



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

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

**Client: BC Geological Survey**  
Ministry of Energy, Mines & Petroleum  
3rd Floor - 865 Hornby St.  
Vancouver British Columbia V6Z 2G3 Canada

Submitted By: Bruce Northcote  
Receiving Lab: Canada-Vancouver  
Received: June 18, 2020  
Analysis Start: July 06, 2020  
Report Date: July 21, 2020  
Page: 1 of 2

# CERTIFICATE OF ANALYSIS

VAN20001146.1

## CLIENT JOB INFORMATION

Project: Mount Sicker  
Shipment ID:  
P.O. Number: GS18MAN0021  
Number of Samples: 2

## SAMPLE DISPOSAL

RTRN-PLP Return After 90 days  
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

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: B.C. Ministry of Energy and Mines  
P.O. Box 9333 Stn. Prov. Gov't  
Geological Survey Branch  
Victoria British Columbia V8W 9N3  
Canada

CC:

## 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
DY060	2	Dry at 60C			VAN
SS80	2	Dry at 60C sieve 100g to -80 mesh			VAN
SVRJT	2	Save all or part of Soil Reject			VAN
AQ252_EXT_REE	2	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	30	Completed	VAN
LF600	1	XRF Whole Rock & ICP-MS Trace Elements	0.66	Completed	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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# CERTIFICATE OF ANALYSIS

VAN20001146.1

Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001	
Blue Clay Dried	Soil	61.42	8466.18	1041.32	>10000	17762	15.5	8.2	310	3.51	471.0	0.5	488.4	0.7	58.4	92.49	27.70	1.61	19	0.48	0.067
Blue Clay Top Layer	Soil	48.14	432.25	219.08	965.6	16338	1.7	0.5	19	4.30	468.6	0.2	596.0	0.8	35.9	4.00	21.01	1.30	18	0.08	0.105



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# CERTIFICATE OF ANALYSIS

**VAN20001146.1**

Method	Analyte	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
Blue Clay Dried	Soil	2.1	11.1	0.64	47.2	0.001	<1	1.52	0.009	0.06	0.1	4.6	0.18	2.25	899	3.9	2.69	3.2	0.40	<0.1	0.06
Blue Clay Top Layer	Soil	2.1	18.6	0.26	303.2	0.002	<1	0.55	0.006	0.05	<0.1	1.4	0.13	0.36	707	3.1	1.95	10.8	0.16	0.1	0.02



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# CERTIFICATE OF ANALYSIS

VAN20001146.1

Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
Blue Clay Dried	Soil	<0.02	1.2	0.8	<0.05	3.2	5.73	5.2	0.08	2	0.1	4.0	0.79	4.00	1.37	0.60	1.48	0.22	1.23	0.23	0.53
Blue Clay Top Layer	Soil	<0.02	0.6	0.3	<0.05	1.3	1.78	3.9	0.47	2	<0.1	1.5	0.50	2.02	0.55	0.18	0.48	0.08	0.43	0.07	0.18



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# CERTIFICATE OF ANALYSIS

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Method	AQ252	AQ252	AQ252	AQ252	AQ252	XF700	XF700	XF700	XF700	XF700	XF700	XF700	XF700	XF700	XF700	XF700	XF700	XF700	XF700	XF700	
Analyte	Tm	Yb	Lu	Pd	Pt	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	LOI	SO3	Sr	
Unit	ppm	ppm	ppm	ppb	ppb	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
MDL	0.02	0.02	0.02	10	2	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.002	0.002	
Blue Clay Dried	Soil	0.06	0.48	0.07	*	2	49.61	13.28	5.54	0.70	1.64	0.60	1.85	0.04	0.39	0.18	<0.01	10.53	6.86	>10	0.056
Blue Clay Top Layer	Soil	<0.02	0.14	<0.02	<10	<2															



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# CERTIFICATE OF ANALYSIS

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Method	TC000	TC000	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	
Analyte	TOT/C	TOT/S	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	
Unit	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.02	0.02	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	
Blue Clay Dried	Soil	0.50	4.67	>50000	<1	7.2	0.7	16.3	2.4	4.1	25.3	1	866.3	0.5	2.6	2.6	149	1.9	82.9	14.4	13.9
Blue Clay Top Layer	Soil																				



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**CERTIFICATE OF ANALYSIS** **VAN20001146.1**

Method	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	
Blue Clay Dried	Soil	20.5	2.66	10.4	2.42	*	3.24	0.42	3.47	0.51	1.52	0.25	1.74	0.27	61.9	8401.9	980.8	>10000	15.4	463.6	93.4
Blue Clay Top Layer	Soil																				

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# CERTIFICATE OF ANALYSIS

VAN20001146.1

Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Sb	Bi	Ag	Au	Hg	Tl	Se
Unit	ppm	ppm	ppm	ppb	ppm	ppm	ppm
MDL	0.1	0.1	0.1	0.5	0.01	0.1	0.5
Blue Clay Dried Soil	27.2	1.6	17.8	467.6	0.89	0.2	3.5
Blue Clay Top Layer Soil							





# QUALITY CONTROL REPORT

VAN20001146.1

Method	Analyte	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001
Pulp Duplicates																					
Blue Clay Dried	Soil	61.42	8466.18	1041.32	>10000	17762	15.5	8.2	310	3.51	471.0	0.5	488.4	0.7	58.4	92.49	27.70	1.61	19	0.48	0.067
REP Blue Clay Dried	QC																				
Reference Materials																					
STD BVGEO01	Standard																				
STD DS11	Standard	14.72	146.60	137.18	338.8	1746	79.2	14.5	1038	3.14	43.1	2.3	73.8	7.7	63.3	2.28	7.32	11.01	48	1.06	0.073
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD OREAS184	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard	0.70	114.36	57.00	151.3	461	65.3	28.7	558	3.23	36.1	1.1	62.7	8.6	33.2	0.66	3.79	0.93	22	3.00	0.037
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SY-3(D)	Standard																				
STD BVGEO01 Expected																					
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD SO-19 Expected																					
STD DS11 Expected		14.6	149	138	345	1710	77.7	14.2	1055	3.1	42.8	2.59	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701
STD OREAS262 Expected		0.68	118	56	154	450	62	26.9	530	3.284	35.8	1.22	65	9.33	36	0.61	5.06	1.03	22.5	2.98	0.04
STD OREAS184 Expected																					
STD SY-3(D) Expected																					
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.01	<0.01	<0.01	<0.1	3	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001
SI BLK	Blank																				



# QUALITY CONTROL REPORT

VAN20001146.1

Method	Analyte	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	
Pulp Duplicates																					
Blue Clay Dried	Soil	2.1	11.1	0.64	47.2	0.001	<1	1.52	0.009	0.06	0.1	4.6	0.18	2.25	899	3.9	2.69	3.2	0.40	<0.1	0.06
REP Blue Clay Dried	QC																				
Reference Materials																					
STD BVGE001	Standard																				
STD DS11	Standard	18.3	63.5	0.85	378.5	0.095	6	1.16	0.072	0.39	2.9	3.3	4.86	0.27	260	1.8	4.63	5.2	2.81	0.2	0.08
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD OREAS184	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard	16.9	45.9	1.19	263.6	0.003	4	1.36	0.067	0.30	0.2	3.3	0.46	0.26	166	0.3	0.22	4.2	2.63	<0.1	0.24
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SY-3(D)	Standard																				
STD BVGE001 Expected																					
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD SO-19 Expected																					
STD DS11 Expected		18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	3.4	4.9	0.2835	260	2.2	4.56	5.1	2.88	0.08	0.06
STD OREAS262 Expected		15.9	41.7	1.17	248	0.0027	4	1.3	0.071	0.312	0.2	3.24	0.47	0.253	170	0.4	0.23	4.1	2.8		0.27
STD OREAS184 Expected																					
STD SY-3(D) Expected																					
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
SI BLK	Blank																				



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# QUALITY CONTROL REPORT

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Method		AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	
Analyte		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
Pulp Duplicates																						
Blue Clay Dried	Soil	<0.02	1.2	0.8	<0.05	3.2	5.73	5.2	0.08	2	0.1	4.0	0.79	4.00	1.37	0.60	1.48	0.22	1.23	0.23	0.53	
REP Blue Clay Dried	QC																					
Reference Materials																						
STD BVGE001	Standard																					
STD DS11	Standard	1.66	33.3	1.8	<0.05	3.2	7.98	36.0	0.26	45	0.7	21.4	3.83	14.31	2.64	0.53	2.14	0.31	1.73	0.26	0.91	
STD GS311-1	Standard																					
STD GS910-4	Standard																					
STD OREAS184	Standard																					
STD OREAS262	Standard																					
STD OREAS262	Standard	<0.02	18.3	0.5	<0.05	9.4	10.65	34.6	0.03	<1	0.9	16.5	4.20	15.65	3.38	0.67	2.84	0.44	2.18	0.39	1.05	
STD SO-19	Standard																					
STD SO-19	Standard																					
STD SY-3(D)	Standard																					
STD BVGE001 Expected																						
STD GS311-1 Expected																						
STD GS910-4 Expected																						
STD SO-19 Expected																						
STD DS11 Expected		1.53	33.6	1.8		3.1	7.82	37	0.24	50	0.67	23.3	4	14.9	2.68	0.54	2.22	0.29	1.57	0.29	0.81	
STD OREAS262 Expected			18.6	0.5		11.7	11.2	32	0.033		1.14	17.8	4	15	3.3	0.72	2.93	0.43	2.29	0.41	1.07	
STD OREAS184 Expected																						
STD SY-3(D) Expected																						
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	0.02	<0.02	<0.02	<0.02	<0.02	0.02	<0.02	<0.02	<0.02	
SI BLK	Blank																					



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# QUALITY CONTROL REPORT

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Method	AQ252	AQ252	AQ252	AQ252	AQ252	XF700	XF700	XF700	XF700	XF700	XF700	XF700	XF700	XF700	XF700	XF700	XF700	XF700	XF700	XF700	XF700
Analyte	Tm	Yb	Lu	Pd	Pt	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	LOI	SO3	Sr	
Unit	ppm	ppm	ppm	ppb	ppb	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
MDL	0.02	0.02	0.02	10	2	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.002	0.002	
Pulp Duplicates																					
Blue Clay Dried	Soil	0.06	0.48	0.07	*	2	49.61	13.28	5.54	0.70	1.64	0.60	1.85	0.04	0.39	0.18	<0.01	10.53	6.86	>10	0.056
REP Blue Clay Dried	QC						49.33	13.21	5.52	0.70	1.62	0.59	1.84	0.04	0.39	0.17	<0.01	10.45	6.86	>10	0.051
Reference Materials																					
STD BVGE001	Standard																				
STD DS11	Standard	0.11	0.74	0.10	115	181															
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD OREAS184	Standard						42.32	4.62	39.17	0.22	3.04	<0.01	<0.01	0.66	0.06	0.02	1.75	0.02	6.24	<0.002	0.003
STD OREAS262	Standard																				
STD OREAS262	Standard	0.15	0.92	0.13	<10	<2															
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SY-3(D)	Standard						59.63	11.64	6.40	8.31	2.66	4.14	4.21	0.32	0.15	0.55	<0.01	0.04	0.90	0.126	0.030
STD BVGE001 Expected																					
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD SO-19 Expected																					
STD DS11 Expected		0.11	0.75	0.11	100	172															
STD OREAS262 Expected		0.14	0.9	0.13																	
STD OREAS184 Expected							42.25	4.62	39.3	0.216	3.05			0.676	0.06	0.017	1.75		6.24		
STD SY-3(D) Expected							59.68	11.8	6.42	8.26	2.67	4.15	4.2	0.32	0.15	0.54				0.125	
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.02	<0.02	<0.02	<10	<2															
SI BLK	Blank						99.44	0.32	0.02	0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	0.00	<0.002	<0.002



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**Client: BC Geological Survey**  
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Project: Mount Sicker  
Report Date: July 21, 2020

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# QUALITY CONTROL REPORT

VAN20001146.1

Method	TC000	TC000	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	
Analyte	TOT/C	TOT/S	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	
Unit	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.02	0.02	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	
Pulp Duplicates																					
Blue Clay Dried	Soil	0.50	4.67	>50000	<1	7.2	0.7	16.3	2.4	4.1	25.3	1	866.3	0.5	2.6	2.6	149	1.9	82.9	14.4	13.9
REP Blue Clay Dried	QC			>50000	<1	7.4	0.9	16.1	2.4	4.3	25.5	1	864.8	0.5	2.8	2.6	150	2.1	83.4	14.7	14.7
Reference Materials																					
STD BVGEO01	Standard																				
STD DS11	Standard																				
STD GS311-1	Standard	0.98	2.32																		
STD GS910-4	Standard	2.62	8.34																		
STD OREAS184	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD SO-19	Standard			467	21	23.5	4.5	16.0	3.1	69.2	18.7	18	301.4	4.7	12.1	18.6	159	11.1	109.4	33.2	66.8
STD SO-19	Standard			481	20	22.0	4.2	15.5	3.2	67.7	18.8	17	300.1	4.4	12.6	18.9	158	10.7	110.0	34.0	65.1
STD SY-3(D)	Standard																				
STD BVGEO01 Expected																					
STD GS311-1 Expected		1.02	2.35																		
STD GS910-4 Expected		2.65	8.27																		
STD SO-19 Expected				486	20	24	4.5	17.5	3.1	68.5	19.5	19	317.1	4.9	13	19.4	165	9.8	112	35.5	71.3
STD DS11 Expected																					
STD OREAS262 Expected																					
STD OREAS184 Expected																					
STD SY-3(D) Expected																					
BLK	Blank																				
BLK	Blank	<0.02	<0.02																		
BLK	Blank			2	<1	<0.2	<0.1	<0.5	<0.1	0.3	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	0.3	<0.1	<0.1
BLK	Blank																				
SI BLK	Blank																				



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# QUALITY CONTROL REPORT

VAN20001146.1

Method	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	
Pulp Duplicates																					
Blue Clay Dried	Soil	20.5	2.66	10.4	2.42	*	3.24	0.42	3.47	0.51	1.52	0.25	1.74	0.27	61.9	8401.9	980.8	>10000	15.4	463.6	93.4
REP Blue Clay Dried	QC	21.5	2.70	10.9	2.49	*	3.23	0.42	3.48	0.52	1.66	0.26	1.73	0.28							
Reference Materials																					
STD BVGE001	Standard													10.2	4347.6	181.9	1739	161.2	115.8	5.9	
STD DS11	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD OREAS184	Standard																				
STD OREAS262	Standard													0.6	117.1	57.1	153	67.6	35.7	0.6	
STD OREAS262	Standard																				
STD SO-19	Standard	146.2	18.53	71.4	12.40	3.47	9.62	1.33	6.98	1.30	3.69	0.52	3.41	0.47							
STD SO-19	Standard	142.5	18.35	69.5	12.46	3.33	9.84	1.29	7.06	1.29	3.62	0.52	3.27	0.52							
STD SY-3(D)	Standard																				
STD BVGE001 Expected														10.8	4415	187	1741	163	121	6.5	
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD SO-19 Expected		161	19.4	75.7	13.7	3.81	10.53	1.41	7.5	1.39	3.78	0.55	3.55	0.53							
STD DS11 Expected																					
STD OREAS262 Expected														0.68	118	56	154	62	35.8	0.61	
STD OREAS184 Expected																					
STD SY-3(D) Expected																					
BLK	Blank													<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	
BLK	Blank																				
BLK	Blank	<0.1	<0.02	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01							
BLK	Blank																				
SI BLK	Blank																				



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# QUALITY CONTROL REPORT

VAN20001146.1

Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Sb	Bi	Ag	Au	Hg	Tl	Se
Unit		ppm	ppm	ppm	ppb	ppm	ppm	ppm
MDL		0.1	0.1	0.1	0.5	0.01	0.1	0.5
Pulp Duplicates								
Blue Clay Dried	Soil	27.2	1.6	17.8	467.6	0.89	0.2	3.5
REP Blue Clay Dried	QC							
Reference Materials								
STD BVGE001	Standard	2.7	23.7	2.5	204.8	0.09	0.6	4.6
STD DS11	Standard							
STD GS311-1	Standard							
STD GS910-4	Standard							
STD OREAS184	Standard							
STD OREAS262	Standard	2.6	1.0	0.5	56.2	0.15	0.5	0.6
STD OREAS262	Standard							
STD SO-19	Standard							
STD SO-19	Standard							
STD SY-3(D)	Standard							
STD BVGE001 Expected		2.2	25.6	2.53	219	0.1	0.62	4.84
STD GS311-1 Expected								
STD GS910-4 Expected								
STD SO-19 Expected								
STD DS11 Expected								
STD OREAS262 Expected		3.39	1.03	0.45	65	0.17	0.47	0.4
STD OREAS184 Expected								
STD SY-3(D) Expected								
BLK	Blank	<0.1	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5
BLK	Blank							
BLK	Blank							
BLK	Blank							
SI BLK	Blank							