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www.alsglobal.com/geochemistry

To: RED RIVER CREEK MINING GROUP LLC  
1712 CAREY AVENUE  
SUITE 100  
CHEYENNE WY 82001

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Total # Pages: 4 (A - G)  
Plus Appendix Pages  
Finalized Date: 2-MAR-2020  
This copy reported on  
6-MAR-2020  
Account: KEERRG

**CERTIFICATE RE20034549**

This report is for 107 Soil samples submitted to our lab in Reno, NV, USA on 13-FEB-2020.

The following have access to data associated with this certificate:

STEPHAN FINCH

LARRY MCMASTER

CHARLES REDDIEN

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
SND-ALS	Send samples to internal laboratory
DRY-22	Drying - Maximum Temp 60C
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both
LOG-24	Pulp Login - Rcd w/o Barcode

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Ag-AA45	Trace Ag - aqua regia/AAS	AAS
Rh-MS25	Rh 30g FA ICP-MS	ICP-MS
ME-MS61r	4A multi-element ICP-MS + REE	
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
Hg-MS42	Trace Hg by ICPMS	ICP-MS

The results of this assay were based solely upon the content of the sample submitted. Any decision to invest should be made only after the potential investment value of the claim 'or deposit has been determined based on the results of assays of multiple samples of geological materials collected by the prospective investor or by a qualified person selected by him/her and based on an evaluation of all engineering data which is available concerning any proposed project. Statement required by Nevada State Law NRS 519

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**

Saa Traxler, General Manager, North Vancouver



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# CERTIFICATE OF ANALYSIS RE20034549

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	Ag-AA45 Ag ppm 0.2	Rh-MS25 Rh ppm 0.001	ME-MS61r Ag ppm 0.01	ME-MS61r Al % 0.01	ME-MS61r As ppm 0.2	ME-MS61r Ba ppm 10	ME-MS61r Be ppm 0.05	ME-MS61r Bi ppm 0.01	ME-MS61r Ca % 0.01	ME-MS61r Cd ppm 0.02	ME-MS61r Ce ppm 0.01
155936		8.14	0.035	<0.005	<0.001	0.6	<0.001	0.50	5.75	60.1	690	1.56	0.11	10.30	0.13	48.1
155937		9.68	0.035	<0.005	0.001	0.6	<0.001	0.36	6.51	49.7	780	1.67	0.12	5.97	0.12	52.4
155938		12.22	0.022	<0.005	<0.001	0.3	<0.001	0.18	6.80	55.8	770	1.67	0.14	5.23	0.13	58.5
155939		9.20	0.032	<0.005	0.001	0.4	<0.001	0.19	7.12	65.6	760	1.79	0.15	3.64	0.08	59.8
155940		8.50	0.028	<0.005	<0.001	0.4	<0.001	0.26	7.02	58.2	740	1.76	0.15	4.17	0.08	55.1
155941		Not Recvd														
155942		Not Recvd														
155943		Not Recvd														
155944		Not Recvd														
155945		0.06	0.100	0.005	<0.001	<0.2	<0.001	0.08	5.30	6.5	420	2.46	0.21	4.56	0.11	24.4
155946		Not Recvd														
155947		4.28	0.038	<0.005	0.001	0.3	<0.001	0.34	8.11	54.1	630	2.57	0.22	3.93	0.13	60.1
155948		Not Recvd														
155949		Not Recvd														
155950		9.40	0.036	<0.005	0.001	<0.2	<0.001	0.14	8.28	59.7	710	2.30	0.21	4.52	0.12	62.8
154801		Not Recvd														
154802		3.70	0.028	0.005	0.002	0.2	<0.001	0.26	8.15	49.2	670	2.33	0.22	3.34	0.14	58.3
154803		5.16	0.022	<0.005	0.001	<0.2	<0.001	0.08	8.25	35.1	720	2.38	0.21	3.68	0.12	62.2
154804		3.80	0.026	<0.005	0.001	<0.2	<0.001	0.20	8.48	40.3	620	2.43	0.21	3.12	0.13	61.7
154805		7.50	0.020	<0.005	<0.001	<0.2	<0.001	0.11	8.10	36.8	660	2.39	0.20	2.79	0.13	62.3
154806		7.10	0.018	0.005	0.001	<0.2	<0.001	0.17	8.29	37.3	660	2.43	0.21	2.93	0.13	63.4
154807		6.94	0.015	<0.005	0.001	<0.2	<0.001	0.12	7.92	30.6	680	2.31	0.20	3.28	0.10	58.7
154808		6.72	0.014	<0.005	0.001	<0.2	<0.001	0.11	8.04	30.2	700	2.28	0.20	3.01	0.12	61.8
154809		7.90	0.015	<0.005	<0.001	<0.2	<0.001	0.11	7.57	26.1	670	2.14	0.20	3.10	0.11	54.2
154810		8.24	0.015	<0.005	<0.001	<0.2	<0.001	0.12	7.17	28.4	610	2.22	0.21	3.26	0.12	56.6
154811		7.62	0.015	<0.005	<0.001	<0.2	<0.001	0.13	7.12	25.9	590	2.06	0.19	3.43	0.13	55.7
154812		6.80	0.012	<0.005	<0.001	<0.2	<0.001	0.09	7.44	27.1	640	2.28	0.20	3.52	0.14	53.9
154813		7.92	0.013	<0.005	<0.001	<0.2	<0.001	0.12	7.14	27.1	570	2.12	0.20	3.64	0.12	57.8
154814		7.30	0.015	<0.005	0.001	<0.2	<0.001	0.11	6.98	27.0	550	2.18	0.21	4.09	0.13	55.0
154815		0.06	0.021	0.055	0.223	<0.2	0.001	0.04	3.83	3.2	40	<0.05	0.13	2.55	0.03	42.5
154816		7.94	0.014	<0.005	<0.001	0.2	<0.001	0.10	7.69	27.4	600	1.98	0.20	3.81	0.13	54.3
154817		15.10	0.013	0.005	0.001	<0.2	<0.001	0.11	7.15	27.4	570	1.99	0.21	4.45	0.14	51.5
154818		Not Recvd														
154819		Not Recvd														
154820		7.14	0.016	<0.005	<0.001	<0.2	<0.001	0.11	8.29	33.7	610	2.37	0.23	3.03	0.19	60.4
154821		6.06	0.015	<0.005	<0.001	<0.2	<0.001	0.10	7.95	34.3	640	2.26	0.22	3.17	0.19	57.1
154822		Not Recvd														
154823		8.18	0.014	<0.005	<0.001	<0.2	<0.001	0.11	7.79	40.3	630	2.11	0.21	3.42	0.18	61.5
154824		5.52	0.016	<0.005	<0.001	<0.2	<0.001	0.08	7.78	37.2	680	1.93	0.20	4.23	0.18	57.4
154825		7.20	0.013	0.005	0.001	<0.2	<0.001	0.13	6.83	50.7	770	1.63	0.15	5.51	0.16	62.7



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## CERTIFICATE OF ANALYSIS RE20034549

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	
		Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo
		ppm 0.1	ppm 1	ppm 0.05	ppm 0.2	% 0.01	ppm 0.05	ppm 0.05	ppm 0.1	ppm 0.005	% 0.01	ppm 0.5	ppm 0.2	% 0.01	ppm 5	ppm 0.05
155936		6.3	24	3.16	12.6	1.90	14.70	0.15	0.9	0.038	1.56	24.5	101.5	1.15	396	1.40
155937		8.1	32	3.73	14.7	2.36	16.45	0.14	1.0	0.043	1.83	27.3	98.7	1.21	502	1.49
155938		9.1	38	3.99	17.3	2.58	17.85	0.14	0.9	0.047	1.93	29.7	91.1	1.14	544	2.62
155939		10.8	45	4.90	20.8	3.04	18.70	0.12	1.0	0.058	2.08	30.9	139.5	1.69	629	3.07
155940		10.4	45	4.86	20.3	3.00	18.55	0.14	1.0	0.052	2.09	28.0	124.5	1.55	645	3.30
155941																
155942																
155943																
155944																
155945		0.7	7	4.33	4.7	0.59	15.25	0.15	2.9	0.031	3.37	12.8	41.8	0.11	429	5.45
155946																
155947		14.3	43	8.60	32.5	3.98	24.6	0.14	1.9	0.077	2.26	28.7	154.0	1.73	760	6.62
155948																
155949																
155950		15.6	54	8.60	33.3	4.14	24.7	0.14	1.8	0.072	2.52	31.8	185.0	1.73	801	16.25
154801																
154802		13.8	41	8.66	32.1	3.92	24.7	0.13	2.0	0.069	2.31	28.5	148.5	1.64	733	7.76
154803		13.0	44	8.83	30.6	3.93	24.7	0.15	2.1	0.070	2.35	31.8	146.0	1.58	698	14.75
154804		12.8	42	8.67	32.9	4.14	24.8	0.13	2.0	0.070	2.39	30.7	166.0	1.85	766	19.10
154805		13.3	43	8.83	31.2	3.92	24.5	0.14	2.0	0.071	2.37	31.2	163.5	1.64	730	17.50
154806		13.2	41	8.99	32.0	3.96	24.9	0.14	2.1	0.071	2.35	32.1	164.5	1.71	730	15.25
154807		12.4	40	8.46	29.2	3.78	23.7	0.14	2.1	0.064	2.27	29.3	152.5	1.56	646	17.05
154808		12.2	39	8.55	29.8	3.83	24.4	0.14	2.1	0.069	2.31	31.0	150.0	1.57	622	16.25
154809		11.4	38	8.10	27.0	3.67	21.7	0.10	1.9	0.064	2.20	24.6	142.0	1.49	592	12.55
154810		11.8	36	8.34	29.0	3.48	22.5	0.11	1.9	0.061	2.11	26.2	152.0	1.44	569	14.65
154811		11.0	35	7.88	27.2	3.44	21.3	0.12	1.8	0.063	2.11	26.2	145.5	1.43	578	15.20
154812		12.3	37	8.39	29.8	3.69	23.4	0.11	1.9	0.065	2.25	23.8	159.5	1.51	623	15.70
154813		11.5	34	7.83	28.6	3.46	21.5	0.13	1.8	0.059	2.12	27.8	143.0	1.45	617	16.90
154814		11.7	33	7.95	30.0	3.50	22.4	0.12	1.8	0.064	2.11	25.2	151.0	1.48	606	16.15
154815		79.0	1450	0.14	24.3	4.97	4.36	0.08	0.1	0.015	0.05	23.7	1.6	18.45	831	0.39
154816		11.6	37	7.77	29.9	3.81	22.3	0.10	1.8	0.065	2.29	24.4	146.5	1.62	646	14.55
154817		11.2	39	7.47	29.0	3.64	21.6	0.10	1.7	0.064	2.20	23.8	140.0	1.52	617	12.05
154818																
154819																
154820		12.9	40	8.33	32.8	4.17	24.5	0.12	1.9	0.076	2.44	27.4	151.0	1.77	819	15.65
154821		12.5	38	7.87	30.9	3.94	23.8	0.12	1.8	0.070	2.44	25.7	161.5	1.72	781	25.2
154822																
154823		11.7	37	7.70	28.5	3.73	22.1	0.14	1.8	0.063	2.37	28.5	158.0	1.65	745	12.95
154824		11.4	36	7.30	26.3	3.64	21.5	0.11	1.7	0.058	2.39	26.1	163.5	1.70	769	11.20
154825		8.3	25	4.71	18.8	2.64	17.95	0.14	1.4	0.048	1.99	29.7	229	1.93	635	6.52



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Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	
		Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05
155936		2.17	11.4	16.4	600	10.8	63.8	<0.002	0.23	7.30	6.7	1	1.4	645	0.74	<0.05
155937		2.50	12.0	22.2	680	11.9	73.3	<0.002	0.28	6.72	7.8	1	1.6	523	0.78	<0.05
155938		2.35	13.8	27.9	760	12.9	79.2	<0.002	0.17	7.68	8.9	1	1.7	501	0.92	<0.05
155939		2.39	12.6	31.6	810	13.8	86.6	<0.002	0.28	8.16	9.4	1	1.8	562	0.79	<0.05
155940		2.25	12.4	30.3	790	13.9	83.6	<0.002	0.70	8.29	9.1	1	1.8	535	0.82	<0.05
155941																
155942																
155943																
155944																
155945		2.49	21.1	3.1	90	22.8	111.0	<0.002	0.12	1.37	1.7	<1	1.5	261	1.79	<0.05
155946																
155947		2.08	12.2	31.9	900	15.6	95.3	0.015	1.18	9.43	12.6	2	2.2	450	0.77	<0.05
155948																
155949																
155950		1.91	12.4	39.8	950	17.0	113.0	0.004	1.84	8.26	12.2	1	2.3	563	0.80	0.05
154801																
154802		2.34	12.0	30.8	890	16.5	99.1	0.010	0.95	7.90	12.2	1	2.2	387	0.81	<0.05
154803		2.15	12.6	31.0	840	16.2	106.0	0.022	1.29	5.90	12.2	2	2.2	418	0.80	<0.05
154804		2.38	11.7	30.2	960	15.2	100.5	0.016	0.77	6.85	12.4	2	2.3	360	0.77	<0.05
154805		2.39	11.7	31.4	870	16.0	107.5	0.020	0.67	5.85	11.5	1	2.2	364	0.78	<0.05
154806		2.50	11.7	30.7	870	16.2	108.0	0.023	0.72	6.47	11.9	2	2.2	361	0.77	<0.05
154807		2.61	12.0	28.7	830	15.3	100.5	0.034	1.05	4.95	12.1	1	8.9	386	0.78	<0.05
154808		2.46	12.2	28.4	840	15.2	103.0	0.027	0.88	5.04	12.0	1	2.2	370	0.78	<0.05
154809		2.42	11.2	27.3	820	14.3	87.5	0.027	0.99	4.14	10.4	1	1.9	353	0.78	<0.05
154810		2.31	11.4	27.9	810	14.3	92.3	0.025	1.23	4.43	11.1	1	2.1	344	0.81	<0.05
154811		2.36	10.0	26.0	800	13.4	90.0	0.024	1.41	4.04	10.3	2	1.9	331	0.76	<0.05
154812		2.33	12.1	28.2	850	14.8	88.7	0.029	1.35	4.24	11.6	1	2.1	352	0.83	<0.05
154813		2.28	10.8	25.8	810	13.9	94.7	0.025	1.54	4.09	10.5	1	2.0	333	0.79	<0.05
154814		2.26	11.6	26.8	850	14.0	88.6	0.024	2.01	4.15	11.4	1	2.1	361	0.80	<0.05
154815		0.27	1.2	1725	30	3.8	1.1	<0.002	0.02	0.69	9.1	<1	<0.2	42.6	<0.05	0.09
154816		2.43	11.5	26.6	910	14.1	86.9	0.028	1.63	4.06	10.5	1	2.1	360	0.83	<0.05
154817		2.37	11.2	29.0	890	13.6	82.8	0.017	2.25	4.03	10.3	1	2.0	387	0.80	<0.05
154818																
154819																
154820		1.40	11.9	29.2	1040	15.9	88.7	<0.002	0.64	5.27	11.8	1	2.3	353	0.84	<0.05
154821		1.87	12.0	27.7	990	15.7	88.5	0.003	0.71	4.64	11.1	1	2.3	528	0.85	0.05
154822																
154823		3.31	10.8	25.7	950	14.9	97.5	0.017	1.00	4.48	10.7	3	2.0	540	0.78	<0.05
154824		2.82	11.3	25.2	940	15.1	93.1	0.008	0.90	4.26	10.0	1	1.9	613	0.80	<0.05
154825		3.47	12.7	18.2	880	14.3	81.4	0.007	0.48	3.77	8.0	2	1.7	984	0.89	<0.05



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		Th	Ti	Tl	U	V	W	Y	Zn	Zr	Dy	Er	Eu	Gd	Ho
		ppm 0.01	% 0.005	ppm 0.02	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	ppm 0.05	ppm 0.03	ppm 0.03	ppm 0.05	ppm 0.01
155936		6.17	0.292	0.36	4.9	51	5.9	13.2	49	29.9	2.57	1.27	0.85	3.04	0.45
155937		6.82	0.351	0.40	3.6	61	7.1	13.9	61	30.9	2.65	1.36	0.92	3.19	0.50
155938		8.02	0.379	0.47	4.5	66	7.1	15.8	66	27.1	2.98	1.52	1.04	3.70	0.56
155939		8.63	0.376	0.50	3.9	76	7.5	15.3	83	31.4	2.91	1.47	0.98	3.66	0.54
155940		7.78	0.375	0.50	3.3	74	7.5	14.9	81	32.2	2.90	1.48	0.94	3.40	0.53
155941															
155942															
155943															
155944															
155945		7.39	0.051	0.69	3.0	7	1.8	10.1	39	68.5	1.78	1.13	0.27	1.70	0.36
155946															
155947		9.52	0.342	0.66	2.3	79	7.3	16.0	119	60.2	3.10	1.61	0.90	3.62	0.56
155948															
155949															
155950		10.25	0.371	0.70	2.7	91	8.4	16.6	122	59.6	3.15	1.62	0.96	3.72	0.59
154801															
154802		9.63	0.338	0.64	2.4	78	6.8	15.8	117	64.3	3.08	1.64	0.93	3.66	0.59
154803		10.15	0.364	0.64	2.2	79	5.7	16.5	117	66.5	3.18	1.64	0.96	3.72	0.59
154804		10.05	0.341	0.61	2.4	81	5.9	16.6	125	65.2	3.15	1.64	0.91	3.72	0.59
154805		10.15	0.350	0.61	2.4	79	5.8	16.1	118	67.3	3.01	1.62	0.90	3.65	0.57
154806		10.20	0.342	0.61	2.4	79	6.1	16.2	121	67.7	3.10	1.61	0.92	3.66	0.57
154807		9.52	0.347	0.60	2.2	76	5.1	15.5	114	67.3	3.01	1.57	0.89	3.59	0.56
154808		9.95	0.352	0.60	2.3	77	5.0	15.8	115	69.6	3.06	1.60	0.91	3.57	0.56
154809		8.53	0.339	0.56	2.1	74	4.4	14.7	111	62.6	2.92	1.53	0.84	3.37	0.54
154810		9.11	0.322	0.62	2.3	70	4.8	15.5	106	62.3	2.97	1.56	0.85	3.45	0.55
154811		9.04	0.318	0.55	2.1	69	4.5	14.9	105	59.2	2.79	1.51	0.81	3.38	0.53
154812		8.77	0.346	0.62	2.4	74	4.5	15.5	113	64.6	2.99	1.60	0.86	3.52	0.55
154813		9.39	0.326	0.56	2.2	70	4.7	15.5	106	58.1	2.95	1.51	0.85	3.49	0.53
154814		9.01	0.317	0.59	2.3	70	4.5	15.6	108	59.2	2.89	1.61	0.84	3.53	0.56
154815		1.38	0.031	0.02	0.2	45	0.2	1.9	50	1.8	0.49	0.21	0.50	1.20	0.08
154816		8.95	0.342	0.61	2.2	76	4.7	15.1	117	58.1	2.95	1.60	0.82	3.45	0.54
154817		8.55	0.334	0.56	2.4	73	4.5	14.6	113	56.2	2.78	1.47	0.78	3.26	0.53
154818															
154819															
154820		9.95	0.363	0.66	2.7	83	5.4	16.7	131	61.6	3.30	1.73	0.92	3.87	0.60
154821		9.34	0.362	0.63	2.8	80	5.6	15.8	124	59.6	3.10	1.63	0.89	3.70	0.57
154822															
154823		9.81	0.339	0.59	3.1	76	6.5	16.0	117	57.2	3.06	1.57	0.88	3.65	0.56
154824		9.07	0.353	0.54	3.3	76	6.4	15.6	113	54.7	2.97	1.52	0.88	3.59	0.54
154825		8.14	0.360	0.47	5.2	65	7.8	16.2	73	44.6	2.92	1.56	0.99	3.70	0.54



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# CERTIFICATE OF ANALYSIS RE20034549

Sample Description	Method Analyte Units LOD	ME-MS61r Nd ppm 0.1	ME-MS61r Pr ppm 0.03	ME-MS61r Sm ppm 0.03	ME-MS61r Tb ppm 0.01	ME-MS61r Tm ppm 0.01	ME-MS61r Yb ppm 0.03	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5
155936		21.3	5.43	4.17	0.44	0.18	1.12	0.4	1.13	52	70	170	<0.5	<2	8.5	<0.5
155937		23.3	5.93	4.48	0.47	0.19	1.24									
155938		26.2	6.64	5.12	0.55	0.21	1.33									
155939		26.0	6.67	5.08	0.52	0.21	1.33									
155940		24.7	6.19	4.84	0.51	0.21	1.32									
155941																
155942																
155943																
155944																
155945		10.0	2.67	2.16	0.29	0.18	1.23									
155946																
155947		25.5	6.46	4.91	0.54	0.22	1.45									
155948																
155949																
155950		26.2	6.73	5.05	0.55	0.23	1.47									
154801																
154802		24.8	6.32	4.89	0.54	0.23	1.46									
154803		26.3	6.81	5.28	0.55	0.23	1.45									
154804		25.8	6.58	5.01	0.55	0.23	1.46									
154805		25.6	6.61	4.95	0.53	0.22	1.43									
154806		26.3	6.77	5.08	0.55	0.23	1.45	<0.2	3.37	30	150	220	1.4	<2	2.47	<0.5
154807		24.8	6.38	4.85	0.52	0.22	1.43									
154808		26.1	6.68	5.07	0.53	0.23	1.44									
154809		24.5	6.06	4.52	0.50	0.21	1.36									
154810		25.2	6.26	4.57	0.52	0.21	1.42									
154811		24.7	6.17	4.40	0.49	0.21	1.37									
154812		23.9	5.95	4.55	0.52	0.21	1.48									
154813		25.2	6.34	4.52	0.52	0.21	1.43									
154814		24.3	6.07	4.48	0.51	0.21	1.44									
154815		15.0	4.05	2.39	0.12	0.02	0.18									
154816		24.0	5.97	4.49	0.53	0.21	1.43									
154817		23.2	5.73	4.22	0.49	0.20	1.39									
154818																
154819																
154820		26.7	6.68	5.00	0.57	0.23	1.58									
154821		25.2	6.31	4.74	0.55	0.23	1.49									
154822																
154823		26.7	6.69	4.69	0.54	0.21	1.45									
154824		25.1	6.20	4.53	0.52	0.21	1.41									
154825		27.5	6.87	4.89	0.52	0.21	1.42									



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Sample Description	Method Analyte Units LOD	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10	Hg-MS42 Hg ppm 0.005	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2
155936 155937 155938 155939 155940		4	14	10	1.36	10	0.474	0.33	10	0.89	264	1	0.52	14	530	2
155941 155942 155943 155944 155945																
155946 155947 155948 155949 155950																
154801 154802 154803 154804 154805																
154806 154807 154808 154809 154810		11	28	27	3.10	10	0.009	0.95	20	1.36	647	11	1.72	25	770	9
154811 154812 154813 154814 154815																
154816 154817 154818 154819 154820																
154821 154822 154823 154824 154825																



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**CERTIFICATE OF ANALYSIS RE20034549**

Sample Description	Method Analyte Units LOD	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
155936 155937 155938 155939 155940		0.20	3	2	340	<20	0.05	<10	<10	26	<10	38
155941 155942 155943 155944 155945												
155946 155947 155948 155949 155950												
154801 154802 154803 154804 154805												
154806 154807 154808 154809 154810		0.68	2	7	223	<20	0.07	<10	<10	45	<10	96
154811 154812 154813 154814 154815												
154816 154817 154818 154819 154820												
154821 154822 154823 154824 154825												





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## CERTIFICATE OF ANALYSIS RE20034549

Sample Description	Method Analyte Units LOD	WEI-21	PGM-ICP23	PGM-ICP23	PGM-ICP23	Ag-AA45	Rh-MS25	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Recvd Wt. kg	Au ppm	Pt ppm	Pd ppm	Ag ppm	Rh ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm
		0.02	0.001	0.005	0.001	0.2	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01
154826		8.10	0.012	<0.005	<0.001	0.2	<0.001	0.17	7.03	30.1	660	1.68	0.15	5.29	0.27	58.1
154827		5.82	0.037	<0.005	<0.001	0.7	<0.001	0.54	6.50	38.0	760	1.30	0.10	7.34	0.11	48.7
154828		7.16	0.043	<0.005	<0.001	0.4	<0.001	0.49	7.02	53.4	770	1.57	0.12	4.25	0.12	47.3
154829		8.90	0.024	<0.005	<0.001	0.3	<0.001	0.36	6.22	32.1	650	1.32	0.12	8.18	0.14	49.3
154830		10.56	0.025	<0.005	0.001	<0.2	<0.001	0.22	7.09	40.5	730	1.60	0.15	5.18	0.12	58.5
154831		8.16	0.019	<0.005	0.001	<0.2	<0.001	0.12	6.96	32.7	780	1.52	0.13	4.74	0.09	52.9
154832		8.76	0.020	<0.005	<0.001	<0.2	<0.001	0.13	7.49	35.9	800	1.80	0.16	4.43	0.11	60.1
154833		7.90	0.022	<0.005	<0.001	<0.2	<0.001	0.12	7.60	42.5	790	1.93	0.16	3.64	0.09	58.7
154834		7.72	0.022	<0.005	<0.001	<0.2	<0.001	0.13	7.62	43.6	810	1.78	0.17	3.63	0.11	48.7
154835		7.72	0.017	<0.005	0.001	<0.2	<0.001	0.10	7.44	40.5	830	1.81	0.16	4.18	0.13	58.4
154836		8.10	0.013	<0.005	<0.001	<0.2	<0.001	0.10	7.27	37.5	820	1.59	0.14	4.49	0.11	51.4
154837		Not Recvd														
154838		7.66	0.011	<0.005	<0.001	<0.2	<0.001	0.12	6.52	31.5	820	1.49	0.12	4.74	0.11	51.2
154839		Not Recvd														
154840		Not Recvd														
154841		15.66	0.010	<0.005	<0.001	<0.2	<0.001	0.08	6.39	32.3	630	1.39	0.15	6.92	0.23	52.1
154842		3.52	0.021	<0.005	0.001	0.2	<0.001	0.24	8.05	44.0	660	2.20	0.21	3.17	0.20	63.4
154843		Not Recvd														
154844		9.22	0.013	<0.005	0.001	<0.2	<0.001	0.10	6.97	39.2	750	1.81	0.15	4.01	0.11	57.8
154845		0.06	0.089	<0.005	<0.001	<0.2	<0.001	0.07	4.65	5.6	390	1.99	0.18	4.19	0.09	20.3
154846		5.18	0.033	<0.005	0.001	0.5	<0.001	0.80	6.63	41.2	680	1.54	0.13	5.90	0.13	55.6
154847		3.34	0.089	<0.005	0.001	1.6	0.001	1.66	6.36	107.0	680	1.31	0.10	6.74	0.08	44.8
154848		7.92	0.017	<0.005	<0.001	0.3	<0.001	0.36	7.22	29.6	800	1.65	0.13	3.43	0.10	56.2
154849		15.78	0.037	<0.005	<0.001	1.6	<0.001	1.56	6.88	53.9	850	1.59	0.11	3.66	0.09	51.0
154850		0.06	0.001	<0.005	<0.001	<0.2	<0.001	0.01	0.33	0.5	30	0.07	0.01	0.02	<0.02	9.11
154851		12.34	0.064	<0.005	0.001	<0.2	<0.001	0.16	7.43	66.3	730	1.64	0.19	4.06	0.13	73.0
154852		6.22	0.014	<0.005	<0.001	<0.2	<0.001	0.12	8.07	37.8	800	2.06	0.21	1.83	0.12	89.8
154853		12.86	0.046	<0.005	<0.001	0.2	<0.001	0.15	7.61	50.2	690	2.01	0.20	2.80	0.09	69.6
154854		10.68	0.022	<0.005	<0.001	<0.2	<0.001	0.12	7.90	36.7	770	1.99	0.21	1.73	0.12	89.1
154855		17.08	0.050	<0.005	0.001	<0.2	<0.001	0.16	7.81	53.1	880	2.05	0.20	3.56	0.10	67.9
154856		10.64	0.044	<0.005	<0.001	0.2	<0.001	0.15	7.90	36.7	760	1.88	0.28	4.22	0.12	76.9
154857		7.62	0.052	<0.005	<0.001	<0.2	<0.001	0.22	7.73	57.9	700	1.75	0.22	3.00	0.10	72.3
154858		10.70	0.039	<0.005	<0.001	<0.2	<0.001	0.23	7.91	52.5	750	2.08	0.21	2.85	0.12	64.3
154859		7.98	0.081	<0.005	<0.001	1.7	<0.001	1.86	7.78	104.5	730	1.89	0.21	1.73	0.13	73.3
154860		2.82	0.038	<0.005	<0.001	0.6	<0.001	1.00	7.79	66.7	730	2.06	0.23	2.28	0.12	67.4
154861		7.36	0.044	<0.005	<0.001	<0.2	<0.001	0.12	7.59	56.0	740	2.16	0.21	3.03	0.08	58.1
154862		6.72	0.026	<0.005	<0.001	0.4	<0.001	0.42	7.52	66.6	760	1.87	0.19	2.70	0.12	75.4
154863		9.12	0.008	<0.005	<0.001	<0.2	<0.001	0.70	7.84	28.7	800	1.82	0.18	3.26	0.14	59.2
154864		7.42	0.039	<0.005	0.001	<0.2	<0.001	0.12	7.48	39.6	760	1.68	0.19	3.61	0.10	81.2
154865		14.06	0.044	<0.005	<0.001	<0.2	<0.001	0.12	7.09	41.4	740	1.61	0.19	3.75	0.12	74.7



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## CERTIFICATE OF ANALYSIS RE20034549

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	
		Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo
		ppm 0.1	ppm 1	ppm 0.05	ppm 0.2	% 0.01	ppm 0.05	ppm 0.05	ppm 0.1	ppm 0.005	% 0.01	ppm 0.5	ppm 0.2	% 0.01	ppm 5	ppm 0.05
154826		8.8	28	4.70	17.4	2.72	17.90	0.12	1.4	0.049	2.09	28.0	161.0	1.46	596	2.79
154827		5.8	24	3.06	10.7	2.00	14.15	0.13	1.0	0.037	1.80	22.9	105.5	1.06	386	0.84
154828		7.3	31	4.16	14.0	2.29	17.30	0.11	1.1	0.040	2.07	20.8	100.5	0.98	444	2.38
154829		7.0	24	3.81	13.1	2.17	15.00	0.11	1.1	0.040	1.75	23.9	134.5	1.32	425	1.73
154830		8.9	32	5.04	17.7	2.73	18.00	0.12	1.4	0.045	2.01	28.2	168.5	1.49	545	4.08
154831		8.1	29	4.37	15.7	2.52	17.35	0.13	1.2	0.045	2.06	24.7	178.5	1.48	541	3.82
154832		9.2	33	5.60	19.1	2.81	19.45	0.13	1.4	0.050	2.12	28.4	166.0	1.43	550	3.31
154833		10.8	35	6.59	22.2	3.11	21.1	0.13	1.6	0.057	2.23	27.0	167.5	1.36	627	4.57
154834		10.5	39	6.37	22.2	3.25	20.1	0.11	1.5	0.054	2.25	21.8	155.0	1.39	700	5.10
154835		10.5	33	6.55	21.2	3.10	20.1	0.12	1.6	0.051	2.21	27.0	171.5	1.44	725	14.00
154836		9.3	31	5.90	18.9	2.94	18.60	0.12	1.5	0.048	2.16	24.3	169.0	1.38	649	8.11
154837																
154838		8.0	24	4.41	16.3	2.30	17.05	0.12	1.4	0.046	1.92	24.9	172.0	1.18	541	3.71
154839																
154840																
154841		8.1	24	4.95	18.0	2.45	16.80	0.12	1.4	0.043	1.84	25.5	162.5	1.47	545	24.1
154842		12.5	38	8.79	29.8	3.73	24.2	0.11	1.9	0.065	2.35	28.2	142.0	1.58	747	4.19
154843																
154844		9.4	29	6.39	20.3	2.79	19.05	0.12	1.6	0.050	2.07	26.6	176.0	1.55	648	7.39
154845		0.7	6	4.10	4.2	0.54	13.50	0.11	2.6	0.028	3.10	9.1	36.7	0.10	392	4.72
154846		7.0	23	4.21	14.8	2.15	16.50	0.15	1.3	0.045	1.86	26.9	99.0	0.88	456	1.26
154847		5.8	23	4.14	11.7	1.73	15.20	0.15	0.9	0.037	1.76	21.9	139.0	0.99	359	0.77
154848		6.9	27	3.92	12.6	2.29	17.50	0.13	1.2	0.042	2.03	24.3	67.2	0.75	418	0.75
154849		6.5	27	3.92	10.7	1.98	16.80	0.11	1.1	0.036	1.95	22.4	91.5	0.73	615	1.08
154850		0.1	4	0.15	0.9	0.07	0.83	0.06	0.2	0.011	0.12	4.0	1.9	0.02	<5	<0.05
154851		10.5	44	6.24	23.7	3.94	21.0	0.18	1.0	0.060	1.86	37.4	35.8	1.10	535	1.43
154852		9.3	40	4.84	18.6	3.84	20.6	0.20	1.3	0.052	2.24	45.9	36.1	0.92	572	1.01
154853		10.1	40	6.01	21.1	3.88	21.9	0.18	1.2	0.057	1.89	35.4	41.5	1.07	522	1.03
154854		9.6	40	4.81	19.0	3.71	20.3	0.19	1.3	0.052	2.23	48.4	35.7	0.89	605	0.99
154855		10.0	37	6.05	21.8	4.04	22.4	0.17	1.2	0.055	1.93	34.2	46.1	1.09	558	1.05
154856		10.0	40	5.44	20.8	3.73	20.5	0.20	1.3	0.054	2.07	41.4	37.4	1.07	544	0.94
154857		10.0	46	6.09	20.9	4.13	21.6	0.18	1.1	0.057	1.90	37.7	35.5	1.04	535	1.06
154858		9.7	41	5.85	21.5	3.88	21.4	0.18	1.3	0.058	2.13	33.4	45.0	1.08	555	0.87
154859		10.0	41	5.38	20.7	3.69	20.3	0.18	1.1	0.054	2.11	38.3	42.6	0.98	567	0.87
154860		11.1	44	5.74	22.2	3.85	21.8	0.18	1.3	0.059	2.13	33.9	45.7	1.08	598	0.88
154861		10.7	41	6.52	20.9	3.76	21.7	0.18	1.3	0.054	2.02	29.3	49.5	1.02	520	0.83
154862		10.0	37	5.90	18.5	3.55	20.5	0.19	1.1	0.051	2.12	39.5	39.4	0.90	580	0.90
154863		10.5	31	4.72	27.9	3.58	21.9	0.18	1.1	0.048	2.27	29.7	40.7	1.39	612	1.92
154864		9.4	37	5.06	17.7	3.35	19.40	0.21	1.3	0.048	2.04	41.8	32.1	0.93	525	0.79
154865		9.5	35	5.28	17.9	3.13	19.55	0.20	1.2	0.049	1.94	38.2	30.5	0.91	490	0.78



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## CERTIFICATE OF ANALYSIS RE20034549

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	
		Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05
154826		3.10	11.7	18.2	730	13.0	82.4	0.003	0.28	4.16	8.0	1	1.8	440	0.83	<0.05
154827		2.33	10.0	14.3	570	10.5	63.2	0.002	0.14	5.96	6.0	1	1.3	777	0.76	<0.05
154828		2.37	10.8	19.7	570	13.1	66.5	0.005	0.29	8.81	6.8	2	1.5	560	0.81	<0.05
154829		2.43	9.6	16.5	560	10.9	70.2	0.002	0.28	5.16	6.7	1	1.4	657	0.79	<0.05
154830		2.66	12.1	22.0	720	13.6	79.0	0.003	0.51	5.69	8.0	2	1.6	542	0.87	<0.05
154831		2.63	12.0	19.6	710	13.7	69.6	0.003	0.32	4.58	7.4	1	1.6	563	0.86	<0.05
154832		2.46	11.5	22.6	750	14.8	86.7	0.002	0.61	5.41	8.6	2	1.7	559	0.87	<0.05
154833		2.55	11.6	26.1	760	16.3	86.8	0.002	0.51	5.64	9.4	2	1.8	526	0.87	<0.05
154834		2.41	11.1	26.4	790	15.5	74.1	<0.002	0.47	6.18	8.9	2	1.7	509	0.81	<0.05
154835		2.25	11.8	24.3	790	16.9	81.8	0.010	0.62	4.85	8.9	3	1.8	589	0.82	<0.05
154836		2.20	9.8	21.3	760	14.9	78.8	0.012	0.74	3.59	7.9	2	1.6	1010	0.73	<0.05
154837																
154838		2.08	10.3	17.4	690	16.2	75.9	0.002	0.39	3.24	7.0	1	1.5	761	0.80	<0.05
154839																
154840																
154841		2.14	9.7	17.8	730	13.1	78.2	0.005	0.29	3.36	7.6	1	1.5	564	0.73	<0.05
154842		1.29	11.6	29.2	930	16.2	90.0	<0.002	0.28	7.54	11.3	1	2.1	484	0.81	<0.05
154843																
154844		2.41	11.7	20.8	810	15.2	82.8	0.005	0.46	4.12	8.6	1	1.7	641	0.83	<0.05
154845		2.32	18.7	3.0	80	21.1	102.0	<0.002	0.10	1.16	1.5	1	1.4	240	1.68	<0.05
154846		2.21	9.9	17.4	610	12.1	70.2	<0.002	0.12	8.61	7.3	1	1.5	674	0.76	<0.05
154847		2.48	9.2	15.0	550	10.9	69.2	<0.002	0.09	22.9	6.4	1	1.3	832	0.76	<0.05
154848		2.47	13.2	17.6	540	12.7	68.4	<0.002	0.02	6.77	6.9	1	1.6	565	0.93	<0.05
154849		2.74	12.2	16.7	470	12.3	68.0	<0.002	0.05	12.85	6.9	1	1.4	591	0.89	<0.05
154850		0.01	0.6	0.5	20	<0.5	3.0	<0.002	<0.01	0.16	0.3	1	<0.2	4.1	<0.05	<0.05
154851		1.42	17.1	32.0	1270	15.6	71.9	<0.002	0.02	14.05	9.8	1	2.2	333	1.14	<0.05
154852		1.99	18.4	24.8	750	16.8	94.3	<0.002	0.01	9.54	9.8	1	2.3	371	1.27	0.05
154853		1.42	15.9	27.3	1060	14.7	78.3	<0.002	0.05	10.95	10.2	1	2.3	327	1.08	<0.05
154854		1.92	19.1	24.7	650	16.3	97.0	<0.002	0.01	8.61	10.2	1	2.3	358	1.36	<0.05
154855		1.42	15.6	24.8	1310	15.0	71.4	<0.002	0.04	10.85	9.4	1	2.3	373	1.05	<0.05
154856		1.55	15.7	24.8	1030	16.0	88.3	<0.002	0.02	8.95	9.6	1	2.2	367	1.11	<0.05
154857		1.55	16.3	30.5	1110	14.5	75.4	<0.002	0.02	13.05	9.8	1	2.1	342	1.09	<0.05
154858		1.55	15.3	27.1	1170	16.1	81.2	<0.002	0.02	11.30	9.9	1	2.2	353	1.16	<0.05
154859		1.70	15.7	27.9	1040	18.4	90.3	0.002	0.04	26.6	9.9	1	2.2	339	1.13	<0.05
154860		1.56	18.8	28.9	830	17.4	86.2	<0.002	0.03	18.45	10.5	1	2.7	340	1.37	<0.05
154861		1.52	16.6	26.6	850	14.9	74.1	<0.002	0.02	11.80	9.6	1	2.3	346	1.25	<0.05
154862		1.74	16.2	24.3	880	17.5	86.3	<0.002	0.02	18.10	9.5	1	2.4	361	1.10	<0.05
154863		2.54	16.1	23.8	980	16.4	83.6	<0.002	0.10	6.61	8.5	1	2.1	597	1.21	<0.05
154864		1.84	19.1	25.1	740	15.8	78.0	<0.002	0.02	8.72	9.0	1	2.1	407	1.44	<0.05
154865		1.74	21.0	26.2	720	15.7	74.0	<0.002	0.02	9.35	8.8	1	2.2	392	1.54	<0.05



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## CERTIFICATE OF ANALYSIS RE20034549

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Th	Ti	Ti	U	V	W	Y	Zn	Zr	Dy	Er	Eu	Gd	Ho
		ppm 0.01	% 0.005	ppm 0.02	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	ppm 0.05	ppm 0.03	ppm 0.03	ppm 0.05	ppm 0.01
154826		8.20	0.352	0.46	4.5	71	8.5	15.5	75	43.0	2.84	1.48	0.93	3.53	0.52
154827		7.98	0.312	0.37	2.7	55	4.1	12.8	50	30.2	2.41	1.23	0.83	3.09	0.44
154828		6.39	0.325	0.44	3.1	56	5.1	13.2	60	33.9	2.69	1.37	0.90	3.24	0.49
154829		6.40	0.297	0.40	3.0	52	4.3	13.0	58	34.7	2.39	1.22	0.80	2.98	0.44
154830		8.62	0.350	0.48	3.8	64	5.2	14.7	74	42.4	2.80	1.41	0.94	3.44	0.52
154831		6.94	0.347	0.43	3.4	60	4.7	14.2	68	39.2	2.76	1.43	0.92	3.43	0.51
154832		8.62	0.350	0.50	3.9	65	5.1	15.8	77	45.7	2.98	1.58	1.00	3.77	0.55
154833		8.27	0.350	0.58	3.1	71	5.9	15.0	88	52.0	2.93	1.55	0.96	3.57	0.55
154834		7.27	0.356	0.48	2.9	73	5.6	14.2	94	49.8	2.73	1.44	0.85	3.26	0.50
154835		7.99	0.348	0.51	3.8	70	6.4	15.3	90	53.1	2.94	1.52	0.93	3.63	0.54
154836		7.02	0.343	0.47	3.5	69	6.0	13.9	85	51.7	2.56	1.36	0.85	3.21	0.49
154837															
154838		7.00	0.298	0.45	4.5	57	8.1	13.4	65	45.8	2.50	1.31	0.86	3.18	0.46
154839															
154840															
154841		7.65	0.298	0.43	4.1	57	6.9	13.9	71	46.7	2.60	1.38	0.84	3.27	0.47
154842		9.52	0.337	0.59	2.8	76	5.9	16.7	115	63.8	3.22	1.69	0.95	3.86	0.60
154843															
154844		7.66	0.339	0.47	4.0	66	7.8	15.1	82	54.9	2.84	1.47	0.89	3.51	0.51
154845		6.21	0.047	0.66	2.6	7	1.5	8.8	36	60.4	1.67	1.06	0.24	1.54	0.34
154846		6.93	0.295	0.41	2.1	55	4.7	14.0	56	37.8	2.60	1.35	0.88	3.21	0.49
154847		5.68	0.270	0.43	2.1	55	4.7	12.2	48	29.2	2.27	1.22	0.82	2.80	0.43
154848		6.89	0.364	0.43	1.9	57	4.5	15.7	53	35.1	2.99	1.56	1.08	3.78	0.55
154849		6.34	0.329	0.43	2.2	62	8.7	14.1	50	35.3	2.59	1.36	0.91	3.28	0.48
154850		1.39	0.025	0.02	0.2	2	0.1	1.0	<2	5.6	0.23	0.11	0.09	0.36	0.04
154851		10.75	0.456	0.52	2.9	91	15.4	17.7	97	26.2	3.72	1.85	1.34	4.77	0.66
154852		16.00	0.496	0.51	2.7	89	13.5	20.8	79	34.8	4.30	2.17	1.45	5.48	0.77
154853		12.35	0.424	0.51	2.7	83	12.2	18.3	88	33.5	3.87	1.93	1.27	4.73	0.70
154854		16.45	0.491	0.54	2.5	87	12.2	21.0	78	35.9	4.39	2.23	1.43	5.33	0.79
154855		9.83	0.418	0.50	2.7	89	13.5	18.3	92	32.1	3.96	1.95	1.32	4.96	0.71
154856		12.70	0.442	0.49	2.5	81	13.5	19.8	86	36.2	4.06	2.06	1.32	5.06	0.72
154857		20.1	0.433	0.51	2.9	91	17.6	19.0	89	30.1	3.94	2.00	1.30	4.84	0.70
154858		11.60	0.432	0.53	3.0	85	20.6	17.5	92	35.7	3.69	1.88	1.21	4.48	0.67
154859		11.60	0.451	0.57	2.1	87	116.0	19.0	84	29.8	3.94	2.01	1.37	4.99	0.71
154860		11.70	0.466	0.55	2.3	87	53.8	19.4	88	37.4	4.12	2.10	1.33	5.00	0.76
154861		10.20	0.407	0.52	2.4	83	16.0	16.4	85	35.5	3.51	1.81	1.11	4.29	0.63
154862		11.20	0.437	0.54	2.2	83	69.2	17.4	81	29.6	3.75	1.82	1.28	4.51	0.67
154863		9.43	0.389	0.45	2.9	89	31.2	14.5	159	31.7	3.04	1.53	1.09	3.78	0.54
154864		13.85	0.441	0.46	2.3	79	7.5	19.6	71	35.2	4.17	2.05	1.33	5.26	0.73
154865		11.70	0.426	0.47	2.1	74	8.2	18.6	68	33.8	4.03	2.02	1.34	4.91	0.72



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# CERTIFICATE OF ANALYSIS RE20034549

Sample Description	Method Analyte Units LOD	ME-MS61r Nd ppm 0.1	ME-MS61r Pr ppm 0.03	ME-MS61r Sm ppm 0.03	ME-MS61r Tb ppm 0.01	ME-MS61r Tm ppm 0.01	ME-MS61r Yb ppm 0.03	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5
154826		25.9	6.50	4.65	0.51	0.20	1.33									
154827		21.8	5.48	3.95	0.44	0.16	1.09									
154828		21.9	5.38	4.11	0.48	0.18	1.21									
154829		21.9	5.53	3.83	0.43	0.17	1.08									
154830		25.4	6.46	4.47	0.50	0.19	1.32									
154831		24.2	6.02	4.38	0.49	0.19	1.25	<0.2	1.66	29	100	110	0.6	<2	3.32	<0.5
154832		26.7	6.69	4.69	0.54	0.21	1.41									
154833		25.4	6.40	4.60	0.52	0.21	1.37									
154834		22.1	5.43	4.14	0.48	0.19	1.32									
154835		25.7	6.45	4.61	0.52	0.21	1.35									
154836		22.8	5.67	4.09	0.46	0.19	1.25									
154837																
154838		22.6	5.66	4.07	0.45	0.17	1.20									
154839																
154840																
154841		22.7	5.78	4.06	0.46	0.18	1.21									
154842		27.5	6.92	4.93	0.55	0.23	1.53									
154843																
154844		25.2	6.24	4.52	0.50	0.20	1.36									
154845		8.8	2.30	1.80	0.27	0.16	1.20									
154846		24.2	6.04	4.23	0.45	0.18	1.17									
154847		20.5	5.07	3.76	0.42	0.15	1.07									
154848		26.5	6.44	4.82	0.53	0.22	1.43									
154849		23.0	5.72	4.13	0.46	0.18	1.24									
154850		3.8	1.00	0.59	0.05	0.01	0.09									
154851		35.2	9.28	6.41	0.67	0.26	1.74									
154852		41.5	10.70	7.49	0.77	0.32	2.04									
154853		33.3	8.81	6.17	0.66	0.27	1.75									
154854		39.6	10.50	7.07	0.76	0.31	2.04									
154855		32.9	8.52	6.11	0.68	0.28	1.81									
154856		35.9	9.52	6.58	0.71	0.30	1.93									
154857		33.8	8.95	6.12	0.69	0.28	1.80									
154858		32.5	8.22	5.98	0.65	0.27	1.73									
154859		34.1	8.95	6.40	0.70	0.28	1.83									
154860		33.6	8.60	6.34	0.72	0.30	1.96									
154861		28.4	7.47	5.39	0.62	0.26	1.70									
154862		33.3	8.71	5.91	0.64	0.25	1.68									
154863		26.7	7.09	5.07	0.53	0.22	1.40									
154864		37.0	9.89	6.74	0.74	0.29	1.85									
154865		34.7	9.35	6.41	0.70	0.29	1.85									



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Sample Description	Method Analyte Units LOD	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10	Hg-MS42 Hg ppm 0.005	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2
154826 154827 154828 154829 154830																
154831 154832 154833 154834 154835		6	17	14	1.84	10	0.029	0.51	10	1.23	389	3	0.78	15	620	5
154836 154837 154838 154839 154840																
154841 154842 154843 154844 154845																
154846 154847 154848 154849 154850																
154851 154852 154853 154854 154855																
154856 154857 154858 154859 154860																
154861 154862 154863 154864 154865																



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CERTIFICATE OF ANALYSIS RE20034549

Sample Description	Method Analyte Units LOD	ME-ICP41 S %	ME-ICP41 Sb ppm	ME-ICP41 Sc ppm	ME-ICP41 Sr ppm	ME-ICP41 Th ppm	ME-ICP41 Ti %	ME-ICP41 Tl ppm	ME-ICP41 U ppm	ME-ICP41 V ppm	ME-ICP41 W ppm	ME-ICP41 Zn ppm
154826 154827 154828 154829 154830		0.01	2	1	1	20	0.01	10	10	1	10	2
154831 154832 154833 154834 154835		0.28	2	3	217	<20	0.06	<10	<10	32	<10	53
154836 154837 154838 154839 154840												
154841 154842 154843 154844 154845												
154846 154847 154848 154849 154850												
154851 154852 154853 154854 154855												
154856 154857 154858 154859 154860												
154861 154862 154863 154864 154865												



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Sample Description	Method Analyte Units LOD	WEI-21	PGM-ICP23	PGM-ICP23	PGM-ICP23	Ag-AA45	Rh-MS25	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Recvd Wt. kg	Au ppm	Pt ppm	Pd ppm	Ag ppm	Rh ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm
		0.02	0.001	0.005	0.001	0.2	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01
154866		13.82	0.032	<0.005	<0.001	<0.2	<0.001	0.16	7.56	38.4	790	1.76	0.18	3.06	0.11	75.2
154867		17.24	0.025	<0.005	<0.001	<0.2	<0.001	0.18	7.80	49.3	800	1.84	0.18	2.19	0.11	72.9
154868		12.22	0.023	<0.005	<0.001	<0.2	<0.001	0.19	7.73	50.5	780	1.91	0.17	2.08	0.10	71.5
154869		7.40	0.024	<0.005	<0.001	<0.2	<0.001	0.12	7.56	41.7	800	1.69	0.15	2.36	0.10	64.8
154870		12.20	0.687	<0.005	<0.001	28.2	<0.001	27.5	7.62	1200	560	2.10	0.13	0.90	0.16	47.8
154871		13.74	0.030	<0.005	<0.001	<0.2	<0.001	0.25	8.40	52.4	910	2.22	0.18	2.25	0.12	80.1
154872		11.44	0.015	<0.005	<0.001	<0.2	<0.001	0.17	8.36	46.7	860	2.17	0.18	2.00	0.13	77.6
154873		10.10	0.031	<0.005	<0.001	<0.2	<0.001	0.13	8.15	52.0	840	2.23	0.18	2.22	0.10	72.3
154874		12.18	0.022	<0.005	<0.001	<0.2	<0.001	0.14	7.51	47.0	770	2.06	0.17	1.75	0.11	85.3
154875		0.06	0.025	0.046	0.219	<0.2	0.003	0.03	3.62	3.4	40	<0.05	0.15	2.38	0.03	43.6
154876		4.40	0.024	<0.005	<0.001	0.9	<0.001	1.30	8.10	53.9	830	1.94	0.16	2.08	0.13	68.8
154877		5.36	0.013	<0.005	<0.001	0.3	<0.001	0.62	8.16	26.0	810	1.97	0.18	2.20	0.09	77.4
154878		5.08	0.027	<0.005	<0.001	<0.2	<0.001	0.19	8.02	49.0	760	1.85	0.21	4.04	0.11	79.8
154879		6.38	0.092	<0.005	<0.001	<0.2	<0.001	0.16	8.36	26.0	790	1.88	0.22	1.77	0.13	88.6
154880		3.18	0.067	<0.005	<0.001	2.4	<0.001	2.61	7.77	148.5	780	2.08	0.19	1.48	0.11	71.3
154881		11.78	0.040	<0.005	<0.001	0.5	<0.001	0.58	8.10	60.7	820	2.28	0.19	1.75	0.12	87.1
154882		9.12	0.033	<0.005	<0.001	<0.2	<0.001	0.09	8.05	27.6	730	2.30	0.20	2.81	0.08	73.0
154883		14.48	0.047	<0.005	<0.001	<0.2	<0.001	0.09	7.76	33.0	650	2.26	0.21	3.27	0.08	74.1
154884		6.18	0.025	<0.005	<0.001	<0.2	<0.001	0.15	8.06	29.1	830	1.97	0.17	3.01	0.13	82.5
154885		19.80	0.074	<0.005	<0.001	<0.2	<0.001	0.12	8.09	29.8	990	1.90	0.16	2.34	0.13	67.1
154886		18.32	0.024	<0.005	<0.001	0.3	<0.001	0.39	7.48	44.7	740	1.63	0.16	2.32	0.11	71.7
154887		8.76	0.016	<0.005	<0.001	<0.2	<0.001	0.16	7.81	32.9	660	2.07	0.19	1.98	0.19	84.7
154888		15.04	0.041	<0.005	<0.001	0.2	<0.001	0.08	7.86	20.0	740	1.83	0.18	2.14	0.12	92.9
154889		16.38	0.010	<0.005	<0.001	0.3	<0.001	0.11	7.71	28.8	760	1.91	0.17	1.90	0.12	72.3
154890		12.70	0.021	<0.005	<0.001	0.3	<0.001	0.14	7.59	42.0	710	1.86	0.18	2.31	0.10	77.6
154891		14.62	0.012	<0.005	<0.001	<0.2	<0.001	0.15	7.62	33.0	750	1.72	0.17	2.44	0.13	81.3
154850A		5.72	0.041	<0.005	<0.001	0.3	<0.001	0.16	7.97	44.9	750	2.10	0.23	2.84	0.15	79.8





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**CERTIFICATE OF ANALYSIS RE20034549**

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	
		Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo
		ppm 0.1	ppm 1	ppm 0.05	ppm 0.2	% 0.01	ppm 0.05	ppm 0.05	ppm 0.1	ppm 0.005	% 0.01	ppm 0.5	ppm 0.2	% 0.01	ppm 5	ppm 0.05
154866		9.2	36	4.44	18.1	3.15	19.30	0.22	1.2	0.052	2.02	38.8	34.6	0.77	541	0.76
154867		9.3	37	5.07	16.6	3.02	19.90	0.20	1.2	0.050	2.13	36.8	33.9	0.83	525	0.78
154868		9.5	37	5.08	16.4	3.00	20.0	0.18	1.2	0.047	2.12	36.2	35.2	0.82	511	0.72
154869		8.9	34	4.82	14.9	2.87	18.95	0.18	1.2	0.043	2.15	32.9	34.2	0.79	493	0.71
154870		13.5	77	17.35	30.3	2.40	22.9	0.15	0.7	0.049	2.48	24.3	65.2	0.76	405	0.66
154871		10.1	40	5.56	18.6	3.52	21.5	0.20	1.5	0.052	2.24	41.2	44.3	0.89	594	0.92
154872		9.3	36	4.82	17.6	3.36	21.1	0.20	1.3	0.051	2.25	38.8	41.1	0.84	541	0.87
154873		9.8	40	6.05	17.6	3.46	20.9	0.19	1.3	0.052	2.21	37.1	39.4	0.87	544	0.82
154874		9.0	37	5.20	16.4	3.06	20.2	0.20	1.1	0.048	2.09	45.5	38.0	0.80	481	0.78
154875		74.3	1330	0.16	26.3	4.70	4.65	0.14	0.1	0.012	0.05	26.2	1.3	17.55	791	0.48
154876		8.9	35	6.09	17.3	3.09	20.8	0.19	1.5	0.049	2.26	35.9	32.8	0.85	515	0.91
154877		9.6	35	11.15	18.4	3.27	21.7	0.19	1.7	0.050	2.00	42.1	38.7	0.94	491	0.79
154878		10.9	42	5.59	21.0	3.76	20.6	0.23	1.3	0.055	2.20	44.1	37.0	1.06	562	0.86
154879		10.3	41	5.14	20.7	3.79	20.8	0.22	1.5	0.058	2.37	46.4	38.0	0.95	611	0.99
154880		10.3	44	5.65	18.9	3.05	20.1	0.19	1.2	0.046	2.23	35.9	55.9	0.73	551	0.79
154881		10.3	39	4.66	18.3	3.41	20.2	0.22	1.3	0.051	2.27	45.3	45.6	0.77	595	0.89
154882		10.0	36	5.92	20.1	3.40	21.7	0.20	1.4	0.052	2.09	40.1	51.5	1.01	532	0.76
154883		10.3	41	6.68	21.7	3.72	22.2	0.21	1.5	0.056	1.86	42.5	49.8	1.31	452	0.79
154884		10.2	41	5.56	18.5	3.35	20.7	0.22	1.7	0.048	2.45	43.6	41.7	1.04	581	0.81
154885		9.1	30	4.65	14.6	3.26	19.10	0.11	1.6	0.052	2.03	35.7	37.8	0.77	501	0.85
154886		8.7	32	3.14	15.6	2.77	16.50	0.12	1.0	0.055	1.95	38.5	39.8	0.89	493	0.84
154887		12.3	41	4.39	25.1	3.65	20.9	0.14	1.2	0.072	1.85	42.9	40.2	0.95	642	0.96
154888		8.6	29	3.24	16.8	3.12	18.75	0.14	1.1	0.062	2.00	48.6	31.7	0.70	527	0.91
154889		8.7	32	3.77	16.5	2.92	17.85	0.12	1.0	0.057	2.03	37.1	33.1	0.73	517	0.76
154890		9.3	38	3.83	18.5	3.44	17.95	0.12	1.0	0.061	1.96	41.8	34.3	0.78	550	0.78
154891		8.9	35	3.64	16.7	3.29	17.50	0.13	1.0	0.060	2.01	43.7	31.9	0.77	551	0.80
154850A		10.9	39	5.96	22.3	3.85	20.2	0.15	1.4	0.069	2.13	45.4	42.2	1.14	577	0.82



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Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	
		Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		% 0.01	ppm 0.1	ppm 0.2	ppm 10	ppm 0.5	ppm 0.1	ppm 0.002	% 0.01	ppm 0.05	ppm 0.1	ppm 1	ppm 0.2	ppm 0.2	ppm 0.05	ppm 0.05
154866		1.92	17.7	24.9	670	16.5	85.2	<0.002	0.02	11.05	8.8	1	2.1	377	1.23	<0.05
154867		2.10	17.3	26.0	700	16.0	86.5	<0.002	0.01	10.30	9.3	1	2.1	420	1.24	<0.05
154868		2.08	15.8	25.9	600	15.3	86.4	<0.002	0.01	10.10	9.3	1	2.0	413	1.09	<0.05
154869		2.12	15.0	24.0	640	14.8	81.4	<0.002	0.01	8.53	8.5	1	1.8	433	1.10	<0.05
154870		0.76	10.2	39.3	620	18.1	147.5	<0.002	0.10	264	14.8	1	2.2	188.0	0.65	<0.05
154871		2.25	17.3	25.9	830	16.3	87.4	<0.002	0.03	9.72	10.2	1	2.1	457	1.23	<0.05
154872		2.34	18.9	24.9	690	16.6	90.1	<0.002	0.01	8.90	10.1	1	2.2	454	1.35	<0.05
154873		2.15	16.6	27.0	660	15.9	88.8	<0.002	0.02	10.05	10.0	1	2.1	431	1.14	<0.05
154874		2.05	17.6	25.5	570	15.4	88.7	<0.002	0.01	9.19	9.5	1	2.1	389	1.21	<0.05
154875		0.26	1.5	1635	20	4.3	1.5	<0.002	0.01	0.86	9.0	<1	<0.2	43.2	<0.05	0.10
154876		2.25	16.1	22.6	480	16.4	86.7	<0.002	0.02	18.90	9.6	1	2.0	463	1.09	<0.05
154877		2.02	15.0	23.6	450	15.8	83.9	<0.002	0.01	9.14	9.8	1	2.0	457	1.08	<0.05
154878		1.62	15.6	28.8	970	16.9	90.8	<0.002	0.02	9.93	9.7	1	2.3	389	1.11	<0.05
154879		1.89	17.4	25.1	610	17.7	97.9	<0.002	0.01	6.57	10.5	1	2.3	362	1.19	<0.05
154880		1.78	19.8	25.8	530	19.7	98.5	<0.002	0.04	30.0	10.0	1	2.1	333	1.36	<0.05
154881		2.09	18.9	25.6	610	16.5	95.2	<0.002	0.02	13.00	10.2	1	2.2	391	1.34	<0.05
154882		1.65	16.7	26.7	840	16.6	87.5	<0.002	0.01	7.41	9.6	1	2.3	381	1.24	<0.05
154883		1.30	14.5	30.8	560	15.7	85.3	<0.002	0.01	8.26	10.7	1	2.3	335	0.97	0.05
154884		1.98	17.1	25.1	770	16.1	89.3	<0.002	0.02	7.11	9.8	1	2.1	448	1.18	<0.05
154885		2.13	13.7	21.6	670	14.7	78.1	<0.002	0.01	5.13	8.6	1	1.8	508	0.87	<0.05
154886		2.36	20.2	24.7	720	12.3	73.3	<0.002	0.01	9.65	9.2	1	1.9	470	1.52	<0.05
154887		1.78	17.8	33.2	1050	15.6	89.3	<0.002	0.01	7.78	13.2	1	2.3	348	1.12	<0.05
154888		2.25	18.2	22.2	650	13.9	81.3	<0.002	0.01	5.27	10.9	<1	2.2	414	1.12	<0.05
154889		2.18	16.4	25.1	650	14.2	82.0	<0.002	0.01	7.44	10.0	1	2.0	396	1.04	<0.05
154890		2.10	17.6	29.5	730	13.7	81.0	<0.002	0.01	8.98	10.8	1	2.1	379	1.12	<0.05
154891		2.15	17.8	25.6	870	13.8	78.3	<0.002	0.01	7.76	10.5	<1	2.1	406	1.18	<0.05
154850A		1.61	16.6	29.3	990	15.7	99.7	<0.002	0.02	9.55	11.3	1	2.4	345	1.12	<0.05



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Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Th	Ti	Tl	U	V	W	Y	Zn	Zr	Dy	Er	Eu	Gd	Ho
		ppm 0.01	% 0.005	ppm 0.02	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	ppm 0.05	ppm 0.03	ppm 0.03	ppm 0.05	ppm 0.01
154866		11.70	0.454	0.51	2.1	77	8.4	19.3	67	33.2	4.06	2.03	1.40	5.04	0.73
154867		11.85	0.443	0.50	2.3	72	9.0	18.7	69	35.0	4.05	2.01	1.38	5.05	0.72
154868		9.99	0.438	0.48	2.0	70	7.1	18.0	68	33.8	3.73	1.91	1.34	4.74	0.67
154869		9.74	0.420	0.44	2.1	68	6.3	16.3	64	34.0	3.43	1.74	1.21	4.31	0.61
154870		7.36	0.371	1.23	1.7	114	38.2	12.5	87	21.0	2.64	1.33	0.93	3.31	0.47
154871		13.35	0.489	0.48	2.3	81	7.7	18.8	78	41.1	4.02	2.03	1.39	5.07	0.71
154872		12.30	0.501	0.48	2.2	79	8.5	19.7	74	37.9	4.12	2.03	1.45	5.21	0.73
154873		13.95	0.465	0.52	2.2	79	8.0	18.4	76	36.5	3.84	1.96	1.32	4.76	0.68
154874		14.25	0.444	0.50	2.1	73	7.8	18.7	68	32.9	3.97	1.93	1.35	5.03	0.70
154875		1.53	0.031	0.02	0.2	44	0.2	2.0	46	2.0	0.52	0.21	0.57	1.27	0.08
154876		12.60	0.447	0.45	2.0	70	5.9	17.6	73	45.9	3.64	1.87	1.24	4.40	0.65
154877		16.20	0.426	0.44	2.2	70	4.8	17.0	76	51.7	3.59	1.80	1.20	4.61	0.64
154878		12.60	0.438	0.50	2.3	84	9.7	19.9	85	38.5	4.14	2.10	1.34	5.08	0.76
154879		17.00	0.502	0.54	2.6	85	14.3	20.4	83	42.8	4.33	2.17	1.38	5.45	0.78
154880		12.65	0.450	0.59	2.2	79	18.3	16.6	71	33.8	3.44	1.74	1.20	4.34	0.61
154881		18.75	0.508	0.52	2.5	83	12.5	20.2	73	37.4	4.16	2.07	1.45	5.26	0.76
154882		12.60	0.427	0.52	2.2	73	7.9	19.6	78	40.9	3.99	2.04	1.28	4.83	0.72
154883		11.75	0.371	0.47	2.0	78	7.9	20.0	82	43.3	3.83	1.98	1.16	4.51	0.70
154884		14.40	0.486	0.47	2.2	77	6.6	19.4	81	50.5	3.98	1.98	1.34	5.01	0.72
154885		9.02	0.431	0.49	1.9	75	6.2	16.6	73	49.2	3.08	1.68	1.16	3.73	0.56
154886		8.79	0.472	0.41	2.0	71	8.1	20.3	59	23.1	3.78	2.02	1.41	4.54	0.68
154887		12.40	0.477	0.51	2.3	84	7.7	23.6	81	31.1	4.42	2.27	1.63	5.40	0.80
154888		13.60	0.503	0.48	2.4	78	5.1	24.2	61	27.8	4.59	2.41	1.63	5.57	0.82
154889		11.05	0.470	0.49	2.0	72	6.4	20.4	63	27.6	4.07	2.09	1.45	4.77	0.72
154890		12.70	0.509	0.47	2.2	84	8.0	22.6	66	27.0	4.22	2.26	1.50	5.01	0.77
154891		13.85	0.511	0.47	2.5	81	7.7	22.2	66	26.2	4.19	2.26	1.56	5.12	0.76
154850A		12.60	0.464	0.62	2.3	82	16.9	21.5	90	39.0	4.05	2.12	1.38	4.81	0.73



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Account: KEERRG

# CERTIFICATE OF ANALYSIS RE20034549

Sample Description	Method Analyte Units LOD	ME-MS61r Nd ppm 0.1	ME-MS61r Pr ppm 0.03	ME-MS61r Sm ppm 0.03	ME-MS61r Tb ppm 0.01	ME-MS61r Tm ppm 0.01	ME-MS61r Yb ppm 0.03	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5
154866		35.2	9.30	6.44	0.73	0.29	1.88									
154867		33.5	8.94	6.38	0.72	0.28	1.83									
154868		32.6	8.50	6.05	0.67	0.27	1.71									
154869		30.0	7.80	5.49	0.61	0.24	1.58	<0.2	1.15	37	10	100	0.6	<2	0.96	<0.5
154870		21.9	5.90	4.46	0.46	0.19	1.22									
154871		36.1	9.59	6.67	0.72	0.29	1.88									
154872		36.5	9.49	6.86	0.72	0.29	1.85									
154873		33.4	8.64	6.14	0.67	0.27	1.75									
154874		37.5	9.95	6.73	0.70	0.27	1.81									
154875		15.5	4.35	2.56	0.13	0.03	0.20									
154876		31.4	8.34	5.86	0.63	0.26	1.77									
154877		33.7	9.21	6.07	0.64	0.26	1.69	0.2	1.48	24	10	140	0.8	<2	0.72	<0.5
154878		37.0	9.67	6.69	0.71	0.30	1.85									
154879		39.4	10.70	7.34	0.76	0.31	2.00									
154880		31.8	8.44	5.83	0.61	0.25	1.63									
154881		38.7	10.30	7.13	0.74	0.29	1.90									
154882		34.1	9.06	6.29	0.68	0.29	1.91	<0.2	1.99	26	10	130	1.1	<2	1.82	<0.5
154883		33.3	9.12	6.07	0.64	0.28	1.85									
154884		36.5	9.72	6.73	0.69	0.29	1.81									
154885		31.9	8.12	5.52	0.52	0.23	1.54									
154886		37.4	9.21	6.65	0.64	0.27	1.84									
154887		43.8	10.70	7.97	0.78	0.31	2.13									
154888		47.3	12.85	8.44	0.79	0.31	2.16									
154889		37.7	9.27	6.97	0.69	0.28	1.90									
154890		41.0	10.10	7.46	0.72	0.30	2.00									
154891		42.0	10.40	7.48	0.73	0.30	2.08									
154850A		41.0	10.35	7.14	0.70	0.29	1.95									



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CERTIFICATE OF ANALYSIS RE20034549

Sample Description	Method Analyte Units LOD	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10	Hg-MS42 Hg ppm 0.005	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2
154866 154867 154868 154869 154870		7	19	12	1.98	<10	0.029	0.44	10	0.50	305	<1	0.02	16	600	6
154871 154872 154873 154874 154875																
154876 154877 154878 154879 154880		7	17	14	2.20	10	0.052	0.39	20	0.61	314	1	0.02	16	380	6
154881 154882 154883 154884 154885		8	21	17	2.49	10	0.021	0.45	20	0.74	393	1	<0.01	19	740	8
154886 154887 154888 154889 154890																
154891 154850A																



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**CERTIFICATE OF ANALYSIS RE20034549**

Sample Description	Method Analyte Units LOD	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
154866 154867 154868 154869 154870		0.01	4	3	52	<20	0.04	<10	<10	34	<10	49
154871 154872 154873 154874 154875												
154876 154877 154878 154879 154880		<0.01	2	4	66	<20	0.04	<10	<10	37	<10	54
154881 154882 154883 154884 154885		<0.01	3	4	100	<20	0.03	<10	<10	40	<10	58
154886 154887 154888 154889 154890												
154891 154850A												



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**CERTIFICATE OF ANALYSIS RE20034549**

**CERTIFICATE COMMENTS**

**ANALYTICAL COMMENTS**

Applies to Method: REE's may not be totally soluble in this method.  
ME-MS61r

**LABORATORY ADDRESSES**

Applies to Method: Processed at ALS Reno located at 4977 Energy Way, Reno, NV, USA.  
DRY-22 LOG-22 LOG-24 SCR-41  
SND-ALS WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Ag-AA45 Hg-MS42 ME-ICP41 ME-MS61r  
PGM-ICP23 Rh-MS25