



**BUREAU** MINERAL LABORATORIES  
**VERITAS** Canada

[www.bvna.com/mining-laboratory-services](http://www.bvna.com/mining-laboratory-services)

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: November 15, 2022  
Analysis Start: January 04, 2023  
Report Date: February 07, 2023  
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## CERTIFICATE OF ANALYSIS

VAN22003127.1

### CLIENT JOB INFORMATION

Project: AER  
Shipment ID: 33323055  
P.O. Number: 2207801  
Number of Samples: 41

### SAMPLE DISPOSAL

IMM-PLP Return immediately after analysis  
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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	37	Dry at 60C sieve 100g to -230 mesh			VAN
LF300	41	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed	VAN
SLBHP	4	Sort, label and box pulps			VAN
SPTPL	35	Splitting of pulp samples for extra analysis			VAN
LF100-EXT	41	LiBO2/Li2B4O7 fusion ICP-MS analysis	0.2	Completed	VAN
TC000-C	41	Total C Analysis by Leco	0.1	Completed	VAN
TC005	41	Graphite and Organic C by Leco After Ignition	0.1	Completed	VAN
TC006	41	Inorganic Carbon	0.2	Completed	VAN
AQ251_EXT_REE	41	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
Ship	1	Shipping charges for collect packages			VAN

### ADDITIONAL COMMENTS

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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		Method	WGHT	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300
		Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	LF300	LF300	LF300	LF300	LF300	LF300	LF300
		Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1
	AER22TS-2021	Pulp DUP		66.98	12.22	5.07	1.62	1.65	0.84	1.97	0.72	0.17	0.05	0.009	706	26	134	319	28	12	12
	AER22TS-2022	Till	1.57	72.76	11.36	3.94	1.06	0.83	0.96	1.97	0.64	0.15	0.04	0.007	592	<20	126	388	29	13	10
	AER22TS-2023	Till	2.05	67.74	12.13	5.20	1.47	1.37	0.90	2.08	0.68	0.19	0.15	0.009	716	56	131	355	30	12	11
	AER22TS-2024	Till	1.53	70.73	11.14	4.68	1.18	1.03	0.80	1.73	0.64	0.13	0.05	0.007	602	23	119	407	36	14	10
	AER22TS-2025	Till	1.56	62.06	14.36	6.05	1.66	1.25	1.22	1.76	0.74	0.17	0.06	0.014	858	52	177	208	35	10	14
	AER22TS-2026	Till	1.35	65.79	13.38	5.27	1.29	0.86	0.87	1.84	0.71	0.16	0.07	0.012	662	28	124	289	30	12	13
	AER22TS-2027	Till	1.81	65.23	12.89	5.37	1.53	1.80	0.88	1.99	0.70	0.19	0.09	0.010	830	34	139	296	27	14	12
	AER22TS-2028	Till	1.63	66.86	12.11	5.16	1.62	1.69	0.82	1.93	0.71	0.18	0.05	0.010	703	28	134	335	27	11	12
	AER22TS-2029	Till	1.85	66.76	12.24	5.12	1.62	1.65	0.82	1.99	0.72	0.18	0.05	0.010	707	31	134	332	27	11	12
	AER22TS-2030	Till	1.26	66.03	13.83	5.30	1.36	0.94	0.91	2.17	0.68	0.15	0.06	0.010	678	31	128	310	29	16	13
	AER22TS-2031	Till	1.49	64.42	12.68	5.04	1.88	2.48	0.95	2.06	0.70	0.17	0.06	0.010	778	30	148	306	26	13	12
	AER22TS-2032	Till	1.78	66.76	12.99	5.01	1.25	1.07	1.12	1.88	0.73	0.17	0.05	0.012	745	30	157	301	32	12	13
	AER22TS-2033	Till	1.72	60.67	12.06	4.68	3.19	4.92	1.37	2.32	0.62	0.17	0.09	0.010	652	31	177	309	27	12	11
	AER22TS-2034	Rock Pulp	0.06	71.91	12.09	3.99	1.71	3.27	3.40	1.41	0.38	0.13	0.06	0.014	465	81	396	150	11	16	9
	AER22TS-2035	Till	1.91	72.60	10.66	4.23	1.12	0.89	1.04	1.86	0.64	0.15	0.06	0.009	673	25	135	445	34	9	10
	AER22TS-2036	Till	1.72	64.41	12.33	4.79	1.88	2.95	0.94	2.04	0.67	0.18	0.07	0.010	722	32	146	312	26	13	11
	AER22TS-2037	Till	1.48	65.73	13.40	5.47	1.33	0.99	0.94	1.99	0.72	0.19	0.06	0.012	740	39	135	313	34	12	13
	AER22TS-2038	Till	1.35	65.14	12.33	6.88	1.27	1.53	0.69	1.93	0.69	0.19	0.15	0.009	684	40	126	352	32	15	13
	AER22TS-2039	Till	1.74	56.67	12.97	4.71	2.28	6.66	1.55	1.99	0.62	0.19	0.08	0.013	874	40	224	206	20	12	11
	AER22TS-2040	Till	2.14	62.37	12.90	4.42	1.86	4.17	1.77	2.06	0.67	0.22	0.08	0.014	886	36	232	298	22	12	11
	AER22TS-2041	Pulp DUP		62.50	12.87	4.39	1.85	4.20	1.79	2.06	0.68	0.21	0.08	0.014	881	30	235	318	24	12	10
	AER22TS-2042	Till	2.13	62.20	12.59	4.17	1.95	4.65	1.52	2.09	0.59	0.17	0.07	0.010	961	30	231	246	21	8	10
	AER22TS-2043	Till	2.07	60.00	12.73	4.47	1.97	5.75	1.56	2.15	0.60	0.20	0.08	0.009	966	28	227	214	20	11	10
	AER22TS-2044	Till	1.77	64.57	14.48	4.75	1.84	1.48	1.72	2.03	0.61	0.20	0.04	0.010	841	35	215	209	24	10	13
	AER22TS-2045	Till	2.14	57.05	14.36	6.26	2.46	4.23	1.33	2.66	0.68	0.19	0.07	0.011	1035	51	192	125	19	11	14
	AER22TS-2046	Till	2.00	62.81	11.83	3.43	1.88	5.83	1.79	2.05	0.59	0.21	0.08	0.008	1231	<20	319	245	22	14	8
	AER22TS-2047	Till	2.28	62.76	14.97	5.45	1.81	1.40	1.48	2.39	0.67	0.19	0.09	0.013	1000	46	174	233	35	12	15
	AER22TS-2048	Till	1.65	63.52	14.50	5.78	1.72	1.41	1.55	2.52	0.66	0.21	0.09	0.011	950	36	174	200	26	13	13
	AER22TS-2049	Till	1.60	62.85	13.70	5.12	1.80	2.28	1.05	2.27	0.62	0.19	0.09	0.010	841	41	141	282	36	13	12
	AER22TS-2050	Till	1.49	65.16	14.19	4.54	1.63	1.86	2.01	1.98	0.57	0.19	0.03	0.010	943	35	216	155	19	10	12



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Method	Unit	MDL	LF300 Sum %	LF100 Ba ppm	LF100 Be ppm	LF100 Co ppm	LF100 Cs ppm	LF100 Ga ppm	LF100 Hf ppm	LF100 Nb ppm	LF100 Rb ppm	LF100 Sn ppm	LF100 Sr ppm	LF100 Ta ppm	LF100 Th ppm	LF100 U ppm	LF100 V ppm	LF100 W ppm	LF100 Zr ppm	LF100 Y ppm	LF100 La ppm	LF100 Ce 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
AER22TS-2021	Pulp DUP		99.91	686	4	11.6	4.1	12.7	7.6	11.2	71.8	1	129.8	0.7	9.6	2.6	121	1.0	292.0	27.1	32.4	58.8
AER22TS-2022	Till		99.94	584	1	9.7	3.6	12.3	9.2	11.9	66.5	1	128.2	0.7	11.4	2.7	98	1.0	349.3	30.2	36.9	71.1
AER22TS-2023	Till		99.91	671	4	21.9	4.0	13.1	8.3	11.8	75.3	1	127.2	0.9	11.4	2.7	116	1.3	324.3	31.4	40.9	84.7
AER22TS-2024	Till		99.93	596	1	10.0	3.2	12.0	9.4	11.6	64.2	1	121.0	0.8	11.1	2.8	105	1.0	366.4	35.1	41.3	71.9
AER22TS-2025	Till		99.91	834	<1	12.6	3.5	14.1	5.3	8.7	55.0	1	179.5	0.6	7.0	2.3	131	1.1	191.5	35.3	32.1	57.4
AER22TS-2026	Till		99.91	648	<1	15.3	4.2	13.4	6.9	11.0	65.2	1	121.6	0.8	9.2	2.5	126	1.0	268.7	30.1	34.2	66.8
AER22TS-2027	Till		99.91	825	4	14.6	4.4	13.4	7.1	12.2	77.6	1	140.7	0.9	9.7	2.6	136	1.1	276.3	27.2	35.4	67.0
AER22TS-2028	Till		99.92	685	1	11.6	3.9	12.5	7.6	11.5	69.5	1	134.0	0.9	9.0	2.4	114	1.3	300.1	26.5	31.2	61.0
AER22TS-2029	Till		99.91	706	<1	11.8	3.9	13.1	7.6	11.3	70.3	1	131.6	0.8	9.4	2.6	115	1.0	303.9	26.2	31.8	62.1
AER22TS-2030	Till		99.91	681	3	12.3	4.7	14.8	7.3	11.6	83.4	2	125.1	0.8	11.9	2.8	124	1.0	286.7	27.4	41.3	80.3
AER22TS-2031	Till		99.92	782	3	12.9	3.7	12.8	6.8	10.6	73.6	1	144.5	0.8	9.9	2.5	117	1.0	262.2	26.5	32.9	63.6
AER22TS-2032	Till		99.92	732	4	11.1	3.5	13.3	7.8	10.4	67.8	1	153.4	0.7	9.1	2.5	126	1.4	305.0	30.5	34.3	67.1
AER22TS-2033	Till		99.89	647	3	13.6	2.6	12.3	7.3	10.6	74.0	1	169.0	0.6	11.7	2.7	95	0.9	289.2	26.7	36.6	78.5
AER22TS-2034	Rock Pulp		99.87	466	4	52.6	1.9	12.6	3.9	15.7	36.2	6	388.3	0.5	3.5	0.7	58	<0.5	151.6	11.3	31.5	55.7
AER22TS-2035	Till		99.94	670	4	9.3	2.9	11.2	10.5	10.5	70.2	1	135.9	0.7	10.7	3.3	84	1.4	418.3	35.1	38.4	67.6
AER22TS-2036	Till		99.91	718	1	11.7	3.9	13.5	7.0	11.1	72.8	1	141.9	1.0	10.3	2.4	110	1.0	279.0	26.6	33.9	65.5
AER22TS-2037	Till		99.92	709	1	12.2	4.5	13.6	7.3	11.1	70.7	2	133.1	0.7	10.3	2.7	119	1.2	283.1	31.7	36.9	67.2
AER22TS-2038	Till		99.91	656	3	13.3	4.4	13.2	8.0	11.7	73.2	2	125.5	1.0	12.0	3.0	132	1.1	323.9	30.7	37.3	74.8
AER22TS-2039	Till		99.90	858	3	16.5	2.9	13.5	4.9	9.0	63.0	<1	216.3	0.6	8.0	2.5	94	1.1	182.1	19.0	27.3	50.7
AER22TS-2040	Till		99.91	848	1	11.5	2.9	12.4	7.3	9.7	62.6	<1	224.8	0.7	9.0	2.5	99	1.1	277.5	21.6	31.4	60.0
AER22TS-2041	Pulp DUP		99.92	860	3	10.8	2.8	13.1	7.1	9.9	61.8	1	231.4	0.8	9.6	2.4	86	1.1	278.5	21.7	31.0	61.7
AER22TS-2042	Till		99.91	916	1	10.5	3.2	12.3	5.9	9.7	65.7	<1	227.0	0.7	9.0	2.4	79	1.4	223.9	21.2	29.8	56.7
AER22TS-2043	Till		99.91	964	1	12.6	3.0	13.7	5.1	10.0	67.6	1	225.4	0.8	9.4	2.9	85	1.2	207.8	21.5	30.0	58.4
AER22TS-2044	Till		99.91	843	1	10.3	3.4	14.7	5.2	9.9	67.3	2	213.3	0.9	10.2	2.9	92	1.5	200.5	24.2	30.4	62.9
AER22TS-2045	Till		99.90	1061	4	15.2	5.2	16.1	3.2	9.3	92.0	2	193.5	0.8	8.5	2.5	123	1.7	116.4	19.2	25.6	51.7
AER22TS-2046	Till		99.92	1256	1	9.1	2.7	11.9	6.1	9.9	60.2	1	318.1	0.7	8.6	2.8	67	1.5	236.0	22.7	30.6	60.3
AER22TS-2047	Till		99.91	1003	1	12.0	4.4	15.9	5.6	10.5	79.8	2	173.4	0.7	11.7	3.4	114	1.4	221.2	34.9	38.5	70.5
AER22TS-2048	Till		99.91	899	<1	11.5	4.1	15.0	5.1	10.2	75.6	1	163.1	0.6	10.5	2.7	93	1.6	188.3	25.5	32.0	62.2
AER22TS-2049	Till		99.91	821	<1	12.0	3.9	15.1	6.8	11.3	76.7	1	139.7	0.8	12.1	3.0	102	1.1	261.4	35.0	42.2	70.0
AER22TS-2050	Till		99.93	946	8	16.0	3.3	14.2	4.3	8.8	65.7	2	208.1	0.7	7.5	1.9	85	1.0	150.4	18.5	24.3	46.7



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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
AER22TS-2021	Pulp DUP	7.44	26.9	5.21	1.11	5.00	0.76	4.47	0.97	2.80	0.41	2.75	0.42	1.0	25.0	11.4	80	28.4	10.4	0.2	0.3
AER22TS-2022	Till	8.49	32.0	6.11	1.18	5.82	0.82	5.02	1.00	3.15	0.46	2.94	0.43	0.9	19.4	10.1	53	21.5	6.9	<0.1	0.2
AER22TS-2023	Till	9.40	34.4	6.44	1.33	6.14	0.90	5.54	1.02	3.21	0.48	3.09	0.49	1.3	26.9	16.7	77	60.6	11.0	0.5	0.3
AER22TS-2024	Till	9.90	38.4	7.02	1.52	7.16	1.01	5.94	1.27	3.62	0.53	3.26	0.54	1.2	22.2	11.2	51	29.0	10.0	<0.1	0.2
AER22TS-2025	Till	8.04	33.5	6.74	1.72	7.08	1.02	5.89	1.23	3.45	0.49	3.22	0.51	0.8	41.1	11.8	90	55.9	12.1	<0.1	0.4
AER22TS-2026	Till	8.14	30.7	6.33	1.42	6.06	0.88	5.11	1.08	3.21	0.45	2.93	0.45	1.6	28.0	13.1	66	34.6	9.9	<0.1	0.2
AER22TS-2027	Till	7.89	30.7	5.58	1.20	5.30	0.80	4.83	1.01	2.87	0.42	2.76	0.41	1.4	28.5	14.0	79	37.6	11.0	0.3	0.3
AER22TS-2028	Till	7.25	27.1	5.16	1.14	5.11	0.75	4.74	0.95	2.87	0.42	2.65	0.43	1.0	24.5	11.6	80	29.1	11.2	0.2	0.3
AER22TS-2029	Till	7.30	27.9	5.32	1.11	5.07	0.75	4.66	0.96	2.83	0.40	2.62	0.41	1.1	24.9	11.6	81	28.9	10.6	0.2	0.3
AER22TS-2030	Till	9.60	35.2	6.96	1.47	6.12	0.90	5.28	1.00	2.98	0.44	2.78	0.41	1.1	26.8	12.5	64	30.9	9.3	<0.1	0.3
AER22TS-2031	Till	7.69	29.2	5.62	1.17	5.22	0.76	4.44	0.89	2.83	0.40	2.82	0.39	0.9	25.8	11.5	79	30.5	9.8	0.3	0.3
AER22TS-2032	Till	8.68	34.0	7.26	1.58	6.75	0.99	5.68	1.16	3.54	0.49	3.19	0.51	0.8	26.2	11.0	72	30.2	10.0	<0.1	0.2
AER22TS-2033	Till	8.54	30.7	6.06	1.11	5.38	0.78	4.66	0.92	2.65	0.39	2.70	0.42	0.7	31.1	10.8	68	31.1	6.1	0.3	0.2
AER22TS-2034	Rock Pulp	6.55	22.9	3.83	0.97	2.90	0.37	2.09	0.42	1.17	0.16	1.05	0.16	12.4	164.8	279.1	221	85.2	10.0	0.5	0.2
AER22TS-2035	Till	8.85	33.2	6.66	1.42	6.40	0.98	5.71	1.22	3.42	0.49	3.32	0.50	0.7	19.0	9.4	46	30.2	7.9	<0.1	0.2
AER22TS-2036	Till	7.75	28.5	5.53	1.13	4.94	0.77	4.64	0.93	2.77	0.41	2.62	0.38	1.3	24.5	11.5	74	32.9	9.3	0.3	0.3
AER22TS-2037	Till	8.62	33.8	6.32	1.34	6.03	0.86	5.32	1.05	3.11	0.45	2.85	0.45	1.2	26.9	11.8	76	38.5	10.7	0.1	0.3
AER22TS-2038	Till	8.83	33.2	6.23	1.31	6.07	0.89	5.01	1.09	3.28	0.46	3.04	0.46	2.3	27.5	14.5	76	42.8	12.2	0.2	0.3
AER22TS-2039	Till	6.12	22.8	4.37	1.05	3.96	0.56	3.31	0.67	2.00	0.28	1.83	0.27	0.5	26.4	10.6	77	46.2	9.1	0.3	0.4
AER22TS-2040	Till	6.96	27.2	4.97	1.07	4.52	0.65	3.71	0.75	2.35	0.32	2.19	0.34	0.4	22.1	10.1	77	38.0	7.6	0.3	0.4
AER22TS-2041	Pulp DUP	7.03	25.4	4.78	1.07	4.54	0.67	3.76	0.79	2.43	0.35	2.19	0.34	0.4	21.5	10.0	75	36.2	7.5	0.3	0.4
AER22TS-2042	Till	6.54	24.2	4.61	1.03	4.30	0.63	3.70	0.78	2.27	0.31	2.26	0.33	0.7	23.2	11.3	73	30.0	10.0	0.3	0.4
AER22TS-2043	Till	6.62	25.5	5.15	1.07	4.30	0.62	3.56	0.70	2.16	0.31	1.94	0.31	1.0	24.5	13.5	77	32.4	13.7	0.3	0.5
AER22TS-2044	Till	6.97	26.9	5.38	1.19	5.17	0.74	4.16	0.83	2.59	0.36	2.27	0.36	0.3	30.6	12.7	73	38.4	4.1	0.1	0.3
AER22TS-2045	Till	5.91	22.7	4.25	1.08	4.01	0.56	3.40	0.70	2.00	0.28	2.02	0.29	0.5	44.5	16.9	102	52.5	4.9	0.4	0.2
AER22TS-2046	Till	6.94	26.7	4.90	1.17	4.64	0.64	3.86	0.76	2.26	0.30	2.17	0.34	0.6	18.5	12.1	60	24.7	8.5	0.2	0.4
AER22TS-2047	Till	10.21	40.3	8.51	1.94	8.38	1.14	6.54	1.27	3.69	0.49	3.22	0.50	0.6	32.3	14.9	84	47.5	10.4	0.1	0.3
AER22TS-2048	Till	7.41	29.1	5.74	1.21	5.03	0.71	4.17	0.87	2.56	0.35	2.38	0.38	0.7	32.5	15.0	90	41.0	21.4	0.2	0.6
AER22TS-2049	Till	9.47	36.9	6.66	1.52	6.75	0.97	5.50	1.10	3.33	0.43	2.89	0.45	0.8	26.7	16.0	75	45.8	11.7	0.1	0.3
AER22TS-2050	Till	5.58	21.2	4.30	0.97	3.66	0.55	3.33	0.65	1.88	0.28	1.70	0.27	0.4	43.7	11.6	79	40.4	15.5	0.4	0.3



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**Project:** AER  
**Report Date:** February 07, 2023

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# CERTIFICATE OF ANALYSIS

**VAN22003127.1**

Method Analyte Unit MDL		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	TC000	TC005	TC005	TC006	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Bi	Ag	Au	Hg	Tl	Se	TOT/C	C/ORG	C/GRA	CO2	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As
		ppm	ppm	ppb	ppm	ppm	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm
		0.1	0.1	0.5	0.01	0.1	0.5	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
AER22TS-2021	Pulp DUP	0.2	0.1	2.9	0.05	0.2	<0.5	0.77	0.50	0.02	0.92	1.13	24.52	11.15	78.2	104	27.6	10.6	356	2.67	10.1
AER22TS-2022	Till	0.2	<0.1	0.9	0.04	0.3	<0.5	0.40	0.38	<0.02	<0.08	1.07	21.48	11.13	58.8	55	23.4	9.6	291	2.21	7.5
AER22TS-2023	Till	0.2	0.1	1.9	0.05	0.4	<0.5	0.78	0.62	0.02	0.50	1.41	27.62	16.89	78.4	120	59.6	23.1	1152	2.79	11.0
AER22TS-2024	Till	0.2	0.1	2.0	0.05	0.2	0.6	0.67	0.60	<0.02	0.20	1.18	22.13	10.75	51.1	100	27.2	8.8	335	2.59	9.6
AER22TS-2025	Till	0.2	0.1	3.1	0.08	0.2	0.6	0.81	0.77	<0.02	<0.08	0.94	41.93	11.95	89.2	110	54.1	12.5	423	3.23	12.1
AER22TS-2026	Till	0.2	<0.1	2.0	0.07	0.2	<0.5	0.90	0.87	0.02	<0.08	1.68	28.39	13.11	66.5	77	32.3	14.7	490	2.71	10.3
AER22TS-2027	Till	0.2	0.1	1.1	0.07	0.3	<0.5	0.88	0.64	<0.02	0.83	1.58	28.74	13.97	78.4	129	36.7	14.3	623	2.80	11.0
AER22TS-2028	Till	0.2	0.1	2.0	0.04	0.2	<0.5	0.79	0.52	<0.02	0.95	1.20	25.72	11.98	81.1	105	28.7	11.1	357	2.75	11.1
AER22TS-2029	Till	0.2	0.1	3.2	0.05	0.2	<0.5	0.78	0.51	<0.02	0.95	1.19	25.58	11.50	80.6	108	28.6	11.1	356	2.68	10.4
AER22TS-2030	Till	0.2	<0.1	1.0	0.05	0.2	<0.5	0.71	0.68	<0.02	<0.08	1.23	27.12	12.31	66.5	80	31.1	10.3	383	2.73	9.0
AER22TS-2031	Till	0.2	0.1	2.0	0.05	0.2	<0.5	1.06	0.59	<0.02	1.65	0.96	26.10	11.27	77.1	93	29.7	11.8	405	2.61	9.6
AER22TS-2032	Till	0.2	<0.1	1.9	0.07	0.2	0.5	0.94	0.92	<0.02	<0.08	0.98	26.60	10.88	68.9	78	29.4	10.3	342	2.68	9.8
AER22TS-2033	Till	0.2	<0.1	5.0	0.02	0.3	<0.5	1.49	0.28	0.02	4.37	0.73	29.64	10.01	63.3	61	29.3	13.1	595	2.38	5.6
AER22TS-2034	Rock Pulp	0.1	0.1	38.8	0.01	<0.1	<0.5	0.07	0.04	<0.02	0.14	11.83	156.72	264.83	209.7	108	77.3	49.8	279	1.61	9.3
AER22TS-2035	Till	0.1	0.1	2.1	0.04	0.2	<0.5	0.65	0.61	<0.02	0.09	0.68	18.70	9.40	46.3	100	29.3	8.9	427	2.41	7.6
AER22TS-2036	Till	0.2	<0.1	0.9	0.04	0.2	<0.5	1.16	0.62	<0.02	1.90	1.44	24.38	11.38	71.6	85	31.2	11.8	464	2.48	8.8
AER22TS-2037	Till	0.2	0.1	1.9	0.05	0.2	<0.5	0.87	0.83	0.02	<0.08	1.45	27.26	12.04	76.6	101	38.7	10.9	395	2.87	10.9
AER22TS-2038	Till	0.2	0.1	1.0	0.06	0.3	0.7	0.82	0.68	0.02	0.44	2.84	28.22	15.29	77.0	127	41.7	13.4	1125	3.77	12.4
AER22TS-2039	Till	0.1	0.2	2.0	0.06	0.3	<0.5	1.86	0.64	0.02	4.37	0.57	26.11	10.81	73.0	187	43.1	16.6	608	2.68	9.1
AER22TS-2040	Till	0.1	<0.1	0.9	0.05	0.2	<0.5	1.14	0.50	0.02	2.26	0.49	21.57	10.20	74.6	93	35.6	11.5	547	2.53	7.5
AER22TS-2041	Pulp DUP	0.1	<0.1	0.9	0.04	0.2	<0.5	1.20	0.55	<0.02	2.30	0.45	20.88	9.78	71.0	88	34.2	10.9	531	2.43	7.1
AER22TS-2042	Till	0.2	0.1	2.1	0.04	0.2	<0.5	1.17	0.35	<0.02	2.93	0.72	22.37	11.07	69.8	111	28.5	10.7	509	2.37	9.6
AER22TS-2043	Till	0.2	0.1	2.1	0.06	0.3	<0.5	1.38	0.36	<0.02	3.66	0.98	23.26	12.99	71.2	118	30.7	12.0	550	2.50	13.2
AER22TS-2044	Till	0.2	<0.1	2.9	0.06	0.2	<0.5	0.19	0.17	<0.02	<0.08	0.33	31.67	13.09	74.1	49	39.0	11.1	259	2.59	4.1
AER22TS-2045	Till	0.3	0.2	4.9	0.05	0.2	<0.5	0.98	0.53	0.03	1.54	0.50	44.81	16.59	96.4	223	49.6	14.6	503	3.53	4.9
AER22TS-2046	Till	0.2	0.1	2.0	0.05	0.2	<0.5	1.31	0.21	<0.02	3.96	0.65	18.33	11.90	58.3	108	24.1	8.8	536	1.88	8.5
AER22TS-2047	Till	0.2	<0.1	3.9	0.05	0.2	<0.5	0.58	0.54	0.03	<0.08	0.59	32.53	14.33	80.9	20	45.4	11.8	670	3.12	10.2
AER22TS-2048	Till	0.2	<0.1	2.1	0.11	0.4	<0.5	0.50	0.46	0.03	<0.08	0.73	32.27	15.20	88.4	62	39.3	12.2	625	3.33	21.2
AER22TS-2049	Till	0.2	<0.1	2.1	0.07	0.2	<0.5	1.16	0.81	0.02	1.18	0.79	23.76	13.60	65.2	90	39.0	10.6	613	2.62	10.6
AER22TS-2050	Till	0.2	0.2	3.8	0.05	0.2	<0.5	0.42	0.33	<0.02	0.25	0.43	43.49	11.36	75.1	177	38.1	16.4	168	2.53	15.3



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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			
					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
AER22TS-2021	Pulp	DUP			0.9	1.8	5.6	44.2	0.20	0.34	0.18	33	0.97	0.070	17.7	20.7	0.63	199.1	0.008	9	1.13	0.012	0.16	<0.1
AER22TS-2022	Till				1.1	1.3	7.9	26.5	0.07	0.28	0.19	37	0.30	0.060	25.7	22.6	0.38	140.6	0.014	7	1.17	0.010	0.15	<0.1
AER22TS-2023	Till				0.9	1.5	7.5	34.6	0.50	0.43	0.20	42	0.69	0.073	24.9	24.7	0.57	217.8	0.015	9	1.25	0.009	0.19	<0.1
AER22TS-2024	Till				1.2	1.5	6.7	27.8	0.06	0.30	0.17	39	0.48	0.042	27.0	26.4	0.44	172.0	0.011	6	1.34	0.010	0.14	<0.1
AER22TS-2025	Till				1.0	2.3	4.3	59.8	0.09	0.49	0.16	45	0.63	0.070	22.2	31.7	0.61	286.5	0.010	4	1.61	0.020	0.12	<0.1
AER22TS-2026	Till				1.0	2.5	6.0	32.9	0.06	0.37	0.18	36	0.43	0.057	21.6	28.3	0.41	165.8	0.007	5	1.32	0.007	0.14	<0.1
AER22TS-2027	Till				0.9	1.1	6.2	44.0	0.29	0.45	0.22	42	1.05	0.073	19.9	24.5	0.57	299.1	0.008	7	1.35	0.009	0.16	<0.1
AER22TS-2028	Till				0.9	1.9	5.8	45.3	0.21	0.36	0.18	34	0.99	0.070	18.6	21.3	0.64	206.2	0.008	9	1.17	0.012	0.16	<0.1
AER22TS-2029	Till				0.9	1.8	5.6	45.5	0.20	0.36	0.19	34	0.97	0.071	18.6	21.4	0.63	206.6	0.009	9	1.17	0.012	0.16	<0.1
AER22TS-2030	Till				1.0	1.9	7.3	27.6	0.08	0.35	0.20	43	0.41	0.057	23.9	31.9	0.47	155.8	0.011	5	1.60	0.008	0.19	<0.1
AER22TS-2031	Till				0.9	1.8	6.1	48.0	0.25	0.35	0.17	37	1.45	0.071	19.6	25.1	0.78	258.0	0.011	7	1.26	0.009	0.18	<0.1
AER22TS-2032	Till				0.9	1.7	5.4	37.6	0.09	0.36	0.16	39	0.46	0.063	21.7	27.4	0.43	193.1	0.011	4	1.37	0.009	0.13	<0.1
AER22TS-2033	Till				1.1	2.5	8.0	33.9	0.26	0.27	0.16	44	2.75	0.070	25.6	35.3	1.49	164.2	0.054	8	1.31	0.015	0.32	<0.1
AER22TS-2034	Rock	Pulp			0.4	38.5	2.9	32.6	0.47	0.17	0.14	24	0.58	0.053	25.0	32.1	0.48	60.4	0.074	2	0.82	0.095	0.12	<0.1
AER22TS-2035	Till				1.0	1.6	6.2	32.5	0.05	0.20	0.14	32	0.38	0.056	23.3	22.4	0.44	176.7	0.009	5	1.22	0.009	0.13	<0.1
AER22TS-2036	Till				0.9	1.8	6.5	45.5	0.26	0.35	0.17	39	1.76	0.069	20.3	28.1	0.79	212.3	0.012	8	1.29	0.010	0.18	<0.1
AER22TS-2037	Till				0.9	2.0	6.1	32.1	0.10	0.40	0.19	42	0.45	0.072	22.8	30.2	0.45	204.1	0.010	6	1.41	0.011	0.15	<0.1
AER22TS-2038	Till				1.2	1.3	7.3	43.0	0.24	0.53	0.24	44	0.90	0.073	22.7	23.9	0.43	220.8	0.006	10	1.24	0.011	0.17	<0.1
AER22TS-2039	Till				0.7	1.6	4.9	69.4	0.34	0.49	0.14	46	4.05	0.076	16.4	38.2	1.06	231.4	0.020	2	1.81	0.009	0.12	<0.1
AER22TS-2040	Till				0.7	14.2	5.4	52.2	0.25	0.45	0.13	41	2.40	0.084	18.4	31.4	0.85	189.0	0.018	2	1.63	0.009	0.12	<0.1
AER22TS-2041	Pulp	DUP			0.7	1.9	5.2	52.5	0.24	0.42	0.13	40	2.33	0.084	17.6	30.7	0.82	178.2	0.019	1	1.54	0.009	0.11	<0.1
AER22TS-2042	Till				0.9	2.5	5.4	72.4	0.27	0.43	0.16	35	2.78	0.070	17.9	27.1	0.89	302.0	0.018	2	1.69	0.010	0.15	<0.1
AER22TS-2043	Till				0.9	1.9	5.6	68.7	0.27	0.51	0.18	36	3.53	0.079	17.4	27.6	0.88	283.7	0.018	2	1.65	0.010	0.13	<0.1
AER22TS-2044	Till				1.0	3.7	6.0	33.5	0.10	0.27	0.23	37	0.59	0.085	19.0	31.8	0.73	158.8	0.010	<1	1.91	0.007	0.12	<0.1
AER22TS-2045	Till				1.0	4.7	5.5	70.1	0.39	0.25	0.32	52	2.65	0.074	17.4	40.6	1.12	283.4	0.013	2	2.21	0.009	0.23	<0.1
AER22TS-2046	Till				1.0	5.0	5.4	125.7	0.22	0.45	0.15	27	3.42	0.087	17.9	21.0	0.87	529.9	0.020	1	1.29	0.017	0.11	<0.1
AER22TS-2047	Till				1.4	3.3	7.7	31.8	0.13	0.41	0.23	49	0.66	0.076	27.1	41.9	0.75	264.7	0.013	2	2.28	0.009	0.18	<0.1
AER22TS-2048	Till				1.0	2.6	6.9	23.2	0.15	0.74	0.23	46	0.64	0.087	21.5	34.1	0.72	191.3	0.020	1	1.96	0.008	0.15	<0.1
AER22TS-2049	Till				0.8	1.4	6.3	35.4	0.12	0.32	0.19	34	1.23	0.069	23.5	25.8	0.66	234.9	0.005	2	1.51	0.008	0.12	<0.1
AER22TS-2050	Till				0.6	3.6	4.9	24.7	0.44	0.44	0.21	33	0.87	0.073	16.6	30.6	0.63	212.6	0.008	1	1.71	0.008	0.14	<0.1



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# CERTIFICATE OF ANALYSIS

**VAN22003127.1**

Method Analyte Unit MDL		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		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
AER22TS-2021	Pulp DUP	4.6	0.22	<0.02	48	0.4	0.06	3.7	1.36	<0.1	0.18	0.11	16.6	0.5	<0.05	9.8	14.00	37.4	0.05	<1	0.7
AER22TS-2022	Till	4.3	0.29	<0.02	52	0.4	0.05	3.9	1.48	<0.1	0.22	0.17	15.5	0.6	<0.05	12.4	16.81	52.5	0.03	<1	0.8
AER22TS-2023	Till	4.9	0.39	<0.02	49	0.5	0.05	4.2	1.49	<0.1	0.23	0.17	20.4	0.6	<0.05	13.2	17.11	61.6	0.03	<1	0.9
AER22TS-2024	Till	4.5	0.25	<0.02	51	0.7	0.04	4.2	1.28	<0.1	0.17	0.21	15.4	0.6	<0.05	10.2	22.61	50.1	0.03	<1	1.0
AER22TS-2025	Till	6.7	0.19	<0.02	78	0.8	0.05	5.3	1.40	<0.1	0.21	0.18	11.1	0.5	<0.05	11.1	25.98	42.1	0.04	<1	0.9
AER22TS-2026	Till	5.7	0.28	<0.02	86	0.7	0.05	4.3	1.55	<0.1	0.16	0.20	14.8	0.5	<0.05	9.1	18.60	47.2	0.03	<1	0.8
AER22TS-2027	Till	5.2	0.28	<0.02	58	0.5	0.07	4.3	1.59	<0.1	0.18	0.11	19.1	0.5	<0.05	9.6	15.38	43.7	0.03	1	0.8
AER22TS-2028	Till	4.8	0.24	<0.02	54	0.5	0.05	3.8	1.47	<0.1	0.18	0.09	16.3	0.5	<0.05	9.4	13.82	40.2	0.03	<1	0.7
AER22TS-2029	Till	4.7	0.23	<0.02	52	0.5	0.05	3.8	1.48	<0.1	0.20	0.08	16.8	0.5	<0.05	10.1	13.51	39.4	0.03	<1	0.7
AER22TS-2030	Till	5.9	0.27	<0.02	49	0.6	0.05	5.0	1.47	<0.1	0.17	0.20	20.7	0.6	<0.05	10.3	15.54	51.4	0.03	<1	1.0
AER22TS-2031	Till	5.0	0.24	<0.02	57	0.5	0.05	4.2	1.42	<0.1	0.22	0.13	19.3	0.5	<0.05	11.7	13.77	41.6	0.03	<1	0.7
AER22TS-2032	Till	5.9	0.22	<0.02	78	0.6	0.04	4.4	1.47	<0.1	0.13	0.22	15.2	0.5	<0.05	7.6	19.01	44.8	0.03	<1	0.7
AER22TS-2033	Till	4.9	0.29	<0.02	20	0.4	0.03	4.5	1.28	<0.1	0.29	0.17	26.5	0.6	<0.05	16.3	12.65	58.5	0.03	<1	0.6
AER22TS-2034	Rock Pulp	3.0	0.08	0.04	17	0.2	<0.02	2.6	1.16	<0.1	0.18	0.38	6.8	2.3	<0.05	6.3	5.44	43.1	0.03	<1	0.2
AER22TS-2035	Till	4.5	0.20	<0.02	54	0.4	0.03	3.8	1.02	<0.1	0.13	0.19	16.7	0.4	<0.05	6.9	17.49	43.0	0.02	<1	0.6
AER22TS-2036	Till	4.7	0.26	<0.02	39	0.5	0.05	4.2	1.44	<0.1	0.21	0.14	18.5	0.5	<0.05	11.4	13.40	43.1	0.03	<1	0.7
AER22TS-2037	Till	5.6	0.24	<0.02	60	0.6	0.06	4.6	1.57	<0.1	0.18	0.19	15.5	0.5	<0.05	10.3	19.34	46.0	0.03	<1	0.9
AER22TS-2038	Till	6.0	0.38	<0.02	63	0.8	0.07	4.0	1.72	<0.1	0.17	0.10	17.3	0.6	<0.05	9.7	17.67	49.2	0.03	<1	1.0
AER22TS-2039	Till	5.7	0.31	<0.02	61	0.4	0.03	5.6	1.41	<0.1	0.20	0.17	12.2	0.5	<0.05	8.2	9.99	33.6	0.03	<1	0.6
AER22TS-2040	Till	5.0	0.21	<0.02	51	0.4	0.04	5.1	1.37	<0.1	0.26	0.13	11.8	0.5	<0.05	9.0	10.25	38.2	0.03	<1	0.6
AER22TS-2041	Pulp DUP	4.8	0.19	<0.02	53	0.4	0.03	4.9	1.26	<0.1	0.25	0.15	11.2	0.5	<0.05	8.7	9.89	37.4	0.02	<1	0.6
AER22TS-2042	Till	4.9	0.25	<0.02	58	0.4	0.04	5.1	1.48	<0.1	0.27	0.10	14.9	0.6	<0.05	10.6	9.76	37.0	0.03	<1	0.6
AER22TS-2043	Till	4.9	0.30	<0.02	77	0.4	0.04	5.1	1.41	<0.1	0.27	0.09	13.0	0.6	<0.05	10.1	10.21	36.2	0.03	<1	0.6
AER22TS-2044	Till	6.5	0.21	<0.02	58	0.3	0.02	5.8	1.57	<0.1	0.17	0.04	14.2	1.0	<0.05	6.4	12.68	42.6	0.03	<1	0.7
AER22TS-2045	Till	7.3	0.25	<0.02	51	0.3	0.07	6.9	2.61	<0.1	0.24	<0.02	21.7	0.6	<0.05	7.8	10.35	40.0	0.04	<1	0.7
AER22TS-2046	Till	3.6	0.23	<0.02	54	0.3	0.04	3.8	1.12	<0.1	0.24	0.06	10.6	0.5	<0.05	8.9	10.20	37.2	0.02	<1	0.5
AER22TS-2047	Till	8.3	0.25	<0.02	61	0.6	0.05	6.9	1.68	<0.1	0.21	0.12	16.3	0.7	<0.05	9.6	23.98	50.3	0.04	<1	1.0
AER22TS-2048	Till	6.7	0.41	<0.02	113	0.4	0.05	6.4	1.77	<0.1	0.26	0.21	13.7	0.6	<0.05	11.2	14.66	43.1	0.03	<1	0.8
AER22TS-2049	Till	5.8	0.19	<0.02	73	0.4	0.04	4.6	1.16	<0.1	0.12	0.15	11.8	0.6	<0.05	6.1	21.23	40.4	0.03	<1	0.9
AER22TS-2050	Till	5.8	0.14	<0.02	45	0.2	0.04	5.5	1.65	<0.1	0.23	0.06	16.3	0.8	<0.05	5.8	8.84	35.3	0.03	<1	0.7



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	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Li	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	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
AER22TS-2021	Pulp DUP	13.7	4.58	17.48	3.63	0.75	3.31	0.44	2.45	0.43	1.19	0.15	0.97	0.13	<10	<2
AER22TS-2022	Till	11.6	6.55	24.93	4.91	0.91	4.33	0.57	3.14	0.56	1.52	0.19	1.24	0.16	<10	<2
AER22TS-2023	Till	14.1	6.36	24.49	4.85	0.92	4.26	0.55	3.16	0.56	1.54	0.19	1.29	0.18	<10	<2
AER22TS-2024	Till	11.9	7.29	28.56	5.83	1.13	5.30	0.69	3.95	0.72	1.97	0.25	1.63	0.22	<10	<2
AER22TS-2025	Till	16.7	6.19	26.02	5.81	1.47	5.89	0.80	4.68	0.87	2.41	0.31	2.02	0.29	<10	<2
AER22TS-2026	Till	10.6	6.00	24.09	5.14	1.13	4.74	0.64	3.61	0.64	1.75	0.22	1.43	0.19	<10	<2
AER22TS-2027	Till	15.4	5.23	20.15	4.19	0.88	3.87	0.52	2.92	0.52	1.43	0.18	1.16	0.16	<10	<2
AER22TS-2028	Till	13.8	4.97	19.34	3.97	0.82	3.56	0.47	2.68	0.48	1.29	0.16	1.06	0.14	<10	<2
AER22TS-2029	Till	13.8	4.84	18.95	3.88	0.81	3.49	0.46	2.64	0.46	1.27	0.16	1.03	0.14	<10	<2
AER22TS-2030	Till	14.1	6.43	24.52	5.05	0.98	4.35	0.58	3.29	0.56	1.47	0.18	1.15	0.14	<10	<2
AER22TS-2031	Till	15.1	5.07	19.69	3.99	0.80	3.52	0.47	2.63	0.47	1.27	0.16	1.04	0.14	<10	<2
AER22TS-2032	Till	12.9	6.40	25.93	5.70	1.25	5.22	0.69	3.94	0.70	1.91	0.25	1.60	0.22	<10	<2
AER22TS-2033	Till	16.0	6.47	23.86	4.40	0.71	3.58	0.46	2.50	0.43	1.15	0.15	0.96	0.13	<10	<2
AER22TS-2034	Rock Pulp	8.2	5.12	17.50	2.59	0.57	1.76	0.20	1.11	0.19	0.53	0.07	0.46	0.06	45	25
AER22TS-2035	Till	14.9	5.98	23.44	4.83	0.96	4.43	0.56	3.14	0.56	1.49	0.18	1.18	0.16	<10	<2
AER22TS-2036	Till	14.9	5.14	20.01	4.02	0.77	3.49	0.46	2.60	0.46	1.23	0.16	0.99	0.13	<10	<2
AER22TS-2037	Till	13.9	6.02	23.67	4.89	1.01	4.49	0.59	3.44	0.62	1.69	0.22	1.38	0.19	<10	<2
AER22TS-2038	Till	14.3	5.96	23.55	4.83	0.99	4.46	0.59	3.42	0.61	1.69	0.22	1.42	0.20	<10	<2
AER22TS-2039	Till	15.1	3.88	15.73	3.18	0.66	2.80	0.36	1.98	0.34	0.89	0.11	0.71	0.09	<10	<2
AER22TS-2040	Till	14.2	4.54	17.73	3.50	0.71	3.01	0.38	2.06	0.35	0.89	0.11	0.70	0.09	<10	<2
AER22TS-2041	Pulp DUP	13.5	4.30	17.24	3.39	0.68	2.92	0.37	2.02	0.34	0.87	0.11	0.68	0.09	<10	<2
AER22TS-2042	Till	15.4	4.20	16.95	3.37	0.65	2.89	0.36	1.99	0.33	0.87	0.11	0.69	0.09	<10	<2
AER22TS-2043	Till	16.2	4.32	16.74	3.40	0.67	2.99	0.38	2.11	0.35	0.93	0.11	0.72	0.09	<10	<2
AER22TS-2044	Till	12.7	5.13	19.82	4.23	0.87	3.72	0.48	2.69	0.46	1.20	0.15	0.96	0.12	<10	<2
AER22TS-2045	Till	23.3	4.52	17.72	3.61	0.81	3.18	0.40	2.22	0.37	0.94	0.11	0.72	0.09	<10	<2
AER22TS-2046	Till	13.0	4.56	17.31	3.45	0.64	3.00	0.38	2.11	0.35	0.93	0.11	0.73	0.10	<10	<2
AER22TS-2047	Till	17.1	8.00	33.08	7.36	1.69	6.85	0.91	5.04	0.88	2.31	0.29	1.82	0.24	<10	<2
AER22TS-2048	Till	17.7	5.48	21.67	4.50	0.94	4.07	0.51	2.90	0.51	1.35	0.17	1.09	0.15	<10	<2
AER22TS-2049	Till	13.8	6.02	24.00	4.87	1.06	4.82	0.62	3.48	0.61	1.64	0.20	1.21	0.17	<10	<2
AER22TS-2050	Till	15.7	3.96	16.03	3.28	0.66	2.85	0.35	1.93	0.31	0.79	0.09	0.58	0.08	<10	<2





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	Method Analyte Unit MDL	WGHT	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300
		Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI
		kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1
AER22TS-2051	Till	1.38	65.70	14.01	5.27	1.37	0.89	0.84	2.22	0.68	0.15	0.05	0.012	765	34	124	257	24	12	14	8.6
AER22TS-2052	Till	1.42	61.47	13.15	5.19	1.86	3.72	0.88	2.10	0.64	0.17	0.10	0.011	815	46	148	241	26	13	12	10.5
AER22TS-2053	Rock Pulp	0.06	71.90	12.16	3.96	1.70	3.31	3.45	1.43	0.38	0.12	0.06	0.014	467	83	401	153	11	19	9	1.3
AER22TS-2054	Till	1.59	63.53	14.24	5.57	1.59	1.28	1.12	2.15	0.65	0.18	0.12	0.012	913	50	153	256	42	15	14	9.3
AER22TS-2055	Till	1.85	63.54	14.26	5.55	1.59	1.30	1.14	2.17	0.66	0.17	0.13	0.011	904	57	155	242	42	12	14	9.2
AER22TS-2056	Till	1.82	62.67	14.61	5.53	1.91	1.49	1.37	2.04	0.62	0.19	0.06	0.011	889	36	175	239	27	14	14	9.2
AER22TS-2057	Till	1.97	60.35	13.06	4.76	1.97	4.85	1.64	2.25	0.61	0.20	0.09	0.010	973	33	209	227	22	14	11	10.0
AER22TS-2058	Till	1.42	67.03	13.36	4.94	1.24	0.86	0.72	2.33	0.68	0.16	0.04	0.012	763	29	117	281	27	18	13	8.4
AER22TS-2059	Till	1.25	62.96	13.03	5.14	1.81	2.72	0.69	2.09	0.67	0.17	0.06	0.012	789	38	128	270	26	17	12	10.4
AER22TS-2060	Till	1.70	58.80	14.00	5.13	2.20	4.44	1.54	2.19	0.65	0.18	0.07	0.010	998	31	230	200	21	13	12	10.5
AER22TS-2062	Till	1.84	60.36	12.94	4.66	2.09	4.63	1.22	2.22	0.62	0.19	0.08	0.011	975	33	176	212	21	13	11	10.7



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	Method Analyte Unit MDL	LF300	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100
		Sum	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		%	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
AER22TS-2051	Till	99.92	786	4	12.2	5.1	15.6	6.6	11.9	88.3	2	123.6	1.0	11.4	3.1	127	1.4	251.5	24.7	34.2	68.7
AER22TS-2052	Till	99.90	786	5	15.8	4.5	14.5	5.6	10.9	78.1	1	144.7	0.8	10.0	2.6	123	1.3	220.9	25.6	31.7	65.1
AER22TS-2053	Rock Pulp	99.88	467	<1	47.7	2.0	12.0	3.7	16.0	36.0	6	379.6	0.4	4.0	0.8	56	<0.5	151.9	11.0	30.6	53.9
AER22TS-2054	Till	99.91	896	5	14.8	4.5	14.9	6.0	11.0	73.6	1	146.0	0.7	10.7	2.7	115	1.4	227.7	40.0	41.2	83.6
AER22TS-2055	Till	99.92	893	4	15.9	4.6	15.4	6.3	11.2	75.5	2	152.1	0.8	11.8	2.8	110	1.6	230.4	44.1	42.8	94.6
AER22TS-2056	Till	99.91	861	<1	9.8	3.8	15.2	6.0	10.2	68.4	2	167.7	0.8	12.3	3.2	104	1.8	233.6	28.2	35.9	65.1
AER22TS-2057	Till	99.92	989	<1	12.1	3.4	14.2	5.7	10.3	71.4	4	209.4	0.8	10.2	2.8	92	1.5	220.7	22.1	31.5	62.6
AER22TS-2058	Till	99.92	709	1	9.3	5.5	14.7	6.4	12.2	88.9	2	109.0	0.8	10.8	2.9	134	1.8	245.5	24.9	33.5	63.1
AER22TS-2059	Till	99.91	766	3	12.8	5.1	14.4	6.2	11.7	77.8	2	122.9	0.8	10.8	2.7	131	1.2	231.1	25.2	32.5	63.8
AER22TS-2060	Till	99.90	963	1	11.2	3.8	14.2	4.9	9.9	67.4	4	210.5	0.7	9.0	2.5	94	1.4	192.6	19.9	28.8	55.4
AER22TS-2062	Till	99.92	917	1	13.9	4.0	14.0	4.6	10.3	71.9	1	167.9	0.8	9.0	2.7	102	1.1	188.9	20.8	29.1	55.1



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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
AER22TS-2051	Till	7.99	29.7	5.75	1.18	5.08	0.79	4.43	0.92	2.61	0.37	2.48	0.39	1.7	29.9	14.1	77	34.6	11.0	<0.1	0.2
AER22TS-2052	Till	7.27	26.9	5.02	1.13	4.99	0.72	4.07	0.86	2.61	0.39	2.43	0.38	1.6	29.7	15.9	80	45.7	10.9	0.3	0.3
AER22TS-2053	Rock Pulp	6.57	24.5	3.93	0.98	2.80	0.34	1.94	0.39	1.16	0.15	1.02	0.14	11.9	158.5	265.9	209	81.5	9.4	0.5	0.2
AER22TS-2054	Till	9.78	37.2	7.39	1.58	7.57	1.10	6.53	1.32	3.75	0.53	3.19	0.54	1.0	33.6	14.6	77	53.9	10.7	<0.1	0.3
AER22TS-2055	Till	10.41	39.0	7.63	1.77	7.96	1.15	6.77	1.34	4.08	0.54	3.53	0.55	0.9	34.0	14.7	76	58.9	10.7	<0.1	0.3
AER22TS-2056	Till	8.55	34.0	6.62	1.53	6.22	0.90	5.06	1.03	2.93	0.42	2.74	0.41	0.6	29.9	12.6	73	34.3	12.2	<0.1	0.4
AER22TS-2057	Till	7.22	26.6	5.03	1.17	4.60	0.69	3.71	0.84	2.36	0.34	2.21	0.36	0.9	24.3	12.5	79	33.7	24.9	0.3	0.8
AER22TS-2058	Till	7.95	29.9	5.68	1.24	5.27	0.78	4.49	0.97	2.68	0.40	2.69	0.40	1.5	26.1	12.9	69	27.0	9.8	<0.1	0.3
AER22TS-2059	Till	7.66	28.6	5.27	1.07	5.03	0.73	4.22	0.86	2.70	0.37	2.51	0.40	1.5	28.8	14.7	77	35.8	10.3	0.2	0.3
AER22TS-2060	Till	6.45	23.4	4.52	0.99	4.24	0.60	3.66	0.78	2.17	0.31	2.00	0.30	0.9	29.0	12.0	82	34.0	9.1	0.3	0.4
AER22TS-2062	Till	6.57	23.9	4.51	1.00	4.03	0.60	3.59	0.71	2.15	0.31	1.98	0.31	0.7	23.5	14.1	81	35.3	11.3	0.4	0.4



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# CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	TC000	TC005	TC005	TC006	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Bi	Ag	Au	Hg	Tl	Se	TOT/C	C/ORG	C/GRA	CO2	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As
		ppm	ppm	ppb	ppm	ppm	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm
		0.1	0.1	0.5	0.01	0.1	0.5	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
AER22TS-2051	Till	0.2	<0.1	1.9	0.08	0.3	<0.5	0.70	0.66	0.02	<0.08	1.79	29.46	14.06	75.3	64	33.7	11.6	336	2.82	10.8
AER22TS-2052	Till	0.2	<0.1	2.1	0.06	0.3	<0.5	1.19	0.54	<0.02	2.33	1.81	30.07	15.50	80.7	102	43.5	16.0	724	2.72	11.0
AER22TS-2053	Rock Pulp	0.1	0.1	38.4	0.01	<0.1	<0.5	0.07	0.05	<0.02	0.12	12.18	160.32	262.88	212.1	111	80.2	50.1	283	1.64	9.5
AER22TS-2054	Till	0.2	0.2	1.8	0.07	0.3	<0.5	0.60	0.57	0.02	<0.08	1.09	32.93	14.51	75.6	170	51.1	14.9	809	3.04	10.5
AER22TS-2055	Till	0.2	0.2	1.9	0.07	0.3	<0.5	0.63	0.59	0.02	<0.08	1.08	33.47	14.85	75.9	178	56.9	15.3	962	3.07	10.9
AER22TS-2056	Till	0.2	<0.1	2.0	0.09	0.2	<0.5	0.32	0.29	<0.02	<0.08	0.77	30.63	12.83	75.6	67	35.3	9.5	414	3.07	13.0
AER22TS-2057	Till	0.2	0.1	2.6	0.07	0.5	<0.5	1.39	0.61	0.03	2.78	0.96	24.41	12.87	82.5	100	35.7	11.8	640	2.57	25.5
AER22TS-2058	Till	0.2	<0.1	2.2	0.10	0.3	<0.5	0.85	0.82	0.02	<0.08	1.78	26.71	12.95	74.7	84	28.6	8.7	269	2.49	10.1
AER22TS-2059	Till	0.2	0.1	1.6	0.06	0.3	<0.5	1.09	0.63	<0.02	1.66	1.71	28.78	14.99	81.8	145	36.8	13.0	461	2.65	11.0
AER22TS-2060	Till	0.2	0.1	2.0	0.05	0.3	<0.5	1.01	0.31	0.02	2.51	1.00	28.41	12.09	83.2	113	35.1	12.6	537	2.75	9.2
AER22TS-2062	Till	0.2	0.1	1.6	0.08	0.3	<0.5	1.52	0.69	<0.02	2.98	0.75	23.37	13.53	84.0	104	35.5	13.9	572	2.46	11.0



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# CERTIFICATE OF ANALYSIS

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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
		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
AER22TS-2051	Till	1.2	2.7	7.1	29.6	0.07	0.34	0.23	41	0.44	0.053	20.8	35.0	0.46	190.6	0.008	5	1.67	0.008	0.21	<0.1
AER22TS-2052	Till	0.9	1.9	6.6	51.4	0.28	0.44	0.22	40	2.31	0.067	19.0	30.2	0.75	266.1	0.008	6	1.50	0.011	0.17	<0.1
AER22TS-2053	Rock Pulp	0.4	38.3	3.0	33.1	0.50	0.18	0.14	25	0.60	0.053	24.3	32.2	0.49	58.0	0.076	1	0.84	0.097	0.12	<0.1
AER22TS-2054	Till	1.0	3.1	6.8	32.4	0.09	0.41	0.22	46	0.63	0.065	28.8	35.5	0.61	293.4	0.010	4	2.02	0.013	0.17	<0.1
AER22TS-2055	Till	1.0	2.5	7.0	32.8	0.09	0.52	0.23	47	0.64	0.065	29.2	35.1	0.61	299.5	0.011	4	2.01	0.013	0.17	<0.1
AER22TS-2056	Till	1.3	2.2	7.7	29.8	0.10	0.54	0.22	45	0.65	0.075	23.5	33.2	0.74	230.1	0.013	2	2.11	0.009	0.15	<0.1
AER22TS-2057	Till	0.8	2.8	5.7	47.2	0.32	1.08	0.18	37	2.95	0.081	17.1	27.7	0.86	238.6	0.023	2	1.61	0.008	0.14	<0.1
AER22TS-2058	Till	1.2	2.2	6.8	33.5	0.09	0.53	0.22	35	0.44	0.059	20.4	26.2	0.38	197.2	0.005	7	1.31	0.006	0.20	<0.1
AER22TS-2059	Till	0.9	2.0	7.3	48.6	0.22	0.49	0.22	39	1.79	0.066	19.1	25.6	0.71	290.9	0.005	8	1.39	0.011	0.18	<0.1
AER22TS-2060	Till	0.9	1.9	6.1	73.7	0.31	0.60	0.19	42	2.67	0.075	17.5	31.6	0.94	306.4	0.017	2	1.88	0.007	0.15	<0.1
AER22TS-2062	Till	0.8	1.9	6.0	52.8	0.36	0.64	0.18	37	2.92	0.076	17.4	27.7	0.93	318.4	0.011	2	1.63	0.008	0.15	<0.1



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# CERTIFICATE OF ANALYSIS

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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
		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
AER22TS-2051	Till	6.1	0.28	<0.02	85	0.5	0.05	5.1	1.51	<0.1	0.14	0.18	20.8	0.7	<0.05	8.1	13.52	44.3	0.04	<1	1.0
AER22TS-2052	Till	5.4	0.33	<0.02	59	0.4	0.06	4.7	1.71	<0.1	0.19	0.09	18.2	0.6	<0.05	9.8	14.59	43.6	0.03	<1	0.9
AER22TS-2053	Rock Pulp	3.0	0.08	0.04	17	0.2	0.02	2.7	1.15	<0.1	0.19	0.37	7.0	2.4	<0.05	6.7	5.50	43.7	0.04	<1	0.2
AER22TS-2054	Till	6.9	0.29	<0.02	76	0.5	0.05	6.1	1.74	<0.1	0.17	0.12	16.5	0.7	<0.05	9.2	30.01	62.3	0.04	<1	1.2
AER22TS-2055	Till	7.0	0.31	<0.02	69	0.6	0.04	6.0	1.86	<0.1	0.17	0.13	17.2	0.7	<0.05	9.3	30.32	69.9	0.03	<1	1.3
AER22TS-2056	Till	7.1	0.27	<0.02	96	0.5	0.03	6.5	1.51	<0.1	0.25	0.06	15.3	0.7	<0.05	10.4	16.50	46.3	0.04	<1	1.0
AER22TS-2057	Till	5.1	0.44	<0.02	81	0.3	0.03	5.0	1.16	<0.1	0.28	0.22	12.3	0.5	<0.05	11.8	10.77	35.1	0.04	<1	0.7
AER22TS-2058	Till	5.1	0.23	<0.02	86	0.4	0.06	4.1	1.29	<0.1	0.12	0.23	20.0	0.6	<0.05	7.6	15.53	40.6	0.04	1	0.8
AER22TS-2059	Till	5.1	0.25	<0.02	66	0.3	0.06	4.3	1.39	<0.1	0.17	0.09	16.3	1.1	<0.05	9.4	15.18	40.0	0.04	<1	0.8
AER22TS-2060	Till	5.8	0.23	<0.02	51	0.3	0.04	5.7	1.50	<0.1	0.28	0.07	13.4	0.6	<0.05	11.1	10.32	36.6	0.03	<1	0.7
AER22TS-2062	Till	5.1	0.24	<0.02	52	0.3	0.04	4.9	1.29	<0.1	0.23	0.12	14.4	0.6	<0.05	9.7	11.14	36.7	0.03	<1	0.7



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	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Li	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	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
AER22TS-2051	Till	14.3	5.58	21.58	4.58	0.94	4.05	0.54	3.08	0.51	1.35	0.17	1.05	0.13	<10	<2
AER22TS-2052	Till	15.0	5.00	19.86	4.12	0.84	3.77	0.49	2.84	0.50	1.33	0.17	1.08	0.14	<10	<2
AER22TS-2053	Rock Pulp	8.6	5.13	17.72	2.62	0.57	1.76	0.20	1.14	0.19	0.54	0.07	0.46	0.06	41	26
AER22TS-2054	Till	18.2	7.77	30.64	6.33	1.39	6.56	0.87	5.14	0.93	2.55	0.31	2.01	0.28	<10	<2
AER22TS-2055	Till	18.3	7.93	31.72	6.56	1.45	6.78	0.90	5.37	0.98	2.67	0.34	2.11	0.30	<10	<2
AER22TS-2056	Till	15.4	6.54	25.61	5.64	1.21	5.01	0.67	3.76	0.64	1.69	0.21	1.33	0.17	<10	<2
AER22TS-2057	Till	15.9	4.28	16.35	3.34	0.67	2.92	0.40	2.12	0.39	0.99	0.13	0.79	0.11	<10	<2
AER22TS-2058	Till	12.6	5.45	21.54	4.48	0.91	4.12	0.57	3.08	0.56	1.45	0.19	1.13	0.16	<10	<2
AER22TS-2059	Till	14.0	5.18	20.38	4.25	0.87	3.85	0.53	2.89	0.52	1.39	0.18	1.10	0.16	<10	<2
AER22TS-2060	Till	16.0	4.38	16.55	3.38	0.67	2.89	0.39	2.08	0.37	0.95	0.12	0.75	0.11	<10	<2
AER22TS-2062	Till	13.1	4.42	17.09	3.50	0.71	3.09	0.41	2.21	0.39	1.01	0.13	0.78	0.11	<10	<2



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## QUALITY CONTROL REPORT

**VAN22003127.1**

	Method	WGHT	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300
	Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI
	Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1
AER22TS-2045	Till	2.14	57.05	14.36	6.26	2.46	4.23	1.33	2.66	0.68	0.19	0.07	0.011	1035	51	192	125	19	11	14	10.4
Pulp Duplicates																					
AER22TS-2022	Till	1.57	72.76	11.36	3.94	1.06	0.83	0.96	1.97	0.64	0.15	0.04	0.007	592	<20	126	388	29	13	10	6.1
REP AER22TS-2022	QC																				
AER22TS-2032	Till	1.78	66.76	12.99	5.01	1.25	1.07	1.12	1.88	0.73	0.17	0.05	0.012	745	30	157	301	32	12	13	8.7
REP AER22TS-2032	QC																				
AER22TS-2037	Till	1.48	65.73	13.40	5.47	1.33	0.99	0.94	1.99	0.72	0.19	0.06	0.012	740	39	135	313	34	12	13	8.9
REP AER22TS-2037	QC																				
AER22TS-2039	Till	1.74	56.67	12.97	4.71	2.28	6.66	1.55	1.99	0.62	0.19	0.08	0.013	874	40	224	206	20	12	11	12.0
REP AER22TS-2039	QC		56.75	12.93	4.71	2.27	6.63	1.56	1.99	0.62	0.19	0.08	0.012	870	38	224	203	19	9	12	12.0
AER22TS-2040	Till	2.14	62.37	12.90	4.42	1.86	4.17	1.77	2.06	0.67	0.22	0.08	0.014	886	36	232	298	22	12	11	9.2
REP AER22TS-2040	QC																				
AER22TS-2052	Till	1.42	61.47	13.15	5.19	1.86	3.72	0.88	2.10	0.64	0.17	0.10	0.011	815	46	148	241	26	13	12	10.5
REP AER22TS-2052	QC																				
Reference Materials																					
STD BVGE001	Standard																				
STD BVGE001	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD DS11	Standard																				
STD DS11	Standard																				
STD DS11	Standard																				
STD GGC-09	Standard																				
STD GGC-09	Standard																				
STD GGC-09	Standard																				





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## QUALITY CONTROL REPORT

**VAN22003127.1**

	Method Analyte Unit MDL	LF300	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100
		Sum	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		%	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
AER22TS-2045	Till	99.90	1061	4	15.2	5.2	16.1	3.2	9.3	92.0	2	193.5	0.8	8.5	2.5	123	1.7	116.4	19.2	25.6	51.7
Pulp Duplicates																					
AER22TS-2022	Till	99.94	584	1	9.7	3.6	12.3	9.2	11.9	66.5	1	128.2	0.7	11.4	2.7	98	1.0	349.3	30.2	36.9	71.1
REP AER22TS-2022	QC																				
AER22TS-2032	Till	99.92	732	4	11.1	3.5	13.3	7.8	10.4	67.8	1	153.4	0.7	9.1	2.5	126	1.4	305.0	30.5	34.3	67.1
REP AER22TS-2032	QC																				
AER22TS-2037	Till	99.92	709	1	12.2	4.5	13.6	7.3	11.1	70.7	2	133.1	0.7	10.3	2.7	119	1.2	283.1	31.7	36.9	67.2
REP AER22TS-2037	QC																				
AER22TS-2039	Till	99.90	858	3	16.5	2.9	13.5	4.9	9.0	63.0	<1	216.3	0.6	8.0	2.5	94	1.1	182.1	19.0	27.3	50.7
REP AER22TS-2039	QC	99.91																			
AER22TS-2040	Till	99.91	848	1	11.5	2.9	12.4	7.3	9.7	62.6	<1	224.8	0.7	9.0	2.5	99	1.1	277.5	21.6	31.4	60.0
REP AER22TS-2040	QC		859	1	11.5	3.1	12.4	6.7	9.6	60.1	<1	217.5	0.7	8.8	2.7	88	1.1	250.9	20.7	29.6	60.7
AER22TS-2052	Till	99.90	786	5	15.8	4.5	14.5	5.6	10.9	78.1	1	144.7	0.8	10.0	2.6	123	1.3	220.9	25.6	31.7	65.1
REP AER22TS-2052	QC																				
Reference Materials																					
STD BVGE001	Standard																				
STD BVGE001	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD DS11	Standard																				
STD DS11	Standard																				
STD DS11	Standard																				
STD GGC-09	Standard																				
STD GGC-09	Standard																				
STD GGC-09	Standard																				



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## QUALITY CONTROL REPORT

**VAN22003127.1**

	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
AER22TS-2045	Till	5.91	22.7	4.25	1.08	4.01	0.56	3.40	0.70	2.00	0.28	2.02	0.29	0.5	44.5	16.9	102	52.5	4.9	0.4	0.2
Pulp Duplicates																					
AER22TS-2022	Till	8.49	32.0	6.11	1.18	5.82	0.82	5.02	1.00	3.15	0.46	2.94	0.43	0.9	19.4	10.1	53	21.5	6.9	<0.1	0.2
REP AER22TS-2022	QC																				
AER22TS-2032	Till	8.68	34.0	7.26	1.58	6.75	0.99	5.68	1.16	3.54	0.49	3.19	0.51	0.8	26.2	11.0	72	30.2	10.0	<0.1	0.2
REP AER22TS-2032	QC																				
AER22TS-2037	Till	8.62	33.8	6.32	1.34	6.03	0.86	5.32	1.05	3.11	0.45	2.85	0.45	1.2	26.9	11.8	76	38.5	10.7	0.1	0.3
REP AER22TS-2037	QC																				
AER22TS-2039	Till	6.12	22.8	4.37	1.05	3.96	0.56	3.31	0.67	2.00	0.28	1.83	0.27	0.5	26.4	10.6	77	46.2	9.1	0.3	0.4
REP AER22TS-2039	QC																				
AER22TS-2040	Till	6.96	27.2	4.97	1.07	4.52	0.65	3.71	0.75	2.35	0.32	2.19	0.34	0.4	22.1	10.1	77	38.0	7.6	0.3	0.4
REP AER22TS-2040	QC	6.82	25.8	5.07	1.08	4.50	0.63	3.61	0.75	2.20	0.31	2.16	0.33	0.4	21.8	10.1	77	37.0	7.5	0.3	0.4
AER22TS-2052	Till	7.27	26.9	5.02	1.13	4.99	0.72	4.07	0.86	2.61	0.39	2.43	0.38	1.6	29.7	15.9	80	45.7	10.9	0.3	0.3
REP AER22TS-2052	QC																				
Reference Materials																					
STD BVGEO01	Standard													9.8	4560.8	181.3	1810	166.4	125.6	6.1	2.5
STD BVGEO01	Standard													9.8	4475.5	182.5	1787	161.5	125.1	6.1	2.6
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD DS11	Standard																				
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STD DS11	Standard																				
STD GGC-09	Standard																				
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## QUALITY CONTROL REPORT

VAN22003127.1

	Method Analyte Unit MDL	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	TC000	TC005	TC005	TC006	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Bi	Ag	Au	Hg	Tl	Se	TOT/C	C/ORG	C/GRA	CO2	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As
		ppm	ppm	ppb	ppm	ppm	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm
		0.1	0.1	0.5	0.01	0.1	0.5	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
AER22TS-2045	Till	0.3	0.2	4.9	0.05	0.2	<0.5	0.98	0.53	0.03	1.54	0.50	44.81	16.59	96.4	223	49.6	14.6	503	3.53	4.9
Pulp Duplicates																					
AER22TS-2022	Till	0.2	<0.1	0.9	0.04	0.3	<0.5	0.40	0.38	<0.02	<0.08	1.07	21.48	11.13	58.8	55	23.4	9.6	291	2.21	7.5
REP AER22TS-2022	QC										<0.08										
AER22TS-2032	Till	0.2	<0.1	1.9	0.07	0.2	0.5	0.94	0.92	<0.02	<0.08	0.98	26.60	10.88	68.9	78	29.4	10.3	342	2.68	9.8
REP AER22TS-2032	QC							0.94													
AER22TS-2037	Till	0.2	0.1	1.9	0.05	0.2	<0.5	0.87	0.83	0.02	<0.08	1.45	27.26	12.04	76.6	101	38.7	10.9	395	2.87	10.9
REP AER22TS-2037	QC											1.46	28.40	12.28	78.1	110	39.1	11.1	401	2.90	11.2
AER22TS-2039	Till	0.1	0.2	2.0	0.06	0.3	<0.5	1.86	0.64	0.02	4.37	0.57	26.11	10.81	73.0	187	43.1	16.6	608	2.68	9.1
REP AER22TS-2039	QC										4.40										
AER22TS-2040	Till	0.1	<0.1	0.9	0.05	0.2	<0.5	1.14	0.50	0.02	2.26	0.49	21.57	10.20	74.6	93	35.6	11.5	547	2.53	7.5
REP AER22TS-2040	QC	0.1	<0.1	0.9	0.05	0.2	<0.5														
AER22TS-2052	Till	0.2	<0.1	2.1	0.06	0.3	<0.5	1.19	0.54	<0.02	2.33	1.81	30.07	15.50	80.7	102	43.5	16.0	724	2.72	11.0
REP AER22TS-2052	QC									<0.02											
Reference Materials																					
STD BVGE001	Standard	23.3	2.5	208.6	0.09	0.6	5.3														
STD BVGE001	Standard	24.2	2.5	208.3	0.10	0.6	5.3														
STD COO2	Standard										3.56										
STD COO2	Standard										3.36										
STD COO2	Standard										3.65										
STD COO2	Standard										3.58										
STD COO2	Standard										3.56										
STD COO2	Standard										3.70										
STD DS11	Standard											14.02	151.09	129.85	342.5	1708	78.9	14.0	1055	3.17	43.7
STD DS11	Standard											14.41	143.02	133.56	330.7	1914	79.1	14.7	1049	3.12	45.8
STD DS11	Standard											14.35	147.75	133.52	347.4	1650	79.8	13.8	1050	3.14	43.8
STD GGC-09	Standard									2.28											
STD GGC-09	Standard									2.40											
STD GGC-09	Standard									2.32											



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## QUALITY CONTROL REPORT

VAN22003127.1

	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		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
AER22TS-2045	Till	1.0	4.7	5.5	70.1	0.39	0.25	0.32	52	2.65	0.074	17.4	40.6	1.12	283.4	0.013	2	2.21	0.009	0.23	<0.1
Pulp Duplicates																					
AER22TS-2022	Till	1.1	1.3	7.9	26.5	0.07	0.28	0.19	37	0.30	0.060	25.7	22.6	0.38	140.6	0.014	7	1.17	0.010	0.15	<0.1
REP AER22TS-2022	QC																				
AER22TS-2032	Till	0.9	1.7	5.4	37.6	0.09	0.36	0.16	39	0.46	0.063	21.7	27.4	0.43	193.1	0.011	4	1.37	0.009	0.13	<0.1
REP AER22TS-2032	QC																				
AER22TS-2037	Till	0.9	2.0	6.1	32.1	0.10	0.40	0.19	42	0.45	0.072	22.8	30.2	0.45	204.1	0.010	6	1.41	0.011	0.15	<0.1
REP AER22TS-2037	QC	1.0	1.6	6.2	32.6	0.11	0.40	0.19	42	0.46	0.072	23.2	30.4	0.46	206.4	0.010	6	1.44	0.011	0.15	<0.1
AER22TS-2039	Till	0.7	1.6	4.9	69.4	0.34	0.49	0.14	46	4.05	0.076	16.4	38.2	1.06	231.4	0.020	2	1.81	0.009	0.12	<0.1
REP AER22TS-2039	QC																				
AER22TS-2040	Till	0.7	14.2	5.4	52.2	0.25	0.45	0.13	41	2.40	0.084	18.4	31.4	0.85	189.0	0.018	2	1.63	0.009	0.12	<0.1
REP AER22TS-2040	QC																				
AER22TS-2052	Till	0.9	1.9	6.6	51.4	0.28	0.44	0.22	40	2.31	0.067	19.0	30.2	0.75	266.1	0.008	6	1.50	0.011	0.17	<0.1
REP AER22TS-2052	QC																				
Reference Materials																					
STD BVGE001	Standard																				
STD BVGE001	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD DS11	Standard	2.4	68.0	7.0	67.7	2.24	6.71	10.87	50	1.09	0.073	18.3	58.9	0.85	386.0	0.096	7	1.17	0.080	0.41	2.9
STD DS11	Standard	2.6	70.1	8.0	66.4	2.64	7.78	12.39	48	1.07	0.077	18.8	58.5	0.85	382.1	0.089	7	1.16	0.076	0.40	3.0
STD DS11	Standard	2.4	68.2	7.4	67.3	2.33	8.29	11.16	49	1.07	0.070	17.9	59.3	0.85	369.4	0.094	7	1.16	0.080	0.41	3.0
STD GGC-09	Standard																				
STD GGC-09	Standard																				
STD GGC-09	Standard																				



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## QUALITY CONTROL REPORT

**VAN22003127.1**

	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		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
AER22TS-2045	Till	7.3	0.25	<0.02	51	0.3	0.07	6.9	2.61	<0.1	0.24	<0.02	21.7	0.6	<0.05	7.8	10.35	40.0	0.04	<1	0.7
Pulp Duplicates																					
AER22TS-2022	Till	4.3	0.29	<0.02	52	0.4	0.05	3.9	1.48	<0.1	0.22	0.17	15.5	0.6	<0.05	12.4	16.81	52.5	0.03	<1	0.8
REP AER22TS-2022	QC																				
AER22TS-2032	Till	5.9	0.22	<0.02	78	0.6	0.04	4.4	1.47	<0.1	0.13	0.22	15.2	0.5	<0.05	7.6	19.01	44.8	0.03	<1	0.7
REP AER22TS-2032	QC																				
AER22TS-2037	Till	5.6	0.24	<0.02	60	0.6	0.06	4.6	1.57	<0.1	0.18	0.19	15.5	0.5	<0.05	10.3	19.34	46.0	0.03	<1	0.9
REP AER22TS-2037	QC	5.7	0.25	<0.02	68	0.6	0.05	4.6	1.56	<0.1	0.18	0.19	15.9	0.6	<0.05	10.3	19.94	46.1	0.03	<1	0.9
AER22TS-2039	Till	5.7	0.31	<0.02	61	0.4	0.03	5.6	1.41	<0.1	0.20	0.17	12.2	0.5	<0.05	8.2	9.99	33.6	0.03	<1	0.6
REP AER22TS-2039	QC																				
AER22TS-2040	Till	5.0	0.21	<0.02	51	0.4	0.04	5.1	1.37	<0.1	0.26	0.13	11.8	0.5	<0.05	9.0	10.25	38.2	0.03	<1	0.6
REP AER22TS-2040	QC																				
AER22TS-2052	Till	5.4	0.33	<0.02	59	0.4	0.06	4.7	1.71	<0.1	0.19	0.09	18.2	0.6	<0.05	9.8	14.59	43.6	0.03	<1	0.9
REP AER22TS-2052	QC																				
Reference Materials																					
STD BVGE001	Standard																				
STD BVGE001	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD COO2	Standard																				
STD DS11	Standard	3.2	5.10	0.29	284	2.5	4.81	4.9	2.89	<0.1	0.08	1.73	33.9	1.7	<0.05	3.5	8.26	37.2	0.23	46	0.7
STD DS11	Standard	3.2	4.86	0.27	282	2.3	4.70	5.2	3.03	<0.1	0.07	1.70	33.2	2.0	<0.05	3.5	8.23	37.8	0.29	50	0.7
STD DS11	Standard	3.2	4.69	0.28	272	2.3	4.74	4.7	2.71	<0.1	0.08	1.83	33.3	1.8	<0.05	3.4	8.28	36.7	0.23	45	0.7
STD GGC-09	Standard																				
STD GGC-09	Standard																				
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## QUALITY CONTROL REPORT

**VAN22003127.1**

	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Li	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	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
AER22TS-2045	Till	23.3	4.52	17.72	3.61	0.81	3.18	0.40	2.22	0.37	0.94	0.11	0.72	0.09	<10	<2
Pulp Duplicates																
AER22TS-2022	Till	11.6	6.55	24.93	4.91	0.91	4.33	0.57	3.14	0.56	1.52	0.19	1.24	0.16	<10	<2
REP AER22TS-2022	QC															
AER22TS-2032	Till	12.9	6.40	25.93	5.70	1.25	5.22	0.69	3.94	0.70	1.91	0.25	1.60	0.22	<10	<2
REP AER22TS-2032	QC															
AER22TS-2037	Till	13.9	6.02	23.67	4.89	1.01	4.49	0.59	3.44	0.62	1.69	0.22	1.38	0.19	<10	<2
REP AER22TS-2037	QC	14.3	6.14	24.10	4.92	1.02	4.59	0.60	3.46	0.63	1.73	0.22	1.41	0.20	<10	<2
AER22TS-2039	Till	15.1	3.88	15.73	3.18	0.66	2.80	0.36	1.98	0.34	0.89	0.11	0.71	0.09	<10	<2
REP AER22TS-2039	QC															
AER22TS-2040	Till	14.2	4.54	17.73	3.50	0.71	3.01	0.38	2.06	0.35	0.89	0.11	0.70	0.09	<10	<2
REP AER22TS-2040	QC															
AER22TS-2052	Till	15.0	5.00	19.86	4.12	0.84	3.77	0.49	2.84	0.50	1.33	0.17	1.08	0.14	<10	<2
REP AER22TS-2052	QC															
Reference Materials																
STD BVGEO01	Standard															
STD BVGEO01	Standard															
STD COO2	Standard															
STD COO2	Standard															
STD COO2	Standard															
STD COO2	Standard															
STD COO2	Standard															
STD COO2	Standard															
STD DS11	Standard	22.0	3.77	14.70	2.64	0.50	2.15	0.27	1.58	0.28	0.79	0.11	0.74	0.10	103	171
STD DS11	Standard	25.9	4.34	15.49	2.79	0.56	2.37	0.31	1.79	0.32	0.84	0.11	0.80	0.12	97	185
STD DS11	Standard	21.6	4.08	14.65	2.64	0.49	2.11	0.29	1.57	0.29	0.81	0.12	0.75	0.12	97	166
STD GGC-09	Standard															
STD GGC-09	Standard															
STD GGC-09	Standard															



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## QUALITY CONTROL REPORT

**VAN22003127.1**

		WGHT	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300
		Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI
		kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1
STD GGC-09	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD OREAS279	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard		60.72	13.90	7.40	2.89	5.92	3.99	1.26	0.70	0.32	0.13	0.492	472	461	312	120	35	73	27	1.9
STD SO-19	Standard		60.80	13.91	7.35	2.89	5.93	3.97	1.26	0.69	0.32	0.13	0.491	469	454	313	118	35	68	26	1.9
STD SO-19	Standard		60.36	13.95	7.52	2.93	5.99	4.04	1.30	0.70	0.33	0.13	0.494	480	471	316	129	35	75	27	1.9
STD SO-19	Standard		60.85	13.81	7.40	2.90	5.91	4.01	1.26	0.70	0.30	0.13	0.481	457	450	310	119	34	73	26	1.9
STD GS910-4 Expected																					
STD OREAS279 Expected																					
STD GS311-1 Expected																					
STD GGC-09 Expected																					
STD COO2 Expected																					
STD SO-19 Expected			61.13	13.95	7.47	2.88	6	4.11	1.29	0.69	0.32	0.13	0.5	486	470	317.1	112	35.5	68.5	27	
STD BVGE001 Expected																					
STD DS11 Expected																					
STD OREAS262 Expected																					
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				



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## QUALITY CONTROL REPORT

**VAN22003127.1**

		LF300	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	
		Sum	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		%	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 GGC-09	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD OREAS279	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD SO-19	Standard		465	13	22.0	4.4	15.8	3.0	65.0	18.9	18	294.8	4.4	12.9	18.7	150	9.3	109.1	35.4	68.4	147.8
STD SO-19	Standard		463	21	22.6	4.4	15.6	2.9	63.0	19.1	17	298.5	4.4	12.5	18.3	153	9.1	107.1	34.8	71.0	152.2
STD SO-19	Standard		497	17	25.6	4.7	17.3	3.0	66.8	19.4	18	307.7	4.5	13.8	19.4	157	9.3	112.0	35.6	70.3	161.1
STD SO-19	Standard		486	21	23.5	4.5	16.4	3.0	67.4	19.7	20	313.6	4.5	13.2	18.7	160	10.0	115.9	36.2	70.3	160.7
STD SO-19	Standard	99.85																			
STD SO-19	Standard	99.86																			
STD SO-19	Standard	99.86																			
STD SO-19	Standard	99.86																			
STD GS910-4 Expected																					
STD OREAS279 Expected																					
STD GS311-1 Expected																					
STD GGC-09 Expected																					
STD COO2 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 BVGEO01 Expected																					
STD DS11 Expected																					
STD OREAS262 Expected																					
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				





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## QUALITY CONTROL REPORT

**VAN22003127.1**

		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 GGC-09	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD OREAS279	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard													0.6	119.8	56.2	165	69.8	37.7	0.6	2.9
STD OREAS262	Standard													0.6	115.0	55.1	154	64.2	35.7	0.6	3.3
STD OREAS262	Standard																				
STD SO-19	Standard	18.92	72.6	12.85	3.53	9.90	1.31	6.97	1.31	3.71	0.53	3.37	0.48								
STD SO-19	Standard	18.82	73.5	12.84	3.56	10.39	1.33	7.19	1.30	3.81	0.52	3.27	0.47								
STD SO-19	Standard	19.54	76.1	13.35	3.67	10.22	1.33	7.17	1.34	3.77	0.53	3.38	0.49								
STD SO-19	Standard	19.63	75.7	13.16	3.75	10.48	1.37	7.40	1.31	3.77	0.55	3.36	0.52								
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD GS910-4 Expected																					
STD OREAS279 Expected																					
STD GS311-1 Expected																					
STD GGC-09 Expected																					
STD COO2 Expected																					
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 BVGEO01 Expected														10.8	4415	187	1741	163	121	6.5	2.2
STD DS11 Expected																					
STD OREAS262 Expected														0.68	118	56	154	62	35.8	0.61	3.39
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				



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## QUALITY CONTROL REPORT

**VAN22003127.1**

		AQ200 Bi ppm 0.1	AQ200 Ag ppm 0.1	AQ200 Au ppb 0.5	AQ200 Hg ppm 0.01	AQ200 Tl ppm 0.1	AQ200 Se ppm 0.5	TC000 TOT/C % 0.02	TC005 C/ORG % 0.02	TC005 C/GRA % 0.02	TC006 CO2 % 0.08	AQ251 Mo ppm 0.01	AQ251 Cu ppm 0.01	AQ251 Pb ppm 0.01	AQ251 Zn ppm 0.1	AQ251 Ag ppb 2	AQ251 Ni ppm 0.1	AQ251 Co ppm 0.1	AQ251 Mn ppm 1	AQ251 Fe % 0.01	AQ251 As ppm 0.1
STD GGC-09	Standard								2.23												
STD GS311-1	Standard							1.01													
STD GS311-1	Standard							1.01													
STD GS910-4	Standard							2.61													
STD OREAS279	Standard							1.14													
STD OREAS262	Standard											0.59	115.29	52.41	151.0	466	62.7	27.2	539	3.24	35.7
STD OREAS262	Standard	0.9	0.5	60.1	0.18	0.5	0.7														
STD OREAS262	Standard	0.9	0.4	68.2	0.15	0.5	0.5														
STD OREAS262	Standard											0.62	114.26	54.66	158.0	455	65.3	27.5	546	3.28	36.2
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD GS910-4 Expected								2.65													
STD OREAS279 Expected								1.13													
STD GS311-1 Expected								1.02													
STD GGC-09 Expected									2.41												
STD COO2 Expected										3.43											
STD SO-19 Expected																					
STD BVGEO01 Expected		25.6	2.53	219	0.1	0.62	4.84														
STD DS11 Expected												14.6	149	138	345	1710	77.7	14.2	1055	3.1	42.8
STD OREAS262 Expected		1.03	0.45	65	0.17	0.47	0.4					0.68	118	56	154	450	62	26.9	530	3.284	35.8
BLK	Blank							<0.02													
BLK	Blank							<0.02													
BLK	Blank																				<0.08



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## QUALITY CONTROL REPORT

**VAN22003127.1**

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		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 GGC-09	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD OREAS279	Standard																				
STD OREAS262	Standard	1.1	48.2	8.4	33.9	0.59	3.11	0.89	22	2.90	0.038	16.4	42.6	1.17	236.7	0.003	4	1.31	0.069	0.31	0.1
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard	1.1	56.2	8.8	34.3	0.62	4.65	0.92	22	3.01	0.040	18.2	42.5	1.16	237.2	0.003	4	1.29	0.069	0.33	0.2
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD GS910-4 Expected																					
STD OREAS279 Expected																					
STD GS311-1 Expected																					
STD GGC-09 Expected																					
STD COO2 Expected																					
STD SO-19 Expected																					
STD BVGEO01 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																				



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## QUALITY CONTROL REPORT

**VAN22003127.1**

		AQ251 Sc ppm 0.1	AQ251 Ti ppm 0.02	AQ251 S % 0.02	AQ251 Hg ppb 5	AQ251 Se ppm 0.1	AQ251 Te ppm 0.02	AQ251 Ga ppm 0.1	AQ251 Cs ppm 0.02	AQ251 Ge ppm 0.1	AQ251 Hf ppm 0.02	AQ251 Nb ppm 0.02	AQ251 Rb ppm 0.1	AQ251 Sn ppm 0.1	AQ251 Ta ppm 0.05	AQ251 Zr ppm 0.1	AQ251 Y ppm 0.01	AQ251 Ce ppm 0.1	AQ251 In ppm 0.02	AQ251 Re ppb 1	AQ251 Be ppm 0.1
STD GGC-09	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD OREAS279	Standard																				
STD OREAS262	Standard	3.1	0.46	0.27	172	0.8	0.22	3.8	2.37	<0.1	0.29	<0.02	18.6	0.5	<0.05	12.2	10.97	33.7	0.03	<1	1.1
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard	3.1	0.44	0.26	170	0.6	0.24	3.8	2.56	<0.1	0.30	<0.02	19.5	0.5	<0.05	13.3	10.88	34.4	0.03	1	1.1
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD GS910-4 Expected																					
STD OREAS279 Expected																					
STD GS311-1 Expected																					
STD GGC-09 Expected																					
STD COO2 Expected																					
STD SO-19 Expected																					
STD BVGE001 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																				



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## QUALITY CONTROL REPORT

VAN22003127.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Li	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	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
STD GGC-09	Standard														
STD GS311-1	Standard														
STD GS311-1	Standard														
STD GS910-4	Standard														
STD OREAS279	Standard														
STD OREAS262	Standard	16.4	3.78	15.41	3.26	0.63	2.89	0.37	2.11	0.37	1.02	0.13	0.85	0.11	<10
STD OREAS262	Standard														
STD OREAS262	Standard														
STD OREAS262	Standard	16.5	4.24	15.77	3.33	0.63	2.89	0.39	2.13	0.39	1.04	0.14	0.85	0.12	<10
STD SO-19	Standard														
STD SO-19	Standard														
STD SO-19	Standard														
STD SO-19	Standard														
STD SO-19	Standard														
STD SO-19	Standard														
STD SO-19	Standard														
STD SO-19	Standard														
STD GS910-4 Expected															
STD OREAS279 Expected															
STD GS311-1 Expected															
STD GGC-09 Expected															
STD COO2 Expected															
STD SO-19 Expected															
STD BVGEO01 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
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	
BLK	Blank														
BLK	Blank														
BLK	Blank														



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## QUALITY CONTROL REPORT

VAN22003127.1

		WGHT	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300
		Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI
		kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank		<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0
BLK	Blank																				
BLK	Blank		<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				



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## QUALITY CONTROL REPORT

VAN22003127.1

		LF300 Sum %	LF100 Ba ppm	LF100 Be ppm	LF100 Co ppm	LF100 Cs ppm	LF100 Ga ppm	LF100 Hf ppm	LF100 Nb ppm	LF100 Rb ppm	LF100 Sn ppm	LF100 Sr ppm	LF100 Ta ppm	LF100 Th ppm	LF100 U ppm	LF100 V ppm	LF100 W ppm	LF100 Zr ppm	LF100 Y ppm	LF100 La ppm	LF100 Ce 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
BLK	Blank																				
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	<0.5	1.4	<0.1	<0.1	<0.1
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	<0.5	2.2	<0.1	<0.1	<0.1
BLK	Blank	<0.01																			
BLK	Blank																				
BLK	Blank	<0.01																			
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				



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## QUALITY CONTROL REPORT

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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
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
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	<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																				
BLK	Blank													<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1
BLK	Blank													<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1
BLK	Blank																				





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## VAN22003127.1

		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	TC000	TC005	TC005	TC006	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Bi	Ag	Au	Hg	Tl	Se	TOT/C	C/ORG	C/GRA	CO2	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As
		ppm	ppm	ppb	ppm	ppm	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm
		0.1	0.1	0.5	0.01	0.1	0.5	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
BLK	Blank	<0.02																			
BLK	Blank	<0.02																			
BLK	Blank	<0.08																			
BLK	Blank	<0.01   0.03   <0.01   <0.1   <2   <0.1   <0.1   <1   <0.01   <0.1																			
BLK	Blank	<0.01   <0.01   <0.01   <0.1   <2   <0.1   <0.1   <1   <0.01   <0.1																			
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.08																			
BLK	Blank																				
BLK	Blank	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5														
BLK	Blank	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5														
BLK	Blank	<0.01   <0.01   0.01   <0.1   <2   <0.1   <0.1   <1   <0.01   <0.1																			



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## QUALITY CONTROL REPORT

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		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		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
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	<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																				
BLK	Blank																				
BLK	Blank																				
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



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## QUALITY CONTROL REPORT

**VAN22003127.1**

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re
		ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb
		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
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
BLK	Blank	<0.1	<0.02	<0.02	6	<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
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
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



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## QUALITY CONTROL REPORT

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		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Li	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	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
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
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
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank														
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