacGregor**

INVOICE

No. samples	Description	Unit Price	Total
71	UT-4	\$ 25.00	\$ 1,775.00
		Subtotal: :	\$ 1,775.00
		HST-13% :	\$ 230.75
		AMOUNT DUE: (CAD) :	\$ 2,005.75

paid by
Bank transfer
14/04/16

Net 30 days. 1 1/2 % per month charged on overdue accounts.

Bank Transfers can be made to:
ACTIVATION LABORATORIES LTD at
ROYAL BANK OF CANADA
59 WILSON STREET WEST
ANCASTER, ONTARIO CANADA L9G 1N1
TRANSIT #: 00102 003 ACCOUNT #: 100 154 4
SWIFT CODE#: ROYCCAT2

Please reference the invoice number when making a payment by Bank/Wire transfer. Intermediary Bank Fees are the responsibility of the client.
Thank you!



ACTIVATION LABORATORIES LTD.

41 Bittern Street, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or
+1.888.228.5227 FAX +1.905.648.9613

E-MAIL ancaster@actlabs.com ACTLABS GROUP WEBSITE <http://www.actlabs.com>

Appendix IV
Sample Photos



10/05/2012 PM 11:24

49188

10/05/2012 PM 11:24

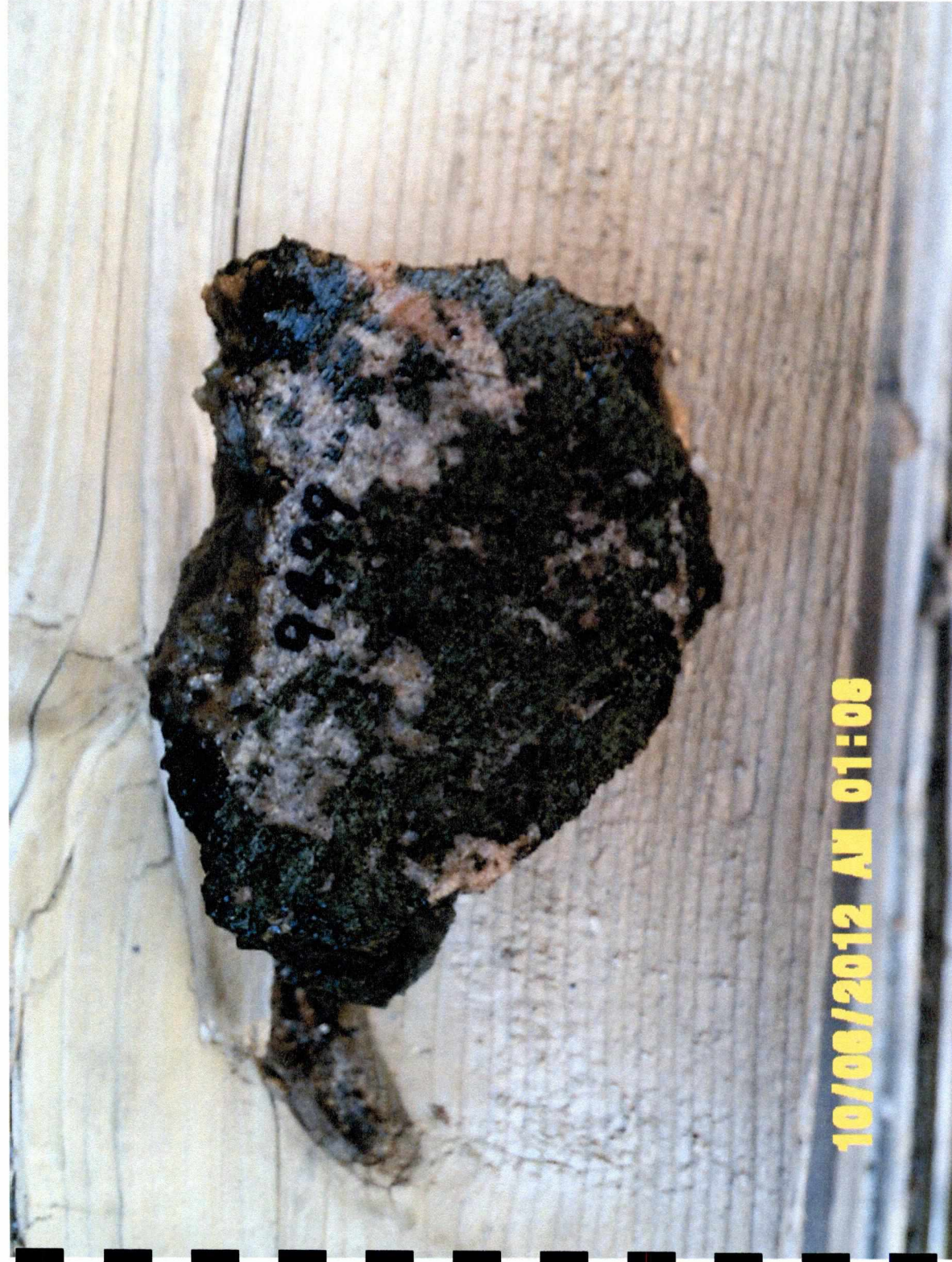
491896

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49190E

10/06/2012 PM 11:25









№ 9500

Mine

10/06/2012 AM 01:20