



**BUREAU
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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:

Palmer

470 Granville St. - Suite 630

Vancouver British Columbia V6C 1V5 Canada

Submitted By: Dave Sacco
Receiving Lab: Canada-Vancouver
Received: February 15, 2023
Analysis Start: February 17, 2023
Report Date: March 22, 2023
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CERTIFICATE OF ANALYSIS

VAN23000245.2

CLIENT JOB INFORMATION

Project: AER
Shipment ID:
P.O. Number 2207801
Number of Samples: 31

SAMPLE DISPOSAL

IMM-PLP Return immediately after analysis
DISP-RJT Dispose of Reject After 60 days

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS230	27	Dry at 60C sieve 100g to -230 mesh			VAN
SLBHP	4	Sort, label and box pulps			VAN
SVRJT	27	Save all or part of Soil Reject			VAN
LF100-EXT	31	LiBO2/Li2B4O7 fusion ICP-MS analysis	0.2	Completed	VAN
LF300	31	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed	VAN
TC000-C	31	Total C Analysis by Leco	0.1	Completed	VAN
TC005	31	Graphite and Organic C by Leco After Ignition	0.1	Completed	VAN
TC006	31	Inorganic Carbon	0.2	Completed	VAN
AQ252_EXT_REE	31	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	30	Completed	VAN
AQ251_EXT_REE	31	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Version 2: Includes AQ251_EXT_REE

Invoice To: Palmer
470 Granville St. - Suite 630
Vancouver British Columbia V6C 1V5
Canada

CC: Dean Meek


Martin Wong
Data Validation Specialist

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

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		Method	WGHT	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100
		Analyte	Wgt	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		MDL	0.01	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	0.1
AER23TS-3119	Till		1.21	878	<1	12.2	5.9	14.4	5.7	14.0	98.1	2	165.8	0.8	11.7	4.4	185	1.7	225.1	29.2	37.1	73.6
AER23TS-3120	Till		1.22	902	2	11.7	6.7	15.7	5.5	14.7	101.8	2	152.2	1.0	11.1	4.7	188	1.2	207.3	27.3	36.9	71.0
AER23TS-3121	Till		1.65	798	<1	10.3	4.9	12.6	6.3	14.1	84.7	1	160.2	0.8	10.7	4.8	152	1.7	259.4	26.4	35.7	67.7
AER23TS-3122	Till		2.31	850	1	11.3	6.2	15.3	5.3	14.6	98.2	2	155.1	0.9	11.4	4.4	176	1.4	204.1	26.2	35.5	66.1
AER23TS-3123	Till		2.02	877	<1	10.8	5.9	14.8	5.3	14.2	97.9	2	151.2	1.0	11.4	4.5	168	1.2	191.4	26.8	36.8	70.2
AER23TS-3124	Till		2.18	993	<1	11.9	6.6	13.9	4.9	13.8	95.6	2	149.5	1.1	11.5	4.6	158	1.6	198.9	26.9	36.7	69.4
AER23TS-3125	Till		2.27	843	<1	9.0	4.8	10.3	6.6	12.1	79.5	1	144.6	0.7	10.5	4.4	141	1.0	255.6	24.1	31.8	61.0
AER23TS-3126	Till		2.10	820	1	10.5	3.8	10.4	10.5	12.0	69.0	<1	145.0	0.8	10.8	4.2	115	1.1	422.5	28.1	32.7	63.7
AER23TS-3127	Till		0.81	735	3	15.0	6.4	15.5	4.2	13.5	106.9	2	150.1	0.8	11.1	7.4	188	1.3	161.4	24.7	38.1	69.3
AER23TS-3128	Till		0.91	740	3	14.4	6.6	14.7	4.2	13.1	109.2	2	148.8	0.9	11.5	7.5	189	1.6	143.4	23.3	37.0	67.9
AER23TS-3129	Till		1.09	753	1	13.7	6.6	15.5	4.2	12.7	108.6	2	158.2	0.9	11.8	7.0	184	1.4	157.3	23.2	37.1	70.8
AER23TS-3130	Pulp DUP			828	2	13.5	7.1	18.0	4.0	13.2	120.2	2	175.0	1.1	12.6	6.1	190	1.7	150.8	24.3	40.8	76.5
AER23TS-3131	Till		0.93	795	<1	14.2	6.8	15.8	4.2	13.2	116.4	2	171.2	0.9	12.4	6.5	187	1.4	156.9	24.2	38.6	71.8
AER23TS-3132	Till		1.36	782	1	15.6	7.0	18.1	4.8	13.3	121.5	2	176.7	1.0	12.9	4.3	198	1.6	162.2	24.0	41.5	78.4
AER23TS-3133	Till		1.16	783	1	13.2	6.8	17.3	4.2	13.4	117.2	2	171.5	0.9	12.0	5.2	186	1.8	147.9	24.6	40.5	72.4
AER23TS-3134	Till		1.54	757	2	11.0	7.3	18.5	4.1	12.9	118.2	2	173.6	0.8	12.4	3.7	188	1.6	147.9	24.2	40.3	77.4
AER23TS-3135	Till		1.04	753	<1	14.7	6.5	14.8	4.3	12.9	104.3	2	166.0	0.9	11.4	6.0	176	1.4	154.7	24.1	36.0	68.4
AER23TS-3136	Rock Pulp		0.07	441	2	47.4	1.8	11.7	4.0	15.3	34.9	6	372.5	0.5	3.5	0.7	56	0.5	145.2	10.5	30.9	53.8
AER23TS-3137	Till		1.15	686	<1	14.5	6.1	14.4	4.6	12.7	99.9	1	150.8	0.9	11.1	7.9	161	1.1	170.4	24.3	34.9	66.2
AER23TS-3138	Till		1.21	745	<1	15.1	6.0	13.9	4.7	12.9	99.5	2	154.3	0.8	10.4	7.0	162	1.2	169.5	23.7	33.9	62.5
AER23TS-3139	Till		0.94	710	1	15.9	6.8	15.6	4.5	12.4	104.3	2	152.1	0.8	11.1	7.4	169	4.0	174.7	24.7	37.2	67.4
AER23TS-3140	Till		0.96	688	5	17.3	6.0	14.8	4.8	13.2	100.8	2	148.4	1.0	10.9	8.3	175	1.9	176.5	23.2	36.4	67.7
AER23TS-3141	Till		0.97	756	1	13.6	5.7	13.5	5.6	13.3	95.0	1	140.2	0.9	11.3	6.9	146	1.5	211.4	27.3	35.9	67.4
AER23TS-3142	Till		1.15	759	1	17.5	6.8	15.2	4.4	14.5	103.9	1	136.3	1.0	10.4	9.5	181	1.3	167.5	25.6	36.8	66.9
AER23TS-3143	Till		0.86	687	1	14.9	5.7	13.3	4.4	12.6	95.9	1	143.6	0.8	10.9	8.3	153	1.3	171.5	22.0	33.6	66.1
AER23TS-3144	Till		1.02	693	<1	13.6	5.7	13.7	6.1	13.6	93.3	2	135.8	0.9	10.9	6.3	137	1.9	213.8	22.5	34.4	68.5
AER23TS-3145	Till		0.88	770	2	14.6	6.2	15.4	5.4	12.9	98.5	1	157.9	0.8	12.5	7.6	158	1.6	188.2	24.1	37.3	71.0
AER23TS-3146	Till		1.03	717	2	15.5	6.3	15.5	5.2	13.8	105.7	2	145.2	0.9	11.3	8.5	176	1.9	187.5	24.4	36.9	66.9
AER23TS-3147	Till		1.34	670	2	16.8	6.7	15.2	4.6	13.0	103.3	1	152.1	0.9	11.4	8.5	168	1.4	173.9	24.2	35.3	66.6
AER23TS-3148	Rock Pulp		0.06	453	<1	50.3	1.8	12.1	4.0	15.6	35.8	5	392.1	0.4	3.7	0.8	56	<0.5	156.0	11.9	31.9	55.8



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Method Analyte Unit MDL		LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		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	0.1
AER23TS-3119	Till	8.44	30.7	5.83	1.31	5.46	0.83	5.02	0.96	2.88	0.42	2.79	0.45	2.4	33.5	13.9	107	32.6	12.0	0.5	0.3
AER23TS-3120	Till	8.24	31.7	5.67	1.23	5.21	0.76	4.97	0.98	2.82	0.41	2.76	0.41	2.6	36.6	14.4	114	35.2	12.9	0.5	0.4
AER23TS-3121	Till	8.04	29.5	5.49	1.15	4.96	0.76	4.60	0.94	2.69	0.41	2.45	0.41	3.0	28.8	12.4	91	32.5	11.7	0.4	0.4
AER23TS-3122	Till	8.07	31.0	5.47	1.20	5.11	0.76	4.61	0.95	2.69	0.41	2.60	0.42	2.3	34.7	14.2	115	32.5	11.9	0.5	0.4
AER23TS-3123	Till	8.14	31.0	5.57	1.21	5.18	0.80	4.60	0.98	2.80	0.41	2.61	0.42	2.4	33.8	14.7	116	35.0	12.8	0.6	0.4
AER23TS-3124	Till	8.02	30.3	5.56	1.15	4.86	0.77	4.55	0.96	2.88	0.41	2.55	0.44	2.1	33.3	15.2	117	35.6	12.4	0.5	0.4
AER23TS-3125	Till	7.28	26.5	5.01	1.12	4.57	0.70	4.29	0.88	2.47	0.37	2.52	0.39	2.5	32.6	12.1	97	28.4	10.6	0.5	0.4
AER23TS-3126	Till	7.52	28.3	5.21	1.11	5.08	0.78	4.80	1.03	2.97	0.43	2.94	0.46	2.1	27.9	12.3	108	30.9	14.1	0.5	0.4
AER23TS-3127	Till	8.05	30.1	5.35	1.11	4.58	0.72	4.12	0.88	2.58	0.37	2.40	0.38	8.5	39.6	13.8	147	45.1	16.5	1.4	0.6
AER23TS-3128	Till	7.97	30.2	5.36	1.13	4.49	0.65	4.00	0.80	2.39	0.35	2.38	0.36	7.8	38.7	12.9	137	41.0	17.2	1.2	0.5
AER23TS-3129	Till	8.08	30.0	5.31	1.06	4.50	0.67	4.05	0.86	2.53	0.35	2.18	0.35	8.1	37.3	13.2	135	40.1	16.3	1.3	0.6
AER23TS-3130	Pulp DUP	8.75	31.0	5.41	1.15	5.02	0.73	4.20	0.87	2.51	0.38	2.28	0.37	5.2	34.7	13.5	116	39.9	13.1	0.9	0.5
AER23TS-3131	Till	8.26	32.0	5.56	1.15	4.93	0.68	4.40	0.87	2.58	0.36	2.48	0.37	5.4	34.1	12.7	116	40.1	13.3	1.0	0.5
AER23TS-3132	Till	8.90	34.3	5.59	1.20	5.01	0.73	4.29	0.86	2.56	0.38	2.45	0.38	1.2	30.2	13.0	88	39.9	8.8	0.3	0.3
AER23TS-3133	Till	8.50	32.8	5.53	1.11	4.94	0.69	4.19	0.83	2.60	0.34	2.37	0.35	5.2	36.6	13.6	124	40.7	13.7	0.9	0.5
AER23TS-3134	Till	8.95	33.1	5.82	1.12	4.88	0.71	4.24	0.86	2.52	0.37	2.63	0.36	1.0	31.2	13.6	88	37.3	9.3	0.3	0.3
AER23TS-3135	Till	7.85	29.2	5.44	1.11	4.76	0.73	4.34	0.84	2.54	0.36	2.43	0.39	7.7	37.2	14.0	134	44.4	14.8	1.1	0.5
AER23TS-3136	Rock Pulp	6.41	23.5	3.57	1.01	2.77	0.37	2.02	0.40	1.10	0.15	1.07	0.14	12.0	156.4	258.8	211	79.5	9.5	0.5	0.2
AER23TS-3137	Till	7.63	29.3	5.61	1.11	4.69	0.70	4.12	0.87	2.57	0.36	2.35	0.35	11.5	36.0	13.8	141	41.5	19.0	1.4	0.6
AER23TS-3138	Till	7.52	29.0	5.08	1.06	4.49	0.67	4.00	0.81	2.35	0.34	2.21	0.37	7.8	35.2	12.8	127	43.2	15.1	1.1	0.5
AER23TS-3139	Till	7.90	29.2	5.34	1.12	4.63	0.71	4.32	0.86	2.56	0.35	2.35	0.35	9.5	37.1	13.8	137	44.0	16.3	1.2	0.6
AER23TS-3140	Till	7.92	29.0	5.27	1.07	4.74	0.72	4.24	0.89	2.66	0.37	2.44	0.36	13.0	39.9	13.8	151	47.8	19.4	1.6	0.5
AER23TS-3141	Till	8.03	30.8	5.49	1.14	4.99	0.78	4.55	0.94	2.69	0.39	2.50	0.41	6.6	31.5	13.7	133	35.7	14.6	0.9	0.5
AER23TS-3142	Till	7.92	29.1	5.53	1.15	4.92	0.73	4.34	0.89	2.62	0.37	2.38	0.37	16.0	40.0	14.4	170	49.0	19.9	1.5	0.6
AER23TS-3143	Till	7.50	29.0	5.06	1.02	4.70	0.66	4.45	0.80	2.57	0.35	2.30	0.34	12.1	33.9	13.6	142	42.9	17.6	1.1	0.5
AER23TS-3144	Till	7.58	27.5	5.01	0.98	4.50	0.66	4.14	0.84	2.52	0.35	2.42	0.37	6.7	27.5	13.4	124	33.1	13.0	0.7	0.4
AER23TS-3145	Till	8.31	31.3	5.75	1.13	4.98	0.72	4.22	0.87	2.59	0.37	2.35	0.37	8.0	32.7	13.7	135	39.6	15.4	1.1	0.4
AER23TS-3146	Till	7.95	31.1	5.29	1.10	4.68	0.69	4.19	0.88	2.59	0.36	2.47	0.38	11.5	33.6	13.5	138	42.0	16.6	1.3	0.5
AER23TS-3147	Till	7.93	29.9	5.42	1.10	4.76	0.71	4.12	0.89	2.50	0.36	2.33	0.37	11.5	35.8	13.4	139	44.4	17.0	1.3	0.6
AER23TS-3148	Rock Pulp	6.42	22.9	3.65	0.95	2.87	0.37	1.94	0.40	1.19	0.16	1.02	0.16	11.8	152.3	257.5	207	79.4	9.4	0.5	0.2



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Method Analyte Unit MDL		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300
		Bi	Ag	Au	Hg	Tl	Se	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr
		ppm	ppm	ppb	ppm	ppm	ppm	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
		0.1	0.1	0.5	0.01	0.1	0.5	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
AER23TS-3119	Till	0.2	0.3	1.6	0.10	0.2	1.3	64.58	12.40	4.69	1.89	3.07	0.58	2.37	0.65	0.20	0.04	0.011	869	38	156
AER23TS-3120	Till	0.3	0.3	1.0	0.10	0.2	1.7	64.40	13.22	4.79	1.85	2.48	0.53	2.52	0.68	0.21	0.04	0.013	917	39	153
AER23TS-3121	Till	0.2	0.3	2.2	0.07	0.2	1.1	66.26	11.15	5.12	1.62	3.39	0.70	2.07	0.63	0.18	0.07	0.010	798	36	159
AER23TS-3122	Till	0.2	0.3	1.3	0.08	0.2	1.6	64.10	12.96	4.66	1.93	2.71	0.58	2.46	0.67	0.20	0.04	0.012	897	41	158
AER23TS-3123	Till	0.3	0.3	1.3	0.09	0.2	1.6	64.25	13.49	5.12	1.78	2.05	0.57	2.42	0.69	0.20	0.04	0.013	917	38	154
AER23TS-3124	Till	0.3	0.3	1.4	0.10	0.2	1.5	63.91	13.41	5.09	1.75	2.39	0.60	2.38	0.70	0.20	0.04	0.013	1031	40	156
AER23TS-3125	Till	0.2	0.3	1.3	0.09	0.2	1.8	64.95	10.62	4.08	2.11	4.69	0.62	2.21	0.60	0.20	0.04	0.010	904	35	152
AER23TS-3126	Till	0.2	0.3	1.3	0.07	0.2	1.3	67.55	9.76	5.65	1.88	3.32	0.71	2.02	0.62	0.20	0.10	0.010	843	33	151
AER23TS-3127	Till	0.3	0.4	1.5	0.06	0.3	2.6	56.31	14.04	5.31	2.74	4.76	0.45	2.63	0.63	0.17	0.04	0.013	768	51	158
AER23TS-3128	Till	0.2	0.4	1.5	0.05	0.3	2.3	54.61	14.06	5.48	3.14	5.37	0.51	2.72	0.62	0.16	0.04	0.012	799	49	160
AER23TS-3129	Till	0.3	0.4	1.6	0.06	0.3	2.5	55.31	13.83	5.26	3.04	5.42	0.53	2.72	0.62	0.16	0.04	0.012	820	45	164
AER23TS-3130	Pulp DUP	0.3	0.3	1.1	0.06	0.2	1.9	55.52	15.04	5.41	2.84	4.43	0.55	2.85	0.65	0.17	0.04	0.013	822	49	178
AER23TS-3131	Till	0.2	0.3	1.7	0.06	0.3	1.9	54.08	14.35	5.07	3.29	5.59	0.58	2.72	0.63	0.17	0.04	0.013	785	47	171
AER23TS-3132	Till	0.3	0.1	1.2	0.05	0.2	1.0	56.88	16.26	5.34	2.51	3.32	0.61	2.88	0.67	0.17	0.05	0.014	810	48	187
AER23TS-3133	Till	0.3	0.3	1.4	0.06	0.2	1.9	55.47	15.61	5.41	2.77	4.27	0.55	2.90	0.64	0.18	0.04	0.014	816	47	181
AER23TS-3134	Till	0.3	0.1	1.1	0.06	0.2	1.0	57.19	16.73	5.31	2.22	3.13	0.45	2.89	0.68	0.18	0.04	0.015	808	45	182
AER23TS-3135	Till	0.3	0.3	0.8	0.06	0.2	2.3	56.78	14.10	5.29	2.50	5.11	0.50	2.62	0.65	0.17	0.05	0.013	804	47	176
AER23TS-3136	Rock Pulp	0.1	0.1	37.1	0.02	<0.1	<0.5	71.78	12.17	4.01	1.72	3.27	3.43	1.43	0.38	0.12	0.07	0.016	463	86	401
AER23TS-3137	Till	0.3	0.4	1.2	0.07	0.3	2.7	56.72	13.06	5.56	2.63	5.49	0.46	2.48	0.62	0.16	0.04	0.011	707	49	158
AER23TS-3138	Till	0.2	0.3	1.1	0.06	0.3	2.5	55.97	13.72	5.12	2.74	5.68	0.49	2.53	0.61	0.15	0.04	0.013	793	52	166
AER23TS-3139	Till	0.3	0.4	1.6	0.05	0.3	2.6	56.81	14.00	5.42	2.62	4.90	0.52	2.57	0.63	0.15	0.04	0.013	716	51	160
AER23TS-3140	Till	0.3	0.4	1.1	0.06	0.3	3.2	57.42	13.73	5.62	2.43	4.67	0.51	2.48	0.64	0.15	0.04	0.011	714	53	158
AER23TS-3141	Till	0.3	0.3	1.1	0.06	0.3	2.1	63.23	13.25	5.34	1.90	2.56	0.57	2.37	0.67	0.17	0.05	0.011	778	46	145
AER23TS-3142	Till	0.3	0.5	1.4	0.06	0.3	3.4	58.65	14.33	5.79	2.01	3.36	0.38	2.56	0.66	0.16	0.04	0.012	795	55	147
AER23TS-3143	Till	0.3	0.3	1.7	0.05	0.3	2.1	59.46	13.38	5.59	2.03	4.10	0.46	2.27	0.64	0.15	0.04	0.013	726	46	156
AER23TS-3144	Till	0.2	0.2	1.2	0.05	0.2	1.7	64.68	12.96	5.21	1.74	2.33	0.63	2.23	0.70	0.14	0.05	0.011	741	38	143
AER23TS-3145	Till	0.3	0.3	1.4	0.06	0.2	2.2	60.85	13.51	5.56	2.12	3.24	0.45	2.38	0.63	0.16	0.05	0.011	802	48	159
AER23TS-3146	Till	0.3	0.4	1.3	0.05	0.3	2.6	59.51	13.94	5.38	2.21	3.52	0.45	2.51	0.66	0.15	0.04	0.013	725	51	153
AER23TS-3147	Till	0.2	0.4	1.4	0.06	0.3	3.1	56.56	13.65	5.36	2.70	5.24	0.50	2.50	0.62	0.15	0.04	0.012	689	52	158
AER23TS-3148	Rock Pulp	0.1	0.1	38.3	0.01	<0.1	<0.5	71.55	12.37	4.10	1.76	3.32	3.47	1.44	0.38	0.12	0.07	0.016	466	91	406



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	Method Analyte Unit MDL	LF300	LF300	LF300	LF300	LF300	LF300	TC000	TC005	TC005	TC006	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Zr	Y	Nb	Sc	LOI	Sum	TOT/C	C/ORG	C/GRA	CO2	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As
		ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm
		5	3	5	1	-5.1	0.01	0.02	0.02	0.02	0.08	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1
AER23TS-3119	Till	226	27	16	12	9.3	99.90	2.29	1.58	0.03	2.49	2.57	31.56	13.86	105.9	304	32.2	9.6	272	2.33	12.5
AER23TS-3120	Till	219	27	18	12	9.0	99.91	2.30	1.75	0.03	1.92	2.75	33.33	14.17	111.1	305	34.3	9.8	241	2.33	13.1
AER23TS-3121	Till	271	26	14	11	8.6	99.93	1.60	1.04	0.02	2.00	3.02	25.80	12.01	86.1	253	30.6	8.9	447	2.70	11.6
AER23TS-3122	Till	212	26	15	12	9.4	99.91	2.44	1.76	0.03	2.37	2.54	33.80	14.46	112.7	300	33.4	10.1	257	2.30	12.6
AER23TS-3123	Till	208	26	15	12	9.1	99.90	2.13	1.68	0.03	1.54	2.55	32.54	14.74	115.4	279	34.4	10.1	247	2.50	13.4
AER23TS-3124	Till	217	27	13	12	9.3	99.92	2.33	1.75	0.03	2.03	2.46	32.95	15.61	120.3	281	36.9	11.1	292	2.60	13.4
AER23TS-3125	Till	290	25	13	10	9.6	99.92	2.77	1.58	0.02	4.28	2.82	31.29	12.54	96.2	323	29.0	8.3	276	2.08	11.2
AER23TS-3126	Till	485	28	12	10	7.9	99.93	1.63	0.82	<0.02	2.90	2.16	25.72	12.15	105.7	242	29.9	9.5	689	3.10	14.5
AER23TS-3127	Till	178	24	16	13	12.6	99.88	3.29	2.10	0.03	4.24	8.67	36.38	13.37	137.4	394	42.0	13.3	246	2.52	16.1
AER23TS-3128	Till	166	23	15	13	13.0	99.87	3.22	1.87	0.02	4.87	8.64	38.60	13.97	137.3	431	41.8	13.7	287	2.78	17.9
AER23TS-3129	Till	169	23	15	12	12.8	99.87	3.48	2.07	0.02	5.07	8.86	36.52	13.31	133.4	395	40.8	12.9	284	2.65	16.5
AER23TS-3130	Pulp DUP	163	24	14	14	12.2	99.88	2.66	1.60	0.03	3.77	5.39	34.79	13.66	115.3	288	40.3	12.4	280	2.70	13.2
AER23TS-3131	Till	161	22	15	13	13.2	99.88	2.99	1.63	0.03	4.91	5.95	33.18	13.05	114.2	337	39.9	12.1	286	2.55	13.4
AER23TS-3132	Till	176	24	14	15	11.0	99.89	1.91	1.30	0.03	2.13	1.47	30.38	13.98	88.8	143	40.8	14.0	352	2.68	9.8
AER23TS-3133	Till	163	24	16	14	11.9	99.89	2.61	1.53	0.03	3.82	5.80	35.14	13.93	117.8	279	40.8	12.5	283	2.73	13.6
AER23TS-3134	Till	167	24	17	15	10.9	99.90	1.75	1.18	0.04	1.96	1.22	30.65	13.85	88.9	140	37.8	11.7	295	2.72	9.9
AER23TS-3135	Till	178	24	15	13	12.0	99.89	3.04	1.76	0.03	4.57	8.40	35.90	14.17	128.7	313	43.7	14.3	319	2.75	15.5
AER23TS-3136	Rock Pulp	161	11	18	9	1.3	99.88	0.06	0.02	<0.02	0.10	11.99	156.79	263.73	208.5	115	78.4	46.8	269	1.59	9.5
AER23TS-3137	Till	190	24	14	12	12.5	99.89	3.53	2.09	0.03	5.15	12.57	35.35	13.71	139.4	395	40.9	13.7	277	2.75	19.4
AER23TS-3138	Till	186	23	13	12	12.7	99.88	3.45	2.04	0.03	5.04	8.62	34.25	13.45	126.2	339	43.2	14.6	293	2.58	15.8
AER23TS-3139	Till	181	23	15	13	12.1	99.89	3.18	1.98	0.04	4.23	10.37	36.52	14.10	138.6	363	44.8	14.6	296	2.77	16.5
AER23TS-3140	Till	190	25	17	12	12.1	99.89	3.37	2.20	0.04	4.13	14.35	38.80	14.43	155.2	421	46.7	15.9	266	2.93	20.2
AER23TS-3141	Till	235	26	11	12	9.6	99.91	2.42	1.73	0.03	2.41	7.17	31.59	14.60	133.3	312	36.5	12.5	298	2.59	14.9
AER23TS-3142	Till	182	26	20	13	11.8	99.89	3.06	2.43	0.03	2.21	17.53	39.83	14.80	169.5	502	49.1	16.6	249	2.89	20.7
AER23TS-3143	Till	190	24	17	12	11.6	99.90	2.51	1.97	0.04	1.86	11.77	30.17	13.10	130.5	303	38.1	13.1	282	2.68	16.4
AER23TS-3144	Till	248	24	15	11	9.1	99.91	1.91	1.53	0.03	1.27	7.45	27.10	13.61	125.3	253	33.2	12.0	325	2.60	13.5
AER23TS-3145	Till	204	25	14	12	10.8	99.90	2.28	1.66	0.03	2.15	9.17	32.66	14.37	138.3	364	39.5	13.6	317	2.86	16.4
AER23TS-3146	Till	196	23	16	12	11.4	99.89	2.99	2.21	0.04	2.73	12.23	32.65	13.46	138.9	352	40.5	14.0	275	2.57	16.7
AER23TS-3147	Till	187	23	12	12	12.4	99.89	3.38	2.04	0.04	4.78	12.71	35.79	14.06	140.0	401	44.8	14.9	303	2.66	17.8
AER23TS-3148	Rock Pulp	167	11	16	9	1.1	99.87	0.07	0.02	<0.02	0.13	11.88	158.47	262.13	205.1	109	77.5	46.3	268	1.58	9.1



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		U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W
		ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm
		0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1
AER23TS-3119	Till	2.0	1.7	6.7	78.3	0.49	0.54	0.24	34	2.05	0.078	15.3	18.9	0.72	292.2	0.005	14	1.01	0.039	0.21	<0.1
AER23TS-3120	Till	2.3	1.2	6.7	73.4	0.50	0.54	0.25	34	1.59	0.079	15.2	18.8	0.65	280.5	0.004	14	1.01	0.031	0.22	<0.1
AER23TS-3121	Till	2.0	1.8	5.6	71.4	0.33	0.48	0.19	40	2.08	0.069	14.5	20.7	0.61	283.0	0.006	12	1.20	0.056	0.19	<0.1
AER23TS-3122	Till	2.2	1.5	6.9	79.2	0.53	0.53	0.25	35	1.72	0.077	15.7	19.1	0.70	267.4	0.004	16	1.07	0.065	0.24	<0.1
AER23TS-3123	Till	2.4	3.4	7.0	77.7	0.55	0.54	0.26	35	1.29	0.074	15.8	19.7	0.60	294.0	0.004	15	1.10	0.060	0.23	<0.1
AER23TS-3124	Till	2.4	1.4	7.3	81.8	0.57	0.62	0.27	35	1.67	0.081	16.8	21.2	0.64	285.8	0.006	16	1.16	0.057	0.23	<0.1
AER23TS-3125	Till	2.5	1.5	5.9	75.4	0.54	0.50	0.21	38	3.03	0.082	14.4	19.6	0.88	282.5	0.005	18	1.01	0.039	0.23	<0.1
AER23TS-3126	Till	1.9	1.3	5.9	63.4	0.45	0.57	0.18	29	1.97	0.079	14.9	15.2	0.77	323.1	0.006	12	0.81	0.034	0.17	<0.1
AER23TS-3127	Till	4.1	1.5	6.7	78.3	1.36	0.85	0.25	48	2.88	0.063	15.2	22.1	1.07	203.1	0.005	17	1.34	0.029	0.29	<0.1
AER23TS-3128	Till	4.5	1.4	7.4	86.9	1.29	0.78	0.27	50	3.56	0.066	17.7	23.2	1.36	302.2	0.007	20	1.36	0.070	0.32	<0.1
AER23TS-3129	Till	4.4	1.6	7.3	89.4	1.35	0.84	0.26	52	3.50	0.065	17.4	24.2	1.32	306.6	0.007	21	1.47	0.057	0.33	<0.1
AER23TS-3130	Pulp DUP	3.3	1.0	7.9	95.6	0.85	0.67	0.27	52	2.83	0.067	18.6	27.5	1.15	303.3	0.006	18	1.65	0.090	0.34	<0.1
AER23TS-3131	Till	3.4	1.8	7.3	94.6	1.01	0.68	0.25	55	3.55	0.066	18.4	26.7	1.45	303.3	0.007	21	1.63	0.103	0.36	<0.1
AER23TS-3132	Till	2.1	1.3	8.0	102.3	0.32	0.52	0.27	63	2.14	0.067	20.1	35.4	0.99	298.8	0.008	22	2.19	0.122	0.40	<0.1
AER23TS-3133	Till	3.4	1.6	7.9	96.8	0.90	0.68	0.27	54	2.90	0.067	19.3	28.3	1.17	313.4	0.007	19	1.70	0.088	0.36	<0.1
AER23TS-3134	Till	1.7	1.3	8.3	104.3	0.30	0.48	0.27	67	2.03	0.072	21.4	36.9	0.84	302.7	0.008	26	2.37	0.040	0.45	<0.1
AER23TS-3135	Till	3.6	1.0	6.9	98.8	1.00	0.77	0.26	43	3.34	0.066	15.3	23.2	1.01	254.3	0.006	18	1.37	0.059	0.29	<0.1
AER23TS-3136	Rock Pulp	0.4	40.1	3.1	33.4	0.48	0.21	0.14	25	0.62	0.052	24.3	30.3	0.47	57.4	0.070	2	0.91	0.142	0.14	<0.1
AER23TS-3137	Till	4.7	1.1	6.5	86.5	1.39	0.98	0.26	43	3.57	0.061	14.4	20.1	1.12	178.4	0.004	18	1.26	0.049	0.27	<0.1
AER23TS-3138	Till	3.8	1.7	6.7	95.1	1.11	0.78	0.25	47	3.83	0.059	15.3	23.3	1.17	211.7	0.006	19	1.47	0.064	0.31	<0.1
AER23TS-3139	Till	4.2	1.5	7.1	86.5	1.27	0.92	0.27	45	3.22	0.061	15.3	22.3	1.10	245.0	0.005	18	1.36	0.097	0.29	<0.1
AER23TS-3140	Till	4.9	1.1	6.6	83.2	1.62	0.92	0.27	38	3.05	0.060	13.6	17.7	0.96	173.6	0.004	16	1.08	0.111	0.24	<0.1
AER23TS-3141	Till	3.9	1.2	6.8	69.3	0.90	0.71	0.26	34	1.58	0.063	15.6	17.3	0.69	207.7	0.004	13	1.06	0.048	0.21	<0.1
AER23TS-3142	Till	5.4	1.5	6.9	78.5	1.58	1.02	0.28	43	2.22	0.059	15.1	18.9	0.73	250.4	0.003	17	1.24	0.037	0.27	<0.1
AER23TS-3143	Till	4.4	1.6	6.0	78.5	1.00	0.80	0.24	42	2.37	0.054	13.6	20.2	0.71	180.8	0.003	14	1.32	0.048	0.23	<0.1
AER23TS-3144	Till	3.4	1.7	6.1	62.9	0.67	0.64	0.25	38	1.38	0.053	14.2	19.6	0.62	240.7	0.004	11	1.21	0.053	0.20	<0.1
AER23TS-3145	Till	4.4	1.6	7.3	76.0	1.18	0.81	0.26	37	1.91	0.063	16.8	19.1	0.82	333.6	0.004	14	1.21	0.019	0.24	<0.1
AER23TS-3146	Till	4.8	1.4	6.4	74.0	1.34	0.78	0.25	38	2.21	0.055	14.2	18.6	0.82	204.6	0.003	14	1.19	0.037	0.25	<0.1
AER23TS-3147	Till	4.8	1.2	6.4	85.6	1.35	0.83	0.25	38	3.56	0.058	13.6	18.8	1.16	158.3	0.003	16	1.16	0.095	0.26	<0.1
AER23TS-3148	Rock Pulp	0.4	39.4	3.1	33.4	0.50	0.20	0.14	25	0.61	0.051	24.0	29.7	0.47	56.4	0.069	2	0.89	0.132	0.14	<0.1



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		Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be
		ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm
		0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1
AER23TS-3119	Till	4.4	0.21	0.65	95	1.3	0.09	3.4	1.65	<0.1	0.21	0.13	17.5	0.5	<0.05	10.8	15.12	32.0	0.04	4	0.7
AER23TS-3120	Till	4.6	0.19	0.67	79	1.7	0.08	3.4	1.78	<0.1	0.24	0.10	18.9	0.6	<0.05	11.2	15.08	32.3	0.03	6	0.7
AER23TS-3121	Till	4.3	0.25	0.32	70	0.9	0.07	3.7	1.31	<0.1	0.12	0.20	16.5	0.5	<0.05	6.9	12.88	30.5	0.03	3	0.7
AER23TS-3122	Till	4.5	0.21	0.95	94	1.4	0.09	3.6	1.86	<0.1	0.24	0.11	19.4	0.6	<0.05	11.4	14.64	32.8	0.04	6	0.8
AER23TS-3123	Till	4.7	0.24	0.78	92	1.7	0.11	3.7	2.02	<0.1	0.25	0.11	19.8	0.6	<0.05	11.6	14.63	33.6	0.03	5	0.6
AER23TS-3124	Till	5.0	0.22	0.91	85	1.6	0.11	3.9	2.07	<0.1	0.25	0.13	20.2	0.6	<0.05	11.6	15.14	34.7	0.03	4	0.8
AER23TS-3125	Till	4.2	0.23	0.71	92	1.9	0.06	3.3	1.64	<0.1	0.23	0.13	17.7	0.5	<0.05	10.7	13.71	29.8	0.03	10	0.6
AER23TS-3126	Till	3.7	0.19	0.18	73	1.2	0.08	2.7	1.29	<0.1	0.23	0.13	13.2	0.4	<0.05	11.6	13.09	31.3	0.02	4	0.5
AER23TS-3127	Till	4.8	0.35	1.01	62	2.6	0.10	4.4	1.88	<0.1	0.25	0.14	21.7	0.6	<0.05	11.3	12.72	31.6	0.03	14	0.7
AER23TS-3128	Till	5.1	0.30	0.53	53	2.5	0.10	4.8	2.00	<0.1	0.26	0.19	24.2	0.6	<0.05	11.2	13.42	36.1	0.03	10	0.8
AER23TS-3129	Till	5.1	0.31	0.69	48	2.5	0.07	4.9	2.03	<0.1	0.27	0.19	24.6	0.7	<0.05	11.9	13.25	35.3	0.04	13	1.0
AER23TS-3130	Pulp DUP	5.6	0.26	0.43	48	1.9	0.08	5.2	2.06	<0.1	0.28	0.20	25.6	0.7	<0.05	12.9	13.90	38.2	0.04	9	0.9
AER23TS-3131	Till	5.3	0.37	0.29	62	1.9	0.10	5.1	2.00	<0.1	0.23	0.28	25.3	0.7	<0.05	11.0	12.70	37.5	0.03	9	0.9
AER23TS-3132	Till	6.4	0.23	0.21	53	1.1	0.07	6.5	2.37	<0.1	0.29	0.19	30.7	0.8	<0.05	14.5	13.35	41.6	0.04	6	1.0
AER23TS-3133	Till	5.8	0.28	0.44	44	2.0	0.09	5.4	2.14	<0.1	0.28	0.19	26.7	0.7	<0.05	12.6	13.96	38.5	0.04	10	1.0
AER23TS-3134	Till	6.7	0.24	0.10	55	0.8	0.10	6.9	2.49	<0.1	0.35	0.16	31.5	0.8	<0.05	17.2	14.09	42.7	0.04	6	1.2
AER23TS-3135	Till	5.1	0.27	1.09	66	2.1	0.10	4.5	2.00	<0.1	0.28	0.10	22.0	0.6	<0.05	12.4	13.37	33.0	0.04	12	0.8
AER23TS-3136	Rock Pulp	3.1	0.08	<0.02	12	<0.1	0.02	2.8	1.14	<0.1	0.18	0.47	6.8	2.3	<0.05	5.9	5.41	41.7	0.03	<1	0.2
AER23TS-3137	Till	4.8	0.30	1.26	58	2.7	0.09	4.2	1.98	<0.1	0.25	0.10	20.7	0.6	<0.05	10.8	13.26	30.2	0.03	13	0.8
AER23TS-3138	Till	5.0	0.29	1.18	50	2.5	0.10	4.7	2.03	<0.1	0.28	0.15	22.9	0.7	<0.05	12.0	12.62	31.7	0.03	11	0.8
AER23TS-3139	Till	5.1	0.33	0.95	57	2.4	0.11	4.6	2.11	<0.1	0.28	0.13	22.7	0.7	<0.05	11.6	13.02	32.4	0.04	13	0.8
AER23TS-3140	Till	4.7	0.32	1.57	57	2.9	0.11	3.9	1.91	<0.1	0.24	0.09	20.3	0.6	<0.05	10.5	13.46	29.1	0.03	16	0.8
AER23TS-3141	Till	4.4	0.28	1.08	64	1.9	0.09	3.7	1.87	<0.1	0.22	0.09	18.6	0.6	<0.05	10.1	13.46	32.9	0.03	11	0.7
AER23TS-3142	Till	5.0	0.38	0.92	64	3.3	0.11	4.4	2.07	<0.1	0.21	0.13	21.8	0.7	<0.05	8.8	13.76	30.9	0.04	16	0.9
AER23TS-3143	Till	4.5	0.33	1.09	56	1.9	0.09	4.4	1.74	<0.1	0.17	0.18	19.8	0.7	<0.05	8.1	11.78	28.4	0.03	12	0.8
AER23TS-3144	Till	4.2	0.26	0.59	42	1.7	0.08	4.2	1.61	<0.1	0.13	0.19	18.9	0.6	<0.05	6.8	10.92	29.9	0.03	9	0.8
AER23TS-3145	Till	4.8	0.31	0.34	52	2.2	0.09	4.1	1.85	<0.1	0.23	0.18	20.1	0.7	<0.05	10.7	13.85	34.9	0.04	11	0.8
AER23TS-3146	Till	4.5	0.33	0.88	63	2.3	0.09	4.1	1.81	<0.1	0.16	0.15	20.7	0.6	<0.05	7.4	11.88	29.3	0.03	13	0.7
AER23TS-3147	Till	4.7	0.30	1.32	56	2.9	0.12	4.0	1.79	<0.1	0.22	0.11	20.2	0.6	<0.05	9.5	12.86	28.9	0.04	13	0.8
AER23TS-3148	Rock Pulp	3.0	0.08	<0.02	15	<0.1	0.03	2.7	1.14	<0.1	0.18	0.50	6.7	2.2	<0.05	5.8	5.35	41.3	0.03	<1	0.2



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		Li	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Pd	Pt	Mo	Cu	Pb	Zn	Ag
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppb
		0.1	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	10	2	0.01	0.01	0.01	0.1	2
AER23TS-3119	Till	16.8	4.19	17.09	3.79	0.83	3.72	0.54	2.93	0.54	1.39	0.18	1.06	0.14	<10	<2	2.41	31.23	13.81	101.8	299
AER23TS-3120	Till	16.6	4.22	17.10	3.78	0.83	3.71	0.53	2.90	0.54	1.37	0.18	1.06	0.15	<10	<2	2.70	35.76	14.97	112.3	311
AER23TS-3121	Till	17.7	3.84	15.44	3.36	0.70	3.18	0.46	2.49	0.45	1.15	0.15	0.90	0.12	<10	<2	3.01	27.57	13.17	89.5	271
AER23TS-3122	Till	17.6	4.26	17.27	3.79	0.81	3.62	0.53	2.85	0.53	1.35	0.18	1.01	0.14	<10	<2	2.59	35.23	15.44	115.7	341
AER23TS-3123	Till	16.8	4.32	17.30	3.82	0.82	3.68	0.52	2.85	0.52	1.34	0.17	1.02	0.14	<10	<2	2.61	34.84	15.67	120.0	319
AER23TS-3124	Till	18.5	4.45	17.77	3.94	0.84	3.79	0.54	2.96	0.55	1.42	0.18	1.11	0.15	<10	<2	2.36	34.26	16.10	120.2	309
AER23TS-3125	Till	14.4	3.92	15.82	3.51	0.74	3.33	0.47	2.58	0.48	1.21	0.16	0.92	0.13	<10	<2	2.67	30.97	12.53	93.9	321
AER23TS-3126	Till	11.2	3.98	15.83	3.39	0.68	3.18	0.44	2.45	0.45	1.17	0.15	0.93	0.13	<10	<2	2.16	26.88	12.92	108.4	254
AER23TS-3127	Till	19.0	4.02	15.88	3.42	0.73	3.23	0.45	2.46	0.44	1.12	0.15	0.86	0.12	<10	<2	9.01	39.07	14.66	147.0	438
AER23TS-3128	Till	20.7	4.50	17.72	3.70	0.78	3.43	0.48	2.59	0.48	1.20	0.15	0.93	0.13	<10	<2	8.45	37.21	14.55	134.5	432
AER23TS-3129	Till	21.0	4.45	17.39	3.61	0.75	3.35	0.47	2.54	0.46	1.17	0.15	0.87	0.12	<10	<2	8.99	37.84	13.95	139.2	421
AER23TS-3130	Pulp DUP	25.6	4.75	18.71	3.89	0.81	3.61	0.51	2.69	0.49	1.27	0.16	0.99	0.14	<10	<2	2.90	34.16	14.27	103.1	214
AER23TS-3131	Till	24.2	4.62	18.02	3.75	0.76	3.38	0.46	2.45	0.45	1.15	0.14	0.86	0.12	<10	<2	5.94	34.64	13.71	118.2	340
AER23TS-3132	Till	31.3	5.05	19.63	4.05	0.84	3.59	0.51	2.66	0.48	1.26	0.16	0.97	0.14	<10	<2	1.35	30.67	14.45	93.3	164
AER23TS-3133	Till	25.9	4.90	19.09	3.97	0.81	3.61	0.51	2.76	0.50	1.27	0.17	0.99	0.14	<10	<2	2.88	33.40	14.57	104.1	218
AER23TS-3134	Till	31.0	5.33	20.61	4.29	0.87	3.76	0.53	2.79	0.51	1.31	0.17	1.04	0.15	<10	<2	1.15	33.13	14.52	93.3	155
AER23TS-3135	Till	20.8	4.13	16.47	3.54	0.76	3.39	0.48	2.60	0.47	1.20	0.16	0.91	0.13	<10	<2	8.26	36.07	14.06	133.8	334
AER23TS-3136	Rock Pulp	8.2	4.91	16.86	2.54	0.55	1.69	0.21	1.10	0.19	0.52	0.07	0.45	0.06	39	25	12.72	158.17	275.82	215.8	107
AER23TS-3137	Till	17.7	3.88	15.66	3.50	0.73	3.34	0.48	2.60	0.47	1.19	0.15	0.87	0.12	<10	<2	12.78	37.34	14.51	149.8	423
AER23TS-3138	Till	20.7	4.00	15.99	3.52	0.72	3.20	0.46	2.46	0.45	1.12	0.14	0.85	0.12	<10	<2	8.59	35.04	13.55	133.6	350
AER23TS-3139	Till	19.4	4.11	16.37	3.56	0.75	3.35	0.48	2.55	0.47	1.18	0.15	0.91	0.12	<10	<2	10.01	35.80	14.09	138.3	376
AER23TS-3140	Till	15.6	3.77	15.32	3.48	0.73	3.32	0.47	2.54	0.46	1.19	0.14	0.87	0.12	<10	<2	13.76	38.02	14.19	157.3	426
AER23TS-3141	Till	15.6	4.17	16.70	3.64	0.77	3.44	0.50	2.67	0.49	1.27	0.16	0.96	0.14	<10	<2	7.24	32.79	15.21	140.8	319
AER23TS-3142	Till	13.9	4.03	16.32	3.64	0.76	3.50	0.50	2.64	0.48	1.21	0.15	0.86	0.12	<10	<2	17.57	40.76	15.39	174.7	509
AER23TS-3143	Till	16.5	3.60	14.36	3.10	0.65	2.94	0.42	2.24	0.41	1.03	0.13	0.78	0.10	<10	<2	12.06	31.66	14.59	142.4	313
AER23TS-3144	Till	18.6	3.64	14.15	3.03	0.61	2.77	0.40	2.15	0.38	0.96	0.12	0.74	0.10	<10	<2	7.51	27.26	14.96	127.8	255
AER23TS-3145	Till	15.9	4.37	17.26	3.73	0.76	3.45	0.49	2.59	0.48	1.20	0.16	0.92	0.13	<10	<2	9.17	34.07	14.72	141.7	366
AER23TS-3146	Till	15.9	3.72	14.93	3.28	0.69	3.12	0.44	2.34	0.42	1.06	0.13	0.78	0.11	<10	<2	12.78	34.79	14.09	147.4	376
AER23TS-3147	Till	16.8	3.72	14.98	3.33	0.70	3.21	0.46	2.44	0.45	1.12	0.14	0.83	0.11	<10	<2	12.21	36.34	15.02	147.9	400
AER23TS-3148	Rock Pulp	8.3	4.89	16.72	2.55	0.54	1.66	0.21	1.08	0.19	0.52	0.07	0.45	0.06	40	24	12.56	155.00	268.06	213.3	109



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		Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba
		ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm
		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	0.5	0.5	0.01	0.5
AER23TS-3119	Till	30.7	9.5	275	2.33	11.6	1.9	2.0	6.6	71.1	0.46	0.40	0.24	32	2.05	0.082	14.9	18.6	0.73	278.8
AER23TS-3120	Till	34.4	10.1	251	2.41	12.6	2.4	1.3	7.1	71.4	0.51	0.40	0.26	33	1.60	0.086	15.8	18.7	0.67	284.2
AER23TS-3121	Till	31.1	9.4	465	2.76	11.4	2.2	2.2	6.0	70.3	0.34	0.42	0.21	40	2.09	0.074	15.2	20.6	0.63	293.9
AER23TS-3122	Till	34.0	10.8	267	2.36	12.9	2.3	1.2	7.3	79.9	0.56	0.41	0.27	35	1.75	0.082	16.5	19.3	0.73	257.4
AER23TS-3123	Till	35.6	10.9	267	2.67	13.5	2.6	1.2	7.5	78.9	0.56	0.42	0.28	36	1.36	0.080	16.6	20.7	0.65	276.8
AER23TS-3124	Till	36.2	11.3	302	2.63	12.9	2.5	1.4	7.1	77.7	0.52	0.48	0.28	34	1.71	0.083	16.5	20.2	0.67	238.1
AER23TS-3125	Till	27.6	8.3	278	2.06	10.7	2.4	1.5	5.7	69.0	0.51	0.39	0.20	33	2.98	0.083	13.1	17.2	0.88	252.4
AER23TS-3126	Till	30.3	10.0	715	3.19	14.2	1.9	1.4	6.3	61.7	0.48	0.46	0.18	29	2.03	0.085	15.0	15.5	0.80	328.9
AER23TS-3127	Till	43.9	14.3	268	2.70	17.1	4.4	1.3	7.3	80.3	1.40	0.65	0.28	50	3.02	0.070	16.4	23.2	1.18	212.6
AER23TS-3128	Till	40.0	13.7	290	2.74	17.6	4.6	1.5	7.6	82.6	1.24	0.62	0.28	45	3.53	0.069	17.1	21.8	1.37	297.2
AER23TS-3129	Till	41.2	13.3	294	2.68	16.9	4.7	1.7	7.6	86.3	1.31	0.68	0.27	47	3.52	0.071	17.4	22.5	1.36	305.9
AER23TS-3130	Pulp DUP	38.8	12.1	272	2.72	11.2	2.5	1.2	8.1	96.4	0.55	0.44	0.29	49	2.37	0.071	19.0	29.5	1.04	284.4
AER23TS-3131	Till	39.0	12.5	297	2.60	13.5	3.5	1.8	7.6	94.0	1.02	0.56	0.26	53	3.58	0.069	18.4	26.6	1.50	296.3
AER23TS-3132	Till	40.4	14.5	353	2.68	9.6	2.0	1.3	7.9	100.4	0.29	0.39	0.28	58	2.08	0.071	19.8	34.7	0.99	288.5
AER23TS-3133	Till	38.5	11.9	273	2.73	10.9	2.6	1.4	8.4	94.0	0.54	0.42	0.29	50	2.36	0.071	20.1	29.4	1.05	298.1
AER23TS-3134	Till	38.2	12.3	300	2.69	9.7	1.7	1.0	8.4	100.8	0.32	0.38	0.28	59	2.02	0.076	21.7	33.4	0.84	305.9
AER23TS-3135	Till	43.1	14.8	322	2.70	14.6	3.6	1.1	6.7	92.4	1.00	0.59	0.27	37	3.27	0.068	14.6	20.3	1.01	216.6
AER23TS-3136	Rock Pulp	80.3	49.4	272	1.60	10.0	0.4	38.9	3.2	32.0	0.49	0.20	0.15	24	0.57	0.052	25.2	30.3	0.47	62.5
AER23TS-3137	Till	41.7	14.6	290	2.86	20.0	4.8	0.8	6.6	88.5	1.33	0.80	0.27	43	3.60	0.065	14.8	20.1	1.17	185.2
AER23TS-3138	Till	42.6	14.8	300	2.60	15.7	3.8	0.8	6.5	89.0	1.14	0.59	0.26	43	3.70	0.061	14.3	21.6	1.17	194.1
AER23TS-3139	Till	43.2	14.5	299	2.74	16.5	4.2	1.0	6.9	81.4	1.21	0.66	0.27	40	3.17	0.060	14.4	19.9	1.09	211.4
AER23TS-3140	Till	44.5	16.1	268	2.88	19.3	4.9	0.9	6.5	78.1	1.53	0.69	0.27	33	3.02	0.060	12.9	15.3	0.98	134.4
AER23TS-3141	Till	37.1	13.4	317	2.67	15.7	4.0	0.9	6.8	67.3	0.88	0.59	0.27	32	1.62	0.066	15.3	16.8	0.73	180.0
AER23TS-3142	Till	48.7	16.8	257	2.93	20.7	5.3	1.3	7.0	76.4	1.47	0.79	0.29	40	2.21	0.059	14.2	17.5	0.74	226.9
AER23TS-3143	Till	39.4	14.1	303	2.83	16.9	4.8	1.1	6.4	81.1	0.96	0.65	0.27	43	2.49	0.057	14.9	19.9	0.76	237.4
AER23TS-3144	Till	33.7	12.7	343	2.69	13.6	3.7	1.1	6.4	62.5	0.70	0.50	0.27	38	1.40	0.054	14.7	20.3	0.65	248.2
AER23TS-3145	Till	39.9	14.4	326	2.87	16.7	4.4	1.4	7.5	73.2	1.17	0.63	0.27	33	1.93	0.064	16.4	17.7	0.83	338.5
AER23TS-3146	Till	41.4	15.4	295	2.69	17.4	4.8	1.3	6.3	73.7	1.39	0.65	0.27	33	2.33	0.057	13.5	17.1	0.85	193.9
AER23TS-3147	Till	43.5	15.1	310	2.67	17.6	5.0	1.0	6.8	83.6	1.34	0.64	0.27	35	3.52	0.058	14.0	17.7	1.17	169.6
AER23TS-3148	Rock Pulp	77.9	49.6	274	1.61	9.8	0.4	38.6	3.1	31.7	0.49	0.20	0.15	24	0.58	0.052	24.9	30.7	0.47	61.4



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	Method	Analyte	Unit	MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251			
					B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr
					ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					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	0.02	0.02	0.1	0.1	0.05
AER23TS-3119	Till	17	0.97	0.039	0.20	<0.1	4.2	0.18	0.67	90	1.5	0.08	3.1	1.44	<0.1	0.23	0.13	17.5	0.5	<0.05	11.3			
AER23TS-3120	Till	17	0.98	0.033	0.22	<0.1	4.7	0.16	0.70	101	1.9	0.07	3.4	1.65	<0.1	0.27	0.11	19.7	0.6	<0.05	12.5			
AER23TS-3121	Till	14	1.17	0.058	0.18	0.1	4.4	0.24	0.35	93	1.2	0.07	3.7	1.20	<0.1	0.15	0.25	16.5	0.5	<0.05	8.6			
AER23TS-3122	Till	19	1.05	0.068	0.23	<0.1	4.7	0.18	0.99	83	1.8	0.08	3.7	1.73	<0.1	0.28	0.11	20.5	0.6	<0.05	13.3			
AER23TS-3123	Till	18	1.13	0.067	0.24	<0.1	5.0	0.18	0.86	94	1.9	0.08	3.9	1.83	<0.1	0.27	0.15	20.8	0.7	<0.05	13.5			
AER23TS-3124	Till	17	1.11	0.059	0.22	<0.1	5.0	0.18	0.95	114	1.6	0.07	3.8	1.84	<0.1	0.26	0.13	20.3	0.6	<0.05	13.0			
AER23TS-3125	Till	18	0.87	0.040	0.20	<0.1	3.9	0.19	0.73	96	2.0	0.08	2.9	1.35	<0.1	0.26	0.14	16.5	0.4	<0.05	12.0			
AER23TS-3126	Till	14	0.79	0.036	0.17	<0.1	3.8	0.18	0.20	72	1.5	0.07	2.7	1.18	<0.1	0.25	0.13	13.8	0.4	<0.05	12.8			
AER23TS-3127	Till	21	1.39	0.034	0.30	<0.1	5.1	0.32	1.14	61	3.0	0.08	4.6	1.78	<0.1	0.30	0.16	22.8	0.7	<0.05	13.3			
AER23TS-3128	Till	21	1.23	0.072	0.29	<0.1	5.0	0.28	0.52	57	2.7	0.08	4.4	1.83	<0.1	0.30	0.20	23.6	0.6	<0.05	12.2			
AER23TS-3129	Till	22	1.33	0.060	0.31	<0.1	5.1	0.26	0.70	57	3.0	0.08	4.7	1.79	<0.1	0.31	0.22	24.1	0.7	<0.05	14.2			
AER23TS-3130	Pulp DUP	19	1.67	0.118	0.34	<0.1	5.9	0.21	0.26	58	1.5	0.08	5.5	1.87	<0.1	0.30	0.19	26.3	0.7	<0.05	14.4			
AER23TS-3131	Till	23	1.56	0.109	0.35	<0.1	5.2	0.35	0.31	65	2.2	0.07	5.2	1.75	<0.1	0.27	0.33	25.5	0.7	<0.05	12.7			
AER23TS-3132	Till	22	2.03	0.128	0.37	<0.1	6.4	0.19	0.23	55	1.4	0.08	6.3	2.03	<0.1	0.30	0.20	28.8	0.8	<0.05	15.7			
AER23TS-3133	Till	19	1.68	0.118	0.34	<0.1	5.9	0.22	0.27	72	1.5	0.06	5.5	1.97	<0.1	0.30	0.19	26.2	0.7	<0.05	13.5			
AER23TS-3134	Till	23	2.08	0.040	0.39	<0.1	6.5	0.20	0.09	64	1.1	0.06	6.4	2.09	<0.1	0.40	0.18	29.0	0.8	<0.05	19.4			
AER23TS-3135	Till	16	1.17	0.058	0.25	<0.1	4.9	0.21	1.05	52	2.4	0.09	4.3	1.65	<0.1	0.31	0.09	20.9	0.6	<0.05	13.6			
AER23TS-3136	Rock Pulp	1	0.84	0.119	0.13	0.1	3.0	0.08	<0.02	19	0.2	<0.02	2.8	1.20	<0.1	0.20	0.46	7.2	2.2	<0.05	6.6			
AER23TS-3137	Till	20	1.25	0.053	0.27	<0.1	4.9	0.24	1.36	64	3.0	0.09	4.3	1.77	<0.1	0.30	0.12	21.6	0.6	<0.05	13.3			
AER23TS-3138	Till	20	1.32	0.066	0.28	<0.1	4.9	0.23	1.21	62	2.8	0.08	4.6	1.72	<0.1	0.28	0.15	22.5	0.7	<0.05	12.7			
AER23TS-3139	Till	17	1.19	0.100	0.26	<0.1	4.9	0.24	0.98	57	2.7	0.07	4.3	1.69	<0.1	0.29	0.13	21.6	0.6	<0.05	12.7			
AER23TS-3140	Till	15	0.94	0.113	0.22	<0.1	4.5	0.26	1.53	61	3.2	0.08	3.6	1.57	<0.1	0.27	0.09	19.2	0.6	<0.05	11.3			
AER23TS-3141	Till	14	1.00	0.052	0.20	<0.1	4.5	0.23	1.12	69	2.2	0.09	3.8	1.66	<0.1	0.26	0.10	19.1	0.6	<0.05	11.8			
AER23TS-3142	Till	18	1.13	0.039	0.25	<0.1	4.9	0.31	0.94	85	3.7	0.11	4.2	1.82	<0.1	0.24	0.14	22.2	0.7	<0.05	10.3			
AER23TS-3143	Till	16	1.30	0.051	0.23	<0.1	4.6	0.29	1.10	60	2.3	0.09	4.5	1.62	<0.1	0.22	0.23	21.0	0.7	<0.05	10.2			
AER23TS-3144	Till	12	1.21	0.057	0.19	<0.1	4.2	0.23	0.62	51	2.1	0.08	4.3	1.50	<0.1	0.16	0.23	20.1	0.6	<0.05	8.1			
AER23TS-3145	Till	14	1.10	0.019	0.22	<0.1	4.7	0.25	0.35	60	2.6	0.09	4.0	1.57	<0.1	0.27	0.19	20.3	0.6	<0.05	12.3			
AER23TS-3146	Till	14	1.04	0.039	0.22	<0.1	4.5	0.27	0.94	50	2.9	0.09	4.0	1.52	<0.1	0.19	0.17	20.5	0.6	<0.05	9.4			
AER23TS-3147	Till	16	1.06	0.098	0.24	<0.1	4.6	0.25	1.31	56	3.3	0.10	4.0	1.63	<0.1	0.25	0.11	21.1	0.6	<0.05	10.3			
AER23TS-3148	Rock Pulp	2	0.84	0.112	0.13	<0.1	3.0	0.08	0.02	9	0.3	0.02	2.8	1.17	<0.1	0.18	0.51	7.1	2.2	<0.05	6.4			



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Method Analyte Unit MDL		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Y	Ce	In	Re	Be	Li	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Pd
		ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb
		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	0.02	0.02	0.02	10
AER23TS-3119	Till	15.59	30.9	0.04	4	0.8	19.0	3.84	16.33	3.68	0.80	3.61	0.49	2.79	0.51	1.37	0.17	1.02	0.14	<10
AER23TS-3120	Till	16.26	32.1	0.04	6	0.8	19.3	4.06	17.29	3.82	0.84	3.75	0.51	2.95	0.53	1.40	0.17	1.08	0.15	<10
AER23TS-3121	Till	13.92	30.6	0.03	3	0.8	20.2	3.88	16.26	3.54	0.76	3.40	0.46	2.60	0.47	1.25	0.15	0.95	0.13	<10
AER23TS-3122	Till	16.34	33.6	0.04	6	0.8	20.5	4.24	18.05	3.93	0.87	3.88	0.53	3.00	0.54	1.44	0.18	1.08	0.15	<10
AER23TS-3123	Till	16.27	34.5	0.04	6	0.9	19.5	4.34	18.42	4.03	0.89	3.83	0.52	2.95	0.53	1.42	0.18	1.07	0.15	<10
AER23TS-3124	Till	15.75	33.5	0.04	4	0.9	21.1	4.23	17.68	3.92	0.85	3.78	0.51	2.98	0.53	1.44	0.18	1.11	0.15	<10
AER23TS-3125	Till	14.03	27.6	0.03	10	0.7	16.3	3.52	14.93	3.30	0.71	3.21	0.44	2.49	0.45	1.19	0.15	0.89	0.12	<10
AER23TS-3126	Till	14.36	32.0	0.03	4	0.6	12.9	3.91	16.17	3.47	0.70	3.31	0.44	2.50	0.46	1.23	0.15	0.95	0.13	<10
AER23TS-3127	Till	14.14	33.4	0.04	16	1.0	23.3	4.09	17.13	3.64	0.78	3.43	0.46	2.60	0.47	1.24	0.15	0.93	0.13	<10
AER23TS-3128	Till	14.02	35.5	0.04	13	0.9	23.0	4.32	17.83	3.79	0.80	3.58	0.47	2.62	0.47	1.26	0.15	0.93	0.13	<10
AER23TS-3129	Till	14.22	35.0	0.03	14	1.0	23.5	4.34	17.87	3.76	0.78	3.49	0.46	2.61	0.47	1.22	0.15	0.93	0.12	<10
AER23TS-3130	Pulp DUP	15.04	39.1	0.04	10	1.1	31.3	4.90	19.33	4.04	0.86	3.80	0.50	2.77	0.49	1.32	0.16	1.02	0.14	<10
AER23TS-3131	Till	13.55	37.6	0.04	10	0.9	26.6	4.55	18.46	3.78	0.78	3.46	0.45	2.54	0.45	1.20	0.14	0.91	0.12	<10
AER23TS-3132	Till	14.60	39.4	0.04	6	1.1	32.6	5.01	19.41	4.02	0.85	3.67	0.48	2.70	0.48	1.26	0.16	0.99	0.14	<10
AER23TS-3133	Till	14.91	39.2	0.04	8	1.0	30.8	5.15	20.06	4.22	0.90	3.91	0.50	2.88	0.51	1.37	0.17	1.05	0.14	<10
AER23TS-3134	Till	15.38	42.9	0.04	6	1.1	30.6	5.46	21.20	4.39	0.92	3.95	0.51	2.89	0.51	1.36	0.17	1.09	0.15	<10
AER23TS-3135	Till	14.19	29.7	0.04	13	0.8	21.7	3.74	15.78	3.51	0.76	3.37	0.45	2.56	0.45	1.20	0.14	0.92	0.12	<10
AER23TS-3136	Rock Pulp	5.71	43.4	0.04	<1	0.2	8.5	5.16	17.77	2.62	0.57	1.81	0.21	1.12	0.19	0.53	0.07	0.45	0.06	45
AER23TS-3137	Till	14.86	30.0	0.04	15	0.9	19.8	3.80	16.22	3.59	0.77	3.54	0.47	2.67	0.48	1.24	0.15	0.90	0.12	<10
AER23TS-3138	Till	13.53	29.5	0.04	11	0.9	22.4	3.72	15.52	3.37	0.72	3.22	0.43	2.44	0.43	1.12	0.13	0.85	0.11	<10
AER23TS-3139	Till	13.52	30.4	0.04	13	0.8	20.3	3.78	15.87	3.47	0.75	3.32	0.44	2.53	0.44	1.16	0.14	0.88	0.12	<10
AER23TS-3140	Till	13.76	27.3	0.04	15	0.8	16.6	3.49	14.94	3.32	0.73	3.29	0.44	2.49	0.44	1.16	0.14	0.85	0.11	<10
AER23TS-3141	Till	14.57	32.6	0.04	10	0.8	17.7	4.04	16.91	3.75	0.80	3.57	0.48	2.72	0.48	1.29	0.16	1.00	0.13	<10
AER23TS-3142	Till	14.46	30.4	0.04	16	0.8	15.2	3.86	16.33	3.70	0.79	3.58	0.47	2.64	0.47	1.22	0.14	0.86	0.12	<10
AER23TS-3143	Till	12.92	30.5	0.04	13	0.9	19.0	3.76	15.72	3.44	0.73	3.24	0.44	2.45	0.43	1.12	0.13	0.85	0.11	<10
AER23TS-3144	Till	12.14	31.9	0.04	10	0.8	20.4	3.77	15.36	3.25	0.68	3.05	0.41	2.23	0.39	1.06	0.13	0.80	0.11	<10
AER23TS-3145	Till	14.90	32.8	0.04	12	0.8	16.8	4.20	17.43	3.76	0.78	3.58	0.47	2.64	0.47	1.25	0.15	0.95	0.13	<10
AER23TS-3146	Till	13.04	27.5	0.04	15	0.8	17.1	3.54	14.93	3.32	0.72	3.24	0.42	2.39	0.42	1.11	0.13	0.80	0.11	<10
AER23TS-3147	Till	13.53	28.9	0.04	16	0.8	18.0	3.62	15.19	3.44	0.74	3.32	0.44	2.50	0.43	1.15	0.14	0.85	0.11	<10
AER23TS-3148	Rock Pulp	5.59	42.6	0.04	<1	0.2	8.9	5.18	17.37	2.58	0.55	1.73	0.19	1.07	0.19	0.51	0.07	0.43	0.06	44



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		Wgt	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	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	0.1
AER23TS-3149	Pulp DUP		715	3	13.5	5.7	14.7	6.0	13.7	97.4	2	138.9	1.1	11.1	6.6	144	1.7	225.5	24.1	34.1	68.2



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	Method Analyte Unit MDL	LF100																				AQ200				AQ200				AQ200				AQ200			
		Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb																
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm																
		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	0.1																
AER23TS-3149	Pulp DUP	7.81	28.5	4.99	1.04	4.50	0.71	4.11	0.85	2.64	0.36	2.43	0.37	6.8	27.1	13.5	126	33.0	12.8	0.7	0.4																



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Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300
		Bi	Ag	Au	Hg	Tl	Se	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr
		ppm	ppm	ppb	ppm	ppm	ppm	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
		MDL	0.1	0.1	0.5	0.01	0.1	0.5	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2
AER23TS-3149	Pulp DUP	0.2	0.2	1.3	0.05	0.2	1.7	64.26	12.76	5.10	1.71	2.27	0.61	2.23	0.69	0.14	0.05	0.012	720	38	140



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CERTIFICATE OF ANALYSIS

VAN23000245.2

Method	Analyte	LF300	LF300	LF300	LF300	LF300	LF300	TC000	TC005	TC005	TC006	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Zr	Y	Nb	Sc	LOI	Sum	TOT/C	C/ORG	C/GRA	CO2	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As
		ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm
		MDL	3	5	1	-5.1	0.01	0.02	0.02	0.02	0.08	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1
AER23TS-3149	Pulp DUP	230	23	13	11	10.0	99.92	1.88	1.50	0.04	1.23	7.66	27.50	14.37	127.3	248	33.8	12.2	333	2.68	13.2



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CERTIFICATE OF ANALYSIS

VAN23000245.2

Method	Analyte	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K
		ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%
		MDL	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001
AER23TS-3149	Pulp DUP	3.6	1.8	6.6	65.2	0.75	0.65	0.26	39	1.40	0.053	14.9	20.0	0.63	251.1	0.005	11	1.24	0.055	0.20



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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be
		ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm
		MDL	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1
AER23TS-3149	Pulp DUP	4.2	0.27	0.61	44	1.6	0.08	4.2	1.69	<0.1	0.14	0.23	19.5	0.7	<0.05	7.3	11.16	30.9	0.03	9	0.7



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CERTIFICATE OF ANALYSIS

VAN23000245.2

Method	Analyte	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ251	AQ251	AQ251	AQ251	AQ251
		Li	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Pd	Pt	Mo	Cu	Pb	Zn	Ag
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppb
		MDL	0.1	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	10	2	0.01	0.01	0.01	0.1	2
AER23TS-3149	Pulp DUP	19.1	3.81	14.82	3.13	0.65	2.99	0.42	2.22	0.40	1.02	0.13	0.77	0.11	<10	<2	7.58	29.06	14.52	131.6	265



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CERTIFICATE OF ANALYSIS

VAN23000245.2

	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti
		ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%
		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	0.5	0.5	0.01	0.5	0.001
AER23TS-3149	Pulp DUP	33.9	13.0	346	2.71	13.8	3.5	1.3	6.4	63.0	0.72	0.50	0.26	37	1.43	0.054	15.0	19.4	0.65	253.7	0.005



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CERTIFICATE OF ANALYSIS

VAN23000245.2

	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr
		ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		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	0.02	0.1	0.1	0.05	0.1
AER23TS-3149	Pulp DUP	11	1.18	0.057	0.19	<0.1	4.2	0.22	0.62	54	2.1	0.08	4.3	1.46	<0.1	0.15	0.24	20.0	0.7	<0.05	8.1



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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Y	Ce	In	Re	Be	Li	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Pd	Pt
		ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb
		MDL	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	0.02	0.02	0.02	10	2
AER23TS-3149	Pulp DUP	11.99	30.6	0.03	9	0.9	20.5	3.67	15.01	3.17	0.66	2.99	0.39	2.23	0.39	1.02	0.12	0.76	0.10	<10	<2



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QUALITY CONTROL REPORT

VAN23000245.2

	Method Analyte Unit MDL	WGHT	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100
		Wgt	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	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	0.1
AER23TS-3127	Till	0.81	735	3	15.0	6.4	15.5	4.2	13.5	106.9	2	150.1	0.8	11.1	7.4	188	1.3	161.4	24.7	38.1	69.3
Pulp Duplicates																					
AER23TS-3120	Till	1.22	902	2	11.7	6.7	15.7	5.5	14.7	101.8	2	152.2	1.0	11.1	4.7	188	1.2	207.3	27.3	36.9	71.0
REP AER23TS-3120	QC																				
AER23TS-3124	Till	2.18	993	<1	11.9	6.6	13.9	4.9	13.8	95.6	2	149.5	1.1	11.5	4.6	158	1.6	198.9	26.9	36.7	69.4
REP AER23TS-3124	QC																				
AER23TS-3137	Till	1.15	686	<1	14.5	6.1	14.4	4.6	12.7	99.9	1	150.8	0.9	11.1	7.9	161	1.1	170.4	24.3	34.9	66.2
REP AER23TS-3137	QC		684	<1	15.5	6.2	14.0	4.9	12.7	97.4	1	151.8	0.8	11.4	8.0	177	1.6	179.1	25.2	35.2	62.7
AER23TS-3138	Till	1.21	745	<1	15.1	6.0	13.9	4.7	12.9	99.5	2	154.3	0.8	10.4	7.0	162	1.2	169.5	23.7	33.9	62.5
REP AER23TS-3138	QC																				
AER23TS-3146	Till	1.03	717	2	15.5	6.3	15.5	5.2	13.8	105.7	2	145.2	0.9	11.3	8.5	176	1.9	187.5	24.4	36.9	66.9
REP AER23TS-3146	QC																				
AER23TS-3149	Pulp DUP		715	3	13.5	5.7	14.7	6.0	13.7	97.4	2	138.9	1.1	11.1	6.6	144	1.7	225.5	24.1	34.1	68.2
REP AER23TS-3149	QC																				
Reference Materials																					
STD BVGE001	Standard																				
STD COO2	Standard																				
STD DS11	Standard																				
STD DS11	Standard																				
STD GGC-09	Standard																				
STD GGC-09	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD OREAS279	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD SO-19	Standard		441	13	21.5	4.1	15.0	2.9	62.1	18.2	17	297.3	4.6	12.9	19.4	150	10.3	105.2	35.6	69.2	152.4
STD SO-19	Standard		474	14	24.2	4.5	16.6	2.9	67.6	20.0	18	327.9	4.5	13.6	20.3	188	9.9	115.1	36.6	72.5	162.7



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QUALITY CONTROL REPORT

VAN23000245.2

	Method Analyte Unit MDL	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		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	0.1
AER23TS-3127	Till	8.05	30.1	5.35	1.11	4.58	0.72	4.12	0.88	2.58	0.37	2.40	0.38	8.5	39.6	13.8	147	45.1	16.5	1.4	0.6
Pulp Duplicates																					
AER23TS-3120	Till	8.24	31.7	5.67	1.23	5.21	0.76	4.97	0.98	2.82	0.41	2.76	0.41	2.6	36.6	14.4	114	35.2	12.9	0.5	0.4
REP AER23TS-3120	QC													2.5	35.3	14.2	113	35.6	12.8	0.5	0.4
AER23TS-3124	Till	8.02	30.3	5.56	1.15	4.86	0.77	4.55	0.96	2.88	0.41	2.55	0.44	2.1	33.3	15.2	117	35.6	12.4	0.5	0.4
REP AER23TS-3124	QC																				
AER23TS-3137	Till	7.63	29.3	5.61	1.11	4.69	0.70	4.12	0.87	2.57	0.36	2.35	0.35	11.5	36.0	13.8	141	41.5	19.0	1.4	0.6
REP AER23TS-3137	QC	7.77	28.6	5.34	1.11	4.71	0.69	4.16	0.87	2.40	0.38	2.44	0.37								
AER23TS-3138	Till	7.52	29.0	5.08	1.06	4.49	0.67	4.00	0.81	2.35	0.34	2.21	0.37	7.8	35.2	12.8	127	43.2	15.1	1.1	0.5
REP AER23TS-3138	QC																				
AER23TS-3146	Till	7.95	31.1	5.29	1.10	4.68	0.69	4.19	0.88	2.59	0.36	2.47	0.38	11.5	33.6	13.5	138	42.0	16.6	1.3	0.5
REP AER23TS-3146	QC																				
AER23TS-3149	Pulp DUP	7.81	28.5	4.99	1.04	4.50	0.71	4.11	0.85	2.64	0.36	2.43	0.37	6.8	27.1	13.5	126	33.0	12.8	0.7	0.4
REP AER23TS-3149	QC																				
Reference Materials																					
STD BVGE001	Standard													9.8	4150.1	171.6	1666	156.5	119.1	5.9	2.8
STD COO2	Standard																				
STD DS11	Standard																				
STD DS11	Standard																				
STD GGC-09	Standard																				
STD GGC-09	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD OREAS279	Standard																				
STD OREAS262	Standard													0.6	115.4	51.8	151	65.0	35.9	0.6	4.1
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD SO-19	Standard	18.42	74.6	12.48	3.40	9.59	1.29	7.10	1.28	3.46	0.50	3.32	0.51								
STD SO-19	Standard	19.52	76.0	12.98	3.64	10.40	1.37	7.08	1.43	3.93	0.55	3.42	0.51								



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QUALITY CONTROL REPORT

VAN23000245.2

	Method Analyte Unit MDL	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300
		Bi	Ag	Au	Hg	Tl	Se	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr
		ppm	ppm	ppb	ppm	ppm	ppm	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
		0.1	0.1	0.5	0.01	0.1	0.5	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
AER23TS-3127	Till	0.3	0.4	1.5	0.06	0.3	2.6	56.31	14.04	5.31	2.74	4.76	0.45	2.63	0.63	0.17	0.04	0.013	768	51	158
Pulp Duplicates																					
AER23TS-3120	Till	0.3	0.3	1.0	0.10	0.2	1.7	64.40	13.22	4.79	1.85	2.48	0.53	2.52	0.68	0.21	0.04	0.013	917	39	153
REP AER23TS-3120	QC	0.3	0.3	1.1	0.11	0.2	1.6	64.33	13.27	4.81	1.88	2.46	0.54	2.51	0.67	0.21	0.04	0.013	925	40	155
AER23TS-3124	Till	0.3	0.3	1.4	0.10	0.2	1.5	63.91	13.41	5.09	1.75	2.39	0.60	2.38	0.70	0.20	0.04	0.013	1031	40	156
REP AER23TS-3124	QC																				
AER23TS-3137	Till	0.3	0.4	1.2	0.07	0.3	2.7	56.72	13.06	5.56	2.63	5.49	0.46	2.48	0.62	0.16	0.04	0.011	707	49	158
REP AER23TS-3137	QC																				
AER23TS-3138	Till	0.2	0.3	1.1	0.06	0.3	2.5	55.97	13.72	5.12	2.74	5.68	0.49	2.53	0.61	0.15	0.04	0.013	793	52	166
REP AER23TS-3138	QC																				
AER23TS-3146	Till	0.3	0.4	1.3	0.05	0.3	2.6	59.51	13.94	5.38	2.21	3.52	0.45	2.51	0.66	0.15	0.04	0.013	725	51	153
REP AER23TS-3146	QC																				
AER23TS-3149	Pulp DUP	0.2	0.2	1.3	0.05	0.2	1.7	64.26	12.76	5.10	1.71	2.27	0.61	2.23	0.69	0.14	0.05	0.012	720	38	140
REP AER23TS-3149	QC																				
Reference Materials																					
STD BVGEO01	Standard	22.2	2.4	204.2	0.09	0.6	4.8														
STD COO2	Standard																				
STD DS11	Standard																				
STD DS11	Standard																				
STD GGC-09	Standard																				
STD GGC-09	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD OREAS279	Standard																				
STD OREAS262	Standard	0.9	0.5	65.0	0.17	0.4	0.6														
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				



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Project:

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March 22, 2023

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Part: 4 of 10

QUALITY CONTROL REPORT

VAN23000245.2

	Method Analyte Unit MDL	LF300	LF300	LF300	LF300	LF300	LF300	TC000	TC005	TC005	TC006	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Zr	Y	Nb	Sc	LOI	Sum	TOT/C	C/ORG	C/GRA	CO2	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As
		ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm
		5	3	5	1	-5.1	0.01	0.02	0.02	0.02	0.08	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1
AER23TS-3127	Till	178	24	16	13	12.6	99.88	3.29	2.10	0.03	4.24	8.67	36.38	13.37	137.4	394	42.0	13.3	246	2.52	16.1
Pulp Duplicates																					
AER23TS-3120	Till	219	27	18	12	9.0	99.91	2.30	1.75	0.03	1.92	2.75	33.33	14.17	111.1	305	34.3	9.8	241	2.33	13.1
REP AER23TS-3120	QC	211	27	16	12	9.0	99.91														
AER23TS-3124	Till	217	27	13	12	9.3	99.92	2.33	1.75	0.03	2.03	2.46	32.95	15.61	120.3	281	36.9	11.1	292	2.60	13.4
REP AER23TS-3124	QC											2.40	32.70	15.36	119.0	287	36.7	11.0	292	2.59	13.3
AER23TS-3137	Till	190	24	14	12	12.5	99.89	3.53	2.09	0.03	5.15	12.57	35.35	13.71	139.4	395	40.9	13.7	277	2.75	19.4
REP AER23TS-3137	QC																				
AER23TS-3138	Till	186	23	13	12	12.7	99.88	3.45	2.04	0.03	5.04	8.62	34.25	13.45	126.2	339	43.2	14.6	293	2.58	15.8
REP AER23TS-3138	QC							3.40		0.03											
AER23TS-3146	Till	196	23	16	12	11.4	99.89	2.99	2.21	0.04	2.73	12.23	32.65	13.46	138.9	352	40.5	14.0	275	2.57	16.7
REP AER23TS-3146	QC										2.72										
AER23TS-3149	Pulp DUP	230	23	13	11	10.0	99.92	1.88	1.50	0.04	1.23	7.66	27.50	14.37	127.3	248	33.8	12.2	333	2.68	13.2
REP AER23TS-3149	QC																				
Reference Materials																					
STD BVGE001	Standard																				
STD COO2	Standard										3.66										
STD DS11	Standard											13.79	147.97	127.78	333.9	1768	77.9	13.0	990	3.01	44.0
STD DS11	Standard																				
STD GGC-09	Standard									2.57											
STD GGC-09	Standard									2.50											
STD GS311-1	Standard							1.02													
STD GS910-4	Standard							2.74													
STD OREAS279	Standard										3.19										
STD OREAS262	Standard																				
STD OREAS262	Standard											0.66	113.64	52.59	146.8	468	63.0	26.1	516	3.19	37.1
STD OREAS262	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				



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QUALITY CONTROL REPORT

VAN23000245.2

	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K
		ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%
		0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01
AER23TS-3127	Till	4.1	1.5	6.7	78.3	1.36	0.85	0.25	48	2.88	0.063	15.2	22.1	1.07	203.1	0.005	17	1.34	0.029	0.29
Pulp Duplicates																				
AER23TS-3120	Till	2.3	1.2	6.7	73.4	0.50	0.54	0.25	34	1.59	0.079	15.2	18.8	0.65	280.5	0.004	14	1.01	0.031	0.22
REP AER23TS-3120	QC																			
AER23TS-3124	Till	2.4	1.4	7.3	81.8	0.57	0.62	0.27	35	1.67	0.081	16.8	21.2	0.64	285.8	0.006	16	1.16	0.057	0.23
REP AER23TS-3124	QC	2.4	1.2	7.2	80.5	0.56	0.60	0.27	36	1.67	0.079	16.5	21.4	0.65	276.1	0.006	16	1.18	0.057	0.23
AER23TS-3137	Till	4.7	1.1	6.5	86.5	1.39	0.98	0.26	43	3.57	0.061	14.4	20.1	1.12	178.4	0.004	18	1.26	0.049	0.27
REP AER23TS-3137	QC																			
AER23TS-3138	Till	3.8	1.7	6.7	95.1	1.11	0.78	0.25	47	3.83	0.059	15.3	23.3	1.17	211.7	0.006	19	1.47	0.064	0.31
REP AER23TS-3138	QC																			
AER23TS-3146	Till	4.8	1.4	6.4	74.0	1.34	0.78	0.25	38	2.21	0.055	14.2	18.6	0.82	204.6	0.003	14	1.19	0.037	0.25
REP AER23TS-3146	QC																			
AER23TS-3149	Pulp DUP	3.6	1.8	6.6	65.2	0.75	0.65	0.26	39	1.40	0.053	14.9	20.0	0.63	251.1	0.005	11	1.24	0.055	0.20
REP AER23TS-3149	QC																			
Reference Materials																				
STD BVGE001	Standard																			
STD COO2	Standard																			
STD DS11	Standard	2.4	78.1	7.0	64.7	2.28	8.34	10.83	48	1.03	0.066	16.9	55.3	0.81	357.2	0.090	7	1.14	0.084	0.40
STD DS11	Standard																			2.9
STD GGC-09	Standard																			
STD GGC-09	Standard																			
STD GS311-1	Standard																			
STD GS910-4	Standard																			
STD OREAS279	Standard																			
STD OREAS262	Standard																			
STD OREAS262	Standard	1.1	69.3	8.6	34.3	0.64	5.57	0.90	22	2.94	0.038	17.0	41.0	1.16	242.8	0.003	4	1.32	0.069	0.32
STD OREAS262	Standard																			0.2
STD SO-19	Standard																			
STD SO-19	Standard																			



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QUALITY CONTROL REPORT

VAN23000245.2

	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be
		ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm
		0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1
AER23TS-3127	Till	4.8	0.35	1.01	62	2.6	0.10	4.4	1.88	<0.1	0.25	0.14	21.7	0.6	<0.05	11.3	12.72	31.6	0.03	14	0.7
Pulp Duplicates																					
AER23TS-3120	Till	4.6	0.19	0.67	79	1.7	0.08	3.4	1.78	<0.1	0.24	0.10	18.9	0.6	<0.05	11.2	15.08	32.3	0.03	6	0.7
REP AER23TS-3120	QC																				
AER23TS-3124	Till	5.0	0.22	0.91	85	1.6	0.11	3.9	2.07	<0.1	0.25	0.13	20.2	0.6	<0.05	11.6	15.14	34.7	0.03	4	0.8
REP AER23TS-3124	QC	5.0	0.22	0.90	99	1.5	0.08	4.0	2.04	<0.1	0.24	0.12	20.2	0.7	<0.05	11.3	15.05	34.8	0.04	4	0.7
AER23TS-3137	Till	4.8	0.30	1.26	58	2.7	0.09	4.2	1.98	<0.1	0.25	0.10	20.7	0.6	<0.05	10.8	13.26	30.2	0.03	13	0.8
REP AER23TS-3137	QC																				
AER23TS-3138	Till	5.0	0.29	1.18	50	2.5	0.10	4.7	2.03	<0.1	0.28	0.15	22.9	0.7	<0.05	12.0	12.62	31.7	0.03	11	0.8
REP AER23TS-3138	QC																				
AER23TS-3146	Till	4.5	0.33	0.88	63	2.3	0.09	4.1	1.81	<0.1	0.16	0.15	20.7	0.6	<0.05	7.4	11.88	29.3	0.03	13	0.7
REP AER23TS-3146	QC																				
AER23TS-3149	Pulp DUP	4.2	0.27	0.61	44	1.6	0.08	4.2	1.69	<0.1	0.14	0.23	19.5	0.7	<0.05	7.3	11.16	30.9	0.03	9	0.7
REP AER23TS-3149	QC																				
Reference Materials																					
STD BVGE001	Standard																				
STD COO2	Standard																				
STD DS11	Standard	3.1	4.97	0.26	249	2.1	4.77	4.8	2.82	<0.1	0.06	1.62	32.7	1.7	<0.05	2.9	7.66	34.3	0.23	43	0.7
STD DS11	Standard																				
STD GGC-09	Standard																				
STD GGC-09	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD OREAS279	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard	3.2	0.48	0.25	149	0.8	0.26	3.9	2.97	<0.1	0.29	<0.02	18.7	0.5	<0.05	12.8	10.59	34.4	0.03	<1	1.0
STD OREAS262	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				



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QUALITY CONTROL REPORT

VAN23000245.2

	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ251	AQ251	AQ251	AQ251	AQ251
		Li	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Pd	Pt	Mo	Cu	Pb	Zn	Ag
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppb
		0.1	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	10	2	0.01	0.01	0.01	0.1	2
AER23TS-3127	Till	19.0	4.02	15.88	3.42	0.73	3.23	0.45	2.46	0.44	1.12	0.15	0.86	0.12	<10	<2	9.01	39.07	14.66	147.0	438
Pulp Duplicates																					
AER23TS-3120	Till	16.6	4.22	17.10	3.78	0.83	3.71	0.53	2.90	0.54	1.37	0.18	1.06	0.15	<10	<2	2.70	35.76	14.97	112.3	311
REP AER23TS-3120	QC																				
AER23TS-3124	Till	18.5	4.45	17.77	3.94	0.84	3.79	0.54	2.96	0.55	1.42	0.18	1.11	0.15	<10	<2	2.36	34.26	16.10	120.2	309
REP AER23TS-3124	QC	18.7	4.39	17.58	3.92	0.83	3.71	0.53	2.92	0.54	1.40	0.18	1.09	0.15	<10	<2					
AER23TS-3137	Till	17.7	3.88	15.66	3.50	0.73	3.34	0.48	2.60	0.47	1.19	0.15	0.87	0.12	<10	<2	12.78	37.34	14.51	149.8	423
REP AER23TS-3137	QC																				
AER23TS-3138	Till	20.7	4.00	15.99	3.52	0.72	3.20	0.46	2.46	0.45	1.12	0.14	0.85	0.12	<10	<2	8.59	35.04	13.55	133.6	350
REP AER23TS-3138	QC																				
AER23TS-3146	Till	15.9	3.72	14.93	3.28	0.69	3.12	0.44	2.34	0.42	1.06	0.13	0.78	0.11	<10	<2	12.78	34.79	14.09	147.4	376
REP AER23TS-3146	QC																				
AER23TS-3149	Pulp DUP	19.1	3.81	14.82	3.13	0.65	2.99	0.42	2.22	0.40	1.02	0.13	0.77	0.11	<10	<2	7.58	29.06	14.52	131.6	265
REP AER23TS-3149	QC																7.56	28.29	14.48	130.4	260
Reference Materials																					
STD BVGE001	Standard																				
STD COO2	Standard																				
STD DS11	Standard	21.8	3.68	13.74	2.49	0.47	2.03	0.27	1.51	0.28	0.76	0.11	0.71	0.10	91	165					
STD DS11	Standard																13.85	148.14	131.70	340.8	1821
STD GGC-09	Standard																				
STD GGC-09	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD OREAS279	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard	16.5	4.08	15.65	3.35	0.62	2.92	0.40	2.11	0.39	1.03	0.14	0.84	0.12	<10	<2					
STD OREAS262	Standard																0.64	113.11	52.34	153.1	474
STD SO-19	Standard																				
STD SO-19	Standard																				



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QUALITY CONTROL REPORT

VAN23000245.2

	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti
		ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%
		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	0.5	0.5	0.01	0.5	0.001
AER23TS-3127	Till	43.9	14.3	268	2.70	17.1	4.4	1.3	7.3	80.3	1.40	0.65	0.28	50	3.02	0.070	16.4	23.2	1.18	212.6	0.006
Pulp Duplicates																					
AER23TS-3120	Till	34.4	10.1	251	2.41	12.6	2.4	1.3	7.1	71.4	0.51	0.40	0.26	33	1.60	0.086	15.8	18.7	0.67	284.2	0.005
REP AER23TS-3120	QC																				
AER23TS-3124	Till	36.2	11.3	302	2.63	12.9	2.5	1.4	7.1	77.7	0.52	0.48	0.28	34	1.71	0.083	16.5	20.2	0.67	238.1	0.006
REP AER23TS-3124	QC																				
AER23TS-3137	Till	41.7	14.6	290	2.86	20.0	4.8	0.8	6.6	88.5	1.33	0.80	0.27	43	3.60	0.065	14.8	20.1	1.17	185.2	0.006
REP AER23TS-3137	QC																				
AER23TS-3138	Till	42.6	14.8	300	2.60	15.7	3.8	0.8	6.5	89.0	1.14	0.59	0.26	43	3.70	0.061	14.3	21.6	1.17	194.1	0.006
REP AER23TS-3138	QC																				
AER23TS-3146	Till	41.4	15.4	295	2.69	17.4	4.8	1.3	6.3	73.7	1.39	0.65	0.27	33	2.33	0.057	13.5	17.1	0.85	193.9	0.004
REP AER23TS-3146	QC																				
AER23TS-3149	Pulp DUP	33.9	13.0	346	2.71	13.8	3.5	1.3	6.4	63.0	0.72	0.50	0.26	37	1.43	0.054	15.0	19.4	0.65	253.7	0.005
REP AER23TS-3149	QC	33.9	12.8	345	2.73	13.8	3.6	1.3	6.4	62.4	0.70	0.51	0.26	38	1.41	0.057	14.8	20.2	0.64	252.2	0.005
Reference Materials																					
STD BVGE001	Standard																				
STD COO2	Standard																				
STD DS11	Standard																				
STD DS11	Standard	78.2	13.8	1017	3.09	44.4	2.4	68.3	7.1	62.5	2.21	7.90	11.40	50	1.06	0.068	17.0	57.5	0.83	380.3	0.086
STD GGC-09	Standard																				
STD GGC-09	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD OREAS279	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard	61.8	27.2	524	3.23	36.6	1.1	60.3	8.5	32.9	0.58	4.53	0.90	22	2.86	0.037	16.1	40.9	1.18	233.6	0.003
STD SO-19	Standard																				
STD SO-19	Standard																				



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QUALITY CONTROL REPORT

VAN23000245.2

	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr
		ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		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	0.02	0.1	0.1	0.05	0.1
AER23TS-3127	Till	21	1.39	0.034	0.30	<0.1	5.1	0.32	1.14	61	3.0	0.08	4.6	1.78	<0.1	0.30	0.16	22.8	0.7	<0.05	13.3
Pulp Duplicates																					
AER23TS-3120	Till	17	0.98	0.033	0.22	<0.1	4.7	0.16	0.70	101	1.9	0.07	3.4	1.65	<0.1	0.27	0.11	19.7	0.6	<0.05	12.5
REP AER23TS-3120	QC																				
AER23TS-3124	Till	17	1.11	0.059	0.22	<0.1	5.0	0.18	0.95	114	1.6	0.07	3.8	1.84	<0.1	0.26	0.13	20.3	0.6	<0.05	13.0
REP AER23TS-3124	QC																				
AER23TS-3137	Till	20	1.25	0.053	0.27	<0.1	4.9	0.24	1.36	64	3.0	0.09	4.3	1.77	<0.1	0.30	0.12	21.6	0.6	<0.05	13.3
REP AER23TS-3137	QC																				
AER23TS-3138	Till	20	1.32	0.066	0.28	<0.1	4.9	0.23	1.21	62	2.8	0.08	4.6	1.72	<0.1	0.28	0.15	22.5	0.7	<0.05	12.7
REP AER23TS-3138	QC																				
AER23TS-3146	Till	14	1.04	0.039	0.22	<0.1	4.5	0.27	0.94	50	2.9	0.09	4.0	1.52	<0.1	0.19	0.17	20.5	0.6	<0.05	9.4
REP AER23TS-3146	QC																				
AER23TS-3149	Pulp DUP	11	1.18	0.057	0.19	<0.1	4.2	0.22	0.62	54	2.1	0.08	4.3	1.46	<0.1	0.15	0.24	20.0	0.7	<0.05	8.1
REP AER23TS-3149	QC	13	1.20	0.056	0.20	<0.1	4.3	0.23	0.65	50	2.1	0.07	4.3	1.55	<0.1	0.15	0.23	20.1	0.7	<0.05	8.4
Reference Materials																					
STD BVGE001	Standard																				
STD COO2	Standard																				
STD DS11	Standard																				
STD DS11	Standard	7	1.13	0.082	0.41	3.1	3.1	4.89	0.28	254	2.6	4.99	4.9	2.86	<0.1	0.07	1.71	33.8	1.6	<0.05	3.4
STD GGC-09	Standard																				
STD GGC-09	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD OREAS279	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard	5	1.28	0.071	0.32	0.2	3.1	0.44	0.26	156	0.8	0.23	3.9	2.59	<0.1	0.30	<0.02	18.8	0.5	<0.05	13.3
STD SO-19	Standard																				
STD SO-19	Standard																				



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Y	Ce	In	Re	Be	Li	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Pd	Pt
		ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb
		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	0.02	0.02	0.02	10	2
AER23TS-3127	Till	14.14	33.4	0.04	16	1.0	23.3	4.09	17.13	3.64	0.78	3.43	0.46	2.60	0.47	1.24	0.15	0.93	0.13	<10	<2
Pulp Duplicates																					
AER23TS-3120	Till	16.26	32.1	0.04	6	0.8	19.3	4.06	17.29	3.82	0.84	3.75	0.51	2.95	0.53	1.40	0.17	1.08	0.15	<10	<2
REP AER23TS-3120	QC																				
AER23TS-3124	Till	15.75	33.5	0.04	4	0.9	21.1	4.23	17.68	3.92	0.85	3.78	0.51	2.98	0.53	1.44	0.18	1.11	0.15	<10	<2
REP AER23TS-3124	QC																				
AER23TS-3137	Till	14.86	30.0	0.04	15	0.9	19.8	3.80	16.22	3.59	0.77	3.54	0.47	2.67	0.48	1.24	0.15	0.90	0.12	<10	<2
REP AER23TS-3137	QC																				
AER23TS-3138	Till	13.53	29.5	0.04	11	0.9	22.4	3.72	15.52	3.37	0.72	3.22	0.43	2.44	0.43	1.12	0.13	0.85	0.11	<10	<2
REP AER23TS-3138	QC																				
AER23TS-3146	Till	13.04	27.5	0.04	15	0.8	17.1	3.54	14.93	3.32	0.72	3.24	0.42	2.39	0.42	1.11	0.13	0.80	0.11	<10	<2
REP AER23TS-3146	QC																				
AER23TS-3149	Pulp DUP	11.99	30.6	0.03	9	0.9	20.5	3.67	15.01	3.17	0.66	2.99	0.39	2.23	0.39	1.02	0.12	0.76	0.10	<10	<2
REP AER23TS-3149	QC	11.94	30.7	0.04	9	0.9	21.4	3.70	15.09	3.23	0.66	2.98	0.39	2.24	0.39	1.05	0.12	0.78	0.11	<10	<2
Reference Materials																					
STD BVGE001	Standard																				
STD COO2	Standard																				
STD DS11	Standard																				
STD DS11	Standard	8.10	34.4	0.24	46	0.7	23.4	3.58	13.94	2.52	0.48	2.10	0.26	1.48	0.27	0.77	0.10	0.72	0.10	103	175
STD GGC-09	Standard																				
STD GGC-09	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD OREAS279	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard	11.33	32.3	0.03	<1	1.2	18.0	3.69	14.93	3.18	0.62	2.90	0.36	2.04	0.36	1.00	0.13	0.85	0.11	<10	<2
STD SO-19	Standard																				
STD SO-19	Standard																				



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QUALITY CONTROL REPORT

VAN23000245.2

		WGHT	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100
		Wgt	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	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	0.1
STD SO-19	Standard																				
STD SO-19	Standard																				
STD COO2 Expected																					
STD OREAS279 Expected																					
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD BVGEO01 Expected																					
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	161
STD GGC-09 Expected																					
STD DS11 Expected																					
STD OREAS262 Expected																					
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank		1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	0.8	0.5	<0.1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				



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		LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		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	0.1
STD SO-19	Standard																				
STD SO-19	Standard																				
STD COO2 Expected																					
STD OREAS279 Expected																					
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD BVGE001 Expected														10.8	4415	187	1712	163	121	6.25	2.2
STD SO-19 Expected		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 GGC-09 Expected																					
STD DS11 Expected																					
STD OREAS262 Expected														0.68	118	56	154	62	35.8	0.61	3.39
BLK	Blank																				
BLK	Blank																				
BLK	Blank													<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1
BLK	Blank																				
BLK	Blank	<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																				
BLK	Blank																				
BLK	Blank																				



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		AQ200	AQ200	AQ200	AQ200	AQ200	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300
		Bi	Ag	Au	Hg	Tl	Se	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr
		ppm	ppm	ppb	ppm	ppm	ppm	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
		0.1	0.1	0.5	0.01	0.1	0.5	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
STD SO-19	Standard							60.67	13.84	7.44	2.90	6.01	3.97	1.27	0.70	0.31	0.13	0.497	470	470	316
STD SO-19	Standard							60.91	13.74	7.44	2.89	5.88	3.97	1.28	0.69	0.31	0.13	0.498	470	469	315
STD COO2 Expected																					
STD OREAS279 Expected																					
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD BVGEO01 Expected		24.3	2.53	214	0.1	0.62	4.84														
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
STD GGC-09 Expected																					
STD DS11 Expected																					
STD OREAS262 Expected		1.03	0.45	65	0.17	0.47	0.4														
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5														
BLK	Blank																				
BLK	Blank																				
BLK	Blank							0.02	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2
BLK	Blank																				
BLK	Blank																				



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QUALITY CONTROL REPORT

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		LF300 Zr ppm 5	LF300 Y ppm 3	LF300 Nb ppm 5	LF300 Sc ppm 1	LF300 LOI % -5.1	LF300 Sum % 0.01	TC000 TOT/C % 0.02	TC005 C/ORG % 0.02	TC005 C/GRA % 0.02	TC006 CO2 % 0.08	AQ252 Mo ppm 0.01	AQ252 Cu ppm 0.01	AQ252 Pb ppm 0.01	AQ252 Zn ppm 0.1	AQ252 Ag ppb 2	AQ252 Ni ppm 0.1	AQ252 Co ppm 0.1	AQ252 Mn ppm 1	AQ252 Fe % 0.01	AQ252 As ppm 0.1
STD SO-19	Standard	110	34	73	26	1.9	99.86														
STD SO-19	Standard	109	34	73	27	1.9	99.86														
STD COO2 Expected											3.43										
STD OREAS279 Expected											3.29										
STD GS311-1 Expected								1.02													
STD GS910-4 Expected								2.65													
STD BVGEO01 Expected																					
STD SO-19 Expected		112	35.5	68.5	27																
STD GGC-09 Expected									2.41												
STD DS11 Expected												14.6	149	138	345	1710	77.7	14.2	1055	3.1	42.8
STD OREAS262 Expected												0.68	118	56	154	450	62	26.9	530	3.284	35.8
BLK	Blank										<0.08										
BLK	Blank							<0.02													
BLK	Blank																				
BLK	Blank											<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1
BLK	Blank																				
BLK	Blank	<5	<3	<5	<1	0.0	<0.01														
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				



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QUALITY CONTROL REPORT

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		AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W
		ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm
		0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1
STD SO-19	Standard																				
STD SO-19	Standard																				
STD COO2 Expected																					
STD OREAS279 Expected																					
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD BVGEO01 Expected																					
STD SO-19 Expected																					
STD GGC-09 Expected																					
STD DS11 Expected		2.59	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701	18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9
STD OREAS262 Expected		1.22	65	9.33	36	0.61	5.06	1.03	22.5	2.98	0.04	15.9	41.7	1.17	248	0.0027	4	1.3	0.071	0.312	0.2
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1
BLK	Blank																				
BLK	Blank																				
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BLK	Blank																				
BLK	Blank																				



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		AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be
		ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm
		0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1
STD SO-19	Standard																				
STD SO-19	Standard																				
STD COO2 Expected																					
STD OREAS279 Expected																					
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD BVGEO01 Expected																					
STD SO-19 Expected																					
STD GGC-09 Expected																					
STD DS11 Expected		3.4	4.9	0.2835	260	2.2	4.56	5.1	2.88	0.08	0.06	1.53	33.6	1.8		3.1	7.82	37	0.24	50	0.67
STD OREAS262 Expected		3.24	0.47	0.253	170	0.4	0.23	4.1	2.8		0.27		18.6	0.5		11.7	11.2	32	0.033		1.14
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				



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		AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ251	AQ251	AQ251	AQ251	AQ251	
		Li	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Pd	Pt	Mo	Cu	Pb	Zn	Ag
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppb
		0.1	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	10	2	0.01	0.01	0.01	0.1	2
STD SO-19	Standard																				
STD SO-19	Standard																				
STD COO2 Expected																					
STD OREAS279 Expected																					
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD BVGEO01 Expected																					
STD SO-19 Expected																					
STD GGC-09 Expected																					
STD DS11 Expected		23.3	4	14.9	2.68	0.54	2.22	0.29	1.57	0.29	0.81	0.11	0.75	0.11	100	172	14.6	149	138	345	1710
STD OREAS262 Expected		17.8	4	15	3.3	0.72	2.93	0.43	2.29	0.41	1.07	0.14	0.9	0.13			0.68	118	56	154	450
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<10	<2					
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																<0.01	<0.01	<0.01	<0.1	<2



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QUALITY CONTROL REPORT

VAN23000245.2

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti
		ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%
		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	0.5	0.5	0.01	0.5	0.001
STD SO-19	Standard																				
STD SO-19	Standard																				
STD COO2 Expected																					
STD OREAS279 Expected																					
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD BVGEO01 Expected																					
STD SO-19 Expected																					
STD GGC-09 Expected																					
STD DS11 Expected		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	18.6	61.5	0.85	385	0.0976
STD OREAS262 Expected		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	15.9	41.7	1.17	248	0.0027
BLK	Blank																				
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BLK	Blank																				
BLK	Blank	<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	<0.5	<0.5	<0.01	<0.5	<0.001



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		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr
		ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		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	0.02	0.1	0.1	0.05	0.1
STD SO-19	Standard																				
STD SO-19	Standard																				
STD COO2 Expected																					
STD OREAS279 Expected																					
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD BVGEO01 Expected																					
STD SO-19 Expected																					
STD GGC-09 Expected																					
STD DS11 Expected		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	1.53	33.6	1.8		3.1	
STD OREAS262 Expected		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		18.6	0.5		11.7
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BLK	Blank																				
BLK	Blank																				
BLK	Blank	<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	<0.02	<0.1	<0.1	<0.05	<0.1



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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.