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

Page: 1  
Total # Pages: 4 (A - E)  
Plus Appendix Pages  
Finalized Date: 8-JAN-2020  
Account: KEERRG

## CERTIFICATE RE19312060

This report is for 97 Soil samples submitted to our lab in Reno, NV, USA on 9-DEC-2019.

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
DRY-22	Drying - Maximum Temp 60C
SND-ALS	Send samples to internal laboratory
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both
LOG-24	Pulp Login - Rcd w/o Barcode
CRU-31	Fine crushing - 70% <2mm
PUL-31	Pulverize up to 250g 85% <75 um
SPL-21	Split sample - riffle splitter
LOG-22d	Sample login - Rcd w/o BarCode dup

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Rh-MS25	Rh 30g FA ICP-MS	ICP-MS
Ag-AA45	Trace Ag - aqua regia/AAS	AAS
ME-MS61r	4A multi-element ICP-MS + REE	
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES

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 RE19312060

Sample Description	Method Analyte Units LOD	WEI-21	PGM-ICP23	PGM-ICP23	PGM-ICP23	Rh-MS25	Ag-AA45	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	Rh ppm	Ag 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	0.001	0.2	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01
157201		2.74	0.020	<0.005	0.001	<0.001	<0.2	0.25	6.95	24.1	750	1.59	0.14	3.12	0.08	54.6
157202		1.70	0.035	<0.005	0.002	<0.001	<0.2	0.14	6.70	29.3	670	1.57	0.17	9.57	0.14	54.1
157203		5.70	0.002	<0.005	<0.001	<0.001	<0.2	0.12	8.31	9.3	990	1.74	0.16	2.17	0.13	62.2
157204		5.30	0.007	<0.005	0.001	<0.001	<0.2	0.11	8.43	21.0	910	2.03	0.17	2.10	0.14	80.2
157205		3.86	0.026	<0.005	<0.001	<0.001	<0.2	0.13	8.19	43.0	870	1.84	0.18	2.12	0.11	76.9
157206		6.00	0.019	<0.005	0.001	<0.001	<0.2	0.21	8.15	48.5	850	1.91	0.19	2.04	0.12	74.2
157207		5.00	0.038	<0.005	0.001	<0.001	0.9	1.18	7.79	73.2	810	1.80	0.20	1.67	0.14	72.5
157208		3.34	0.005	<0.005	0.001	<0.001	<0.2	0.08	8.26	25.5	780	1.83	0.19	1.97	0.17	86.1
157209		7.38	0.013	<0.005	<0.001	<0.001	<0.2	0.10	7.67	41.3	770	1.76	0.20	2.06	0.13	88.1
157210		6.00	0.009	<0.005	0.001	<0.001	<0.2	0.09	7.85	27.4	780	1.79	0.19	1.77	0.13	86.8
157211		5.88	0.006	<0.005	0.001	<0.001	<0.2	0.11	8.12	29.1	820	1.90	0.19	1.87	0.18	89.2
157212		6.08	0.053	<0.005	0.002	<0.001	<0.2	0.13	8.36	38.1	810	2.00	0.20	1.94	0.10	87.5
157213		6.46	0.009	<0.005	0.002	<0.001	<0.2	0.12	8.20	32.6	880	1.93	0.19	1.88	0.14	76.3
157214		7.58	0.008	<0.005	<0.001	<0.001	<0.2	0.11	8.26	30.6	890	1.99	0.19	2.31	0.13	97.1
157215		0.06	0.023	0.044	0.226	0.001	<0.2	0.04	3.85	3.7	40	<0.05	0.18	2.51	0.03	47.8
157216		9.30	0.003	<0.005	0.001	<0.001	<0.2	0.19	8.61	28.8	1020	2.01	0.14	1.44	0.09	55.6
157217		8.34	0.005	<0.005	<0.001	<0.001	<0.2	0.19	7.77	25.0	1000	1.68	0.11	3.06	0.07	50.4
157218		1.16	<0.001	<0.005	<0.001	<0.001	<0.2	0.02	9.27	5.2	120	0.64	0.33	10.50	0.17	21.7
157219		5.58	0.004	<0.005	0.002	<0.001	<0.2	0.09	8.24	8.3	980	1.70	0.15	2.36	0.11	63.7
157220		4.62	0.003	<0.005	<0.001	<0.001	<0.2	0.10	8.59	14.2	1000	1.89	0.18	2.43	0.19	66.2
157221		7.52	0.004	<0.005	0.001	<0.001	<0.2	0.08	8.41	8.8	1040	1.86	0.14	2.44	0.12	68.5
157222		2.78	0.028	<0.005	<0.001	<0.001	<0.2	0.10	7.85	32.5	790	1.76	0.18	2.33	0.13	79.2
157251		1.84	0.191	<0.005	0.001	<0.001	0.3	0.51	5.28	97.3	510	1.25	0.17	5.13	0.10	44.6
157252		1.74	0.029	<0.005	0.001	<0.001	<0.2	0.34	1.90	56.5	550	0.50	0.07	18.80	0.11	17.25
157253		1.64	0.052	<0.005	0.001	<0.001	<0.2	0.22	5.59	42.1	620	1.35	0.15	6.72	0.11	45.8
157254		2.74	0.013	<0.005	0.001	<0.001	<0.2	0.09	7.67	18.4	930	1.88	0.17	2.55	0.08	72.1
157255		1.90	0.089	<0.005	<0.001	<0.001	<0.2	0.20	7.85	8.6	760	2.37	0.17	2.15	0.13	83.9
157256		2.20	0.013	<0.005	0.001	<0.001	<0.2	0.09	8.17	9.6	1130	1.80	0.13	2.56	0.10	51.1
157257		2.76	0.055	<0.005	0.001	<0.001	<0.2	0.16	8.44	12.8	1150	1.86	0.14	2.09	0.10	57.6
157258		1.76	0.046	<0.005	0.001	<0.001	<0.2	0.09	8.50	9.3	1040	1.95	0.13	2.10	0.08	55.9
157259		2.48	0.039	<0.005	0.001	<0.001	<0.2	0.09	8.47	7.8	980	2.10	0.14	2.22	0.08	59.6
157260		2.88	0.016	<0.005	<0.001	<0.001	<0.2	0.08	8.55	9.1	1010	1.89	0.12	2.28	0.08	59.9
157261		2.28	0.054	<0.005	0.001	<0.001	<0.2	0.09	8.56	9.6	960	1.99	0.14	2.18	0.10	64.3
157262		2.18	0.049	<0.005	0.001	<0.001	<0.2	0.09	8.32	9.4	950	1.94	0.13	2.15	0.08	53.5
157263		2.34	0.046	<0.005	<0.001	<0.001	<0.2	0.10	7.97	7.6	970	1.78	0.12	2.29	0.10	55.3
157264		1.90	0.030	<0.005	0.001	<0.001	<0.2	0.10	7.79	9.2	980	1.96	0.14	2.80	0.11	64.6
157265		2.22	0.034	<0.005	0.001	<0.001	<0.2	0.08	8.17	10.3	910	2.02	0.14	2.39	0.09	65.9
157266		2.62	0.018	<0.005	0.001	<0.001	0.2	0.08	8.28	11.9	880	2.32	0.17	2.38	0.13	73.6
157267		1.80	0.025	<0.005	0.001	<0.001	<0.2	0.09	8.14	13.6	990	1.97	0.14	2.37	0.11	57.9
157268		2.38	0.016	<0.005	0.001	<0.001	<0.2	0.11	7.30	11.0	880	1.73	0.13	4.56	0.08	47.9



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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	
		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
157201		8.0	38	3.60	15.4	2.40	17.20	0.19	0.9	0.044	1.99	26.1	48.0	1.03	719	0.75
157202		12.4	56	5.19	31.3	3.20	18.00	0.18	1.0	0.051	1.92	26.9	69.8	1.78	438	0.56
157203		8.5	29	3.53	12.7	2.71	20.1	0.17	1.8	0.036	2.21	30.9	36.1	0.85	528	0.76
157204		9.6	33	4.94	16.0	3.03	21.7	0.20	1.7	0.050	2.41	40.4	42.3	0.97	572	0.76
157205		9.3	39	4.69	15.6	3.09	20.5	0.20	1.2	0.049	2.26	38.2	35.8	0.84	539	0.79
157206		9.0	37	4.59	15.2	2.94	20.1	0.18	1.2	0.046	2.21	36.4	34.9	0.78	542	0.76
157207		9.8	39	4.45	17.2	3.15	19.15	0.20	1.2	0.041	2.20	35.8	38.4	0.73	583	0.93
157208		10.2	42	3.53	21.9	3.45	21.0	0.19	1.0	0.062	2.07	42.6	37.5	0.92	617	1.09
157209		8.8	42	3.54	17.4	3.26	18.85	0.20	1.0	0.056	2.02	43.4	30.1	0.84	554	1.00
157210		9.3	40	3.78	17.7	3.19	19.65	0.21	1.1	0.050	2.12	43.2	34.7	0.78	577	1.10
157211		9.6	42	3.76	18.5	3.22	19.95	0.21	1.1	0.049	2.16	43.4	36.1	0.77	626	1.21
157212		9.6	41	5.46	18.3	3.49	21.4	0.21	1.4	0.051	2.19	44.6	39.1	1.00	514	0.82
157213		9.3	38	4.90	16.2	3.13	20.8	0.18	1.3	0.049	2.28	38.0	37.4	0.84	588	0.97
157214		9.4	38	4.56	16.0	3.19	21.2	0.21	1.5	0.048	2.32	49.4	35.5	0.84	564	1.09
157215		86.8	1420	0.16	27.4	5.00	5.04	0.12	0.1	0.013	0.05	26.8	1.7	18.45	866	0.46
157216		9.8	29	5.13	14.5	2.72	22.7	0.17	2.0	0.040	2.28	26.7	48.3	0.90	514	0.83
157217		9.3	27	3.93	13.0	2.66	20.5	0.17	1.8	0.037	2.06	24.8	38.1	0.85	477	0.71
157218		14.4	5	0.19	21.3	7.00	24.9	0.13	0.8	0.202	0.39	11.1	8.1	1.88	1240	1.23
157219		8.9	32	3.30	12.7	2.95	20.9	0.18	1.9	0.044	2.13	31.4	35.0	0.88	507	0.83
157220		9.5	34	3.75	14.7	3.09	21.7	0.19	2.0	0.048	2.16	33.0	38.8	0.93	536	0.82
157221		9.6	33	3.44	13.9	2.95	22.2	0.18	2.1	0.046	2.13	34.7	37.0	0.88	541	0.80
157222		8.8	39	3.51	16.8	2.86	19.15	0.18	0.9	0.048	2.12	37.9	34.0	0.80	525	0.88
157251		6.6	32	2.92	14.1	2.04	13.15	0.17	0.7	0.031	1.49	21.9	99.3	0.85	298	1.66
157252		3.4	15	1.29	6.1	0.87	4.88	0.15	0.3	0.014	0.61	8.0	94.7	0.96	365	2.15
157253		9.7	40	3.82	16.1	2.49	14.95	0.17	0.7	0.040	1.61	23.2	112.5	1.52	431	2.37
157254		8.2	38	5.32	13.8	2.92	20.3	0.18	1.5	0.038	1.99	35.9	55.6	0.80	507	1.66
157255		8.0	26	4.60	11.6	2.56	22.2	0.20	2.9	0.063	1.90	41.1	49.8	0.91	447	0.92
157256		9.9	31	3.57	13.8	2.77	21.8	0.18	2.4	0.038	1.81	24.3	40.9	1.03	520	0.87
157257		9.1	29	3.57	13.8	2.66	22.4	0.15	2.3	0.040	2.01	27.8	39.9	0.88	435	0.81
157258		8.7	28	4.91	13.2	2.77	21.9	0.17	2.0	0.044	2.05	27.0	41.2	1.03	485	0.51
157259		9.0	31	4.46	12.9	2.79	22.8	0.18	2.2	0.048	2.13	30.4	43.8	0.84	608	0.82
157260		8.9	28	4.00	11.2	2.62	21.3	0.19	1.9	0.040	1.99	30.2	39.1	0.84	495	0.72
157261		9.8	30	4.97	15.5	2.95	22.0	0.17	2.1	0.044	2.10	31.8	41.2	1.09	530	0.76
157262		10.3	31	4.64	16.9	3.05	23.0	0.16	2.4	0.046	1.95	25.2	44.3	1.08	509	0.64
157263		9.5	30	3.58	13.2	2.82	20.9	0.15	2.2	0.038	1.85	27.3	40.4	0.87	509	0.63
157264		10.0	29	4.09	13.8	2.86	21.3	0.16	2.0	0.044	1.91	30.4	40.6	0.90	513	0.69
157265		9.4	28	4.32	13.9	2.87	21.1	0.13	1.8	0.049	2.05	32.3	39.3	0.94	526	0.62
157266		10.9	31	4.90	14.0	3.21	22.8	0.17	2.0	0.053	2.04	33.1	41.7	0.94	760	0.83
157267		9.6	29	4.42	13.9	2.80	21.3	0.15	1.8	0.040	2.05	28.0	43.2	0.89	549	0.67
157268		7.5	26	3.75	11.4	2.42	18.80	0.17	1.7	0.035	1.83	24.8	36.6	0.81	373	0.55



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		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
157201		2.19	12.4	24.8	500	11.6	66.8	0.002	0.01	9.42	7.8	1	1.6	501	0.93	<0.05
157202		1.24	10.5	37.6	500	12.0	86.4	0.002	0.02	8.95	9.6	1	1.7	1005	0.73	<0.05
157203		2.40	12.7	18.0	630	16.8	73.6	0.002	0.01	2.86	7.5	1	1.7	557	0.90	<0.05
157204		2.20	14.9	21.8	680	16.1	90.0	0.002	0.01	4.68	9.0	1	1.9	489	1.03	<0.05
157205		2.31	16.3	26.0	670	16.9	85.7	0.002	0.01	8.79	9.2	1	2.0	455	1.12	<0.05
157206		2.33	16.5	25.7	630	16.0	84.5	<0.002	0.01	9.56	8.7	1	2.0	463	1.12	<0.05
157207		2.03	16.7	23.9	640	15.5	91.0	<0.002	0.02	15.20	8.9	1	2.1	382	1.19	<0.05
157208		2.22	18.0	28.6	890	14.2	86.6	<0.002	0.01	6.04	11.5	1	2.2	396	1.19	<0.05
157209		2.26	18.0	27.5	810	14.3	79.1	0.002	0.01	8.99	9.7	1	2.1	399	1.35	<0.05
157210		2.20	17.5	24.9	630	14.3	85.9	0.002	0.01	7.47	9.6	1	2.1	390	1.24	<0.05
157211		2.35	19.1	26.0	750	15.3	85.4	0.003	0.01	7.14	9.9	1	2.2	424	1.26	<0.05
157212		1.92	16.3	26.5	520	16.1	91.1	0.003	0.01	8.75	9.6	<1	2.1	385	1.11	<0.05
157213		2.30	17.3	22.7	630	17.2	90.2	0.002	0.01	7.23	9.3	<1	2.1	452	1.25	<0.05
157214		2.37	17.8	22.6	820	16.1	89.2	0.003	0.01	6.52	9.2	1	2.1	480	1.25	<0.05
157215		0.27	1.5	1780	20	4.5	1.3	0.002	0.02	0.82	10.4	<1	<0.2	45.4	<0.05	0.17
157216		2.02	10.5	19.8	710	19.7	85.8	<0.002	0.01	3.88	7.4	1	1.7	482	0.73	<0.05
157217		1.93	10.3	18.5	680	16.9	62.9	0.002	0.01	3.23	7.3	1	1.5	495	0.71	<0.05
157218		1.00	4.4	3.0	250	6.5	11.0	0.002	<0.01	3.07	29.1	1	1.2	1055	0.43	<0.05
157219		2.41	18.5	19.3	550	16.3	72.2	0.002	0.01	2.57	8.3	1	1.8	569	1.60	<0.05
157220		2.45	14.3	21.5	550	18.8	76.3	0.002	0.01	3.05	8.8	1	1.8	578	0.99	<0.05
157221		2.45	14.2	21.4	640	16.6	74.1	0.002	0.01	2.64	8.5	<1	1.8	596	0.95	<0.05
157222		2.38	18.2	26.0	630	14.5	82.9	<0.002	0.01	7.75	9.6	1	2.0	437	1.32	<0.05
157251		>10.0	8.7	18.0	430	18.3	57.6	0.002	0.16	6.42	6.3	1	1.9	642	0.62	<0.05
157252		6.45	3.1	7.8	290	8.6	24.8	0.002	0.13	2.65	2.4	3	0.6	1570	0.23	<0.05
157253		7.07	8.8	27.8	690	10.4	68.2	0.003	0.25	6.71	7.9	1	1.6	740	0.60	<0.05
157254		2.48	17.8	16.4	840	14.6	82.0	0.002	0.02	5.06	7.0	1	1.9	606	1.51	<0.05
157255		2.01	21.2	16.8	480	17.3	82.3	<0.002	0.03	3.00	7.3	1	2.8	518	1.40	<0.05
157256		2.29	8.9	21.4	810	16.6	56.3	0.002	0.04	2.38	7.6	1	1.6	669	0.64	<0.05
157257		2.23	10.1	19.4	690	17.5	66.2	0.002	0.01	2.71	7.5	1	1.6	592	0.72	<0.05
157258		2.08	10.6	20.0	620	14.9	75.8	0.002	0.01	2.97	8.3	1	1.6	566	0.76	<0.05
157259		2.33	33.7	20.1	880	15.8	111.0	0.002	0.01	2.44	8.2	1	2.4	570	5.02	<0.05
157260		2.41	11.7	18.9	540	15.2	68.8	<0.002	<0.01	2.77	7.6	1	1.5	616	0.89	<0.05
157261		2.08	12.1	20.6	740	15.5	76.5	<0.002	0.01	2.97	8.7	<1	1.7	549	0.88	<0.05
157262		1.89	9.9	22.5	620	15.9	68.7	0.002	0.01	2.48	9.1	<1	1.7	536	0.74	<0.05
157263		2.16	9.6	19.4	770	15.3	58.7	0.003	0.01	2.49	8.0	1	1.6	581	0.71	<0.05
157264		2.04	12.1	20.0	550	15.3	70.2	0.002	0.01	2.76	8.8	1	1.9	529	0.89	<0.05
157265		2.11	12.6	17.9	530	15.0	78.5	0.002	0.01	2.92	8.9	1	1.8	537	0.90	<0.05
157266		2.11	16.1	20.3	680	18.8	84.3	<0.002	0.01	2.97	9.3	1	2.1	515	1.15	<0.05
157267		2.09	12.1	19.2	660	15.8	75.8	<0.002	0.01	2.70	8.7	1	1.8	519	0.87	<0.05
157268		2.10	11.4	16.0	620	13.4	58.5	<0.002	0.02	2.66	7.4	1	1.6	549	0.84	<0.05



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# CERTIFICATE OF ANALYSIS RE19312060

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
157201		8.14	0.382	0.44	2.0	62	9.9	14.5	60	25.9	2.75	1.37	0.97	3.52	0.52
157202		8.32	0.365	0.51	3.2	81	6.4	15.6	91	29.2	2.74	1.40	0.92	3.35	0.54
157203		8.34	0.425	0.41	1.7	64	2.3	16.0	68	58.3	2.96	1.53	1.12	3.73	0.57
157204		11.75	0.443	0.47	2.0	70	4.5	18.5	78	54.8	3.47	1.76	1.21	4.49	0.69
157205		15.65	0.480	0.48	2.3	75	6.8	19.4	72	37.4	3.75	1.91	1.34	4.65	0.71
157206		10.45	0.458	0.50	2.0	71	7.2	18.6	68	35.9	3.61	1.79	1.31	4.60	0.68
157207		11.35	0.475	0.51	2.2	77	12.7	18.6	72	35.6	3.49	1.83	1.22	4.44	0.69
157208		12.05	0.519	0.44	2.4	87	6.3	23.2	79	27.3	4.25	2.19	1.53	5.43	0.84
157209		14.40	0.523	0.44	2.4	84	7.1	22.1	67	26.9	4.16	2.07	1.49	5.17	0.80
157210		14.00	0.497	0.45	2.5	79	5.8	20.9	72	32.3	3.99	1.99	1.41	5.04	0.76
157211		11.60	0.530	0.48	2.6	82	6.4	22.0	72	30.7	4.05	2.02	1.51	5.29	0.79
157212		14.60	0.452	0.48	2.1	81	7.1	20.2	77	40.9	3.71	1.90	1.33	4.98	0.73
157213		11.45	0.457	0.49	2.1	73	6.4	18.8	73	42.8	3.66	1.77	1.31	4.68	0.70
157214		17.10	0.490	0.48	2.3	78	6.1	21.5	73	43.8	4.12	1.98	1.38	5.56	0.77
157215		1.56	0.033	0.04	0.3	46	0.2	2.1	51	2.0	0.54	0.22	0.57	1.31	0.09
157216		6.03	0.368	0.51	1.3	58	4.1	12.3	78	64.5	2.33	1.20	0.91	3.03	0.44
157217		7.18	0.406	0.43	1.6	59	2.4	13.6	71	59.8	2.58	1.25	0.99	3.41	0.51
157218		7.33	0.449	0.08	7.1	356	10.9	10.2	56	15.5	1.76	1.02	0.67	1.82	0.38
157219		10.05	0.470	0.38	1.8	71	2.6	16.0	71	61.6	3.06	1.58	1.14	3.81	0.59
157220		8.29	0.468	0.40	1.8	74	3.7	16.6	79	63.8	3.07	1.54	1.14	3.89	0.59
157221		8.54	0.458	0.39	1.9	71	3.1	17.4	72	71.2	3.19	1.59	1.23	4.01	0.64
157222		10.90	0.508	0.43	2.1	76	6.4	21.5	65	26.7	4.04	2.07	1.42	5.07	0.79
157251		6.76	0.255	0.32	3.5	49	4.8	10.8	54	22.5	2.13	1.04	0.69	2.63	0.41
157252		2.39	0.093	0.14	5.1	22	4.1	4.4	23	9.4	0.85	0.42	0.27	1.01	0.16
157253		6.46	0.287	0.40	3.3	60	7.8	12.2	70	20.3	2.33	1.20	0.79	2.77	0.45
157254		12.25	0.367	0.44	1.8	68	5.6	17.0	71	50.5	3.12	1.47	1.04	4.21	0.59
157255		11.70	0.355	0.46	2.3	55	3.5	24.2	75	89.8	4.46	2.38	1.03	5.09	0.88
157256		5.37	0.350	0.33	1.4	59	2.6	13.4	76	83.6	2.49	1.30	0.96	3.21	0.49
157257		5.86	0.375	0.39	1.5	57	2.5	13.2	72	80.6	2.42	1.15	0.96	3.14	0.47
157258		7.22	0.363	0.40	1.7	59	3.4	13.2	78	67.6	2.47	1.27	0.94	3.17	0.48
157259		7.38	0.400	0.57	1.8	63	3.3	16.2	75	73.8	2.98	1.46	1.07	3.89	0.56
157260		7.14	0.413	0.38	1.6	62	2.9	13.8	66	65.1	2.61	1.32	1.07	3.37	0.52
157261		8.09	0.373	0.40	1.9	66	3.2	16.2	77	67.6	3.01	1.54	1.07	3.90	0.61
157262		7.24	0.338	0.40	1.6	61	2.9	13.4	85	78.0	2.48	1.29	0.90	3.12	0.47
157263		6.34	0.374	0.34	1.7	62	2.2	14.3	74	74.1	2.54	1.27	0.95	3.11	0.48
157264		10.30	0.411	0.39	2.2	67	2.6	15.7	72	66.2	2.91	1.49	1.02	3.50	0.53
157265		7.75	0.400	0.42	1.8	66	3.0	14.2	73	58.7	2.69	1.33	1.00	3.26	0.50
157266		11.35	0.445	0.44	2.5	76	2.6	16.7	81	63.2	3.09	1.62	1.08	3.77	0.57
157267		7.69	0.405	0.44	1.8	65	3.2	14.6	78	60.4	2.75	1.40	0.96	3.23	0.51
157268		8.10	0.387	0.37	2.3	58	2.6	14.4	65	55.2	2.73	1.42	0.98	3.22	0.51



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**CERTIFICATE OF ANALYSIS RE19312060**

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Nd	Pr	Sm	Tb	Tm	Yb
		ppm 0.1	ppm 0.03	ppm 0.03	ppm 0.01	ppm 0.01	ppm 0.03
157201		24.1	6.42	4.91	0.50	0.20	1.24
157202		22.5	6.09	4.53	0.49	0.21	1.28
157203		26.0	6.98	5.19	0.55	0.22	1.36
157204		32.7	8.92	6.40	0.65	0.26	1.55
157205		32.2	8.91	6.27	0.70	0.27	1.64
157206		31.5	8.47	6.36	0.67	0.26	1.60
157207		30.7	8.30	5.97	0.66	0.26	1.58
157208		37.3	10.70	7.37	0.80	0.32	1.90
157209		37.0	11.00	7.23	0.76	0.30	1.83
157210		36.1	10.50	6.92	0.74	0.28	1.77
157211		37.3	11.05	7.28	0.76	0.30	1.78
157212		36.4	10.25	6.84	0.71	0.26	1.61
157213		32.1	8.94	6.33	0.68	0.26	1.59
157214		39.4	11.60	7.69	0.78	0.28	1.78
157215		15.5	4.45	2.59	0.14	0.03	0.19
157216		21.5	5.80	4.20	0.44	0.17	1.04
157217		22.6	5.99	4.48	0.49	0.18	1.14
157218		9.3	2.40	2.06	0.29	0.16	1.03
157219		26.4	7.13	5.21	0.55	0.22	1.37
157220		27.1	7.38	5.38	0.56	0.22	1.37
157221		27.7	7.54	5.50	0.60	0.24	1.48
157222		34.4	9.19	6.77	0.76	0.30	1.80
157251		17.9	4.91	3.52	0.38	0.15	0.95
157252		6.8	1.81	1.33	0.15	0.06	0.42
157253		18.8	5.11	3.77	0.41	0.16	1.09
157254		29.3	7.99	5.76	0.61	0.22	1.33
157255		32.3	8.95	6.42	0.80	0.35	2.12
157256		20.7	5.53	4.11	0.47	0.18	1.13
157257		21.9	5.95	4.27	0.45	0.17	1.04
157258		21.8	5.92	4.21	0.45	0.18	1.12
157259		24.5	6.65	5.05	0.55	0.21	1.28
157260		23.6	6.48	4.59	0.49	0.19	1.16
157261		25.9	7.03	5.04	0.57	0.22	1.39
157262		21.1	5.77	4.19	0.46	0.19	1.13
157263		22.4	6.19	4.30	0.48	0.19	1.17
157264		25.7	7.14	5.05	0.54	0.21	1.34
157265		25.0	6.98	4.79	0.49	0.19	1.24
157266		28.3	7.80	5.55	0.58	0.23	1.48
157267		23.5	6.56	4.63	0.49	0.20	1.26
157268		21.9	5.93	4.50	0.48	0.21	1.26



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# CERTIFICATE OF ANALYSIS RE19312060

Sample Description	Method Analyte Units LOD	WEI-21	PGM-ICP23	PGM-ICP23	PGM-ICP23	Rh-MS25	Ag-AA45	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	Rh ppm	Ag 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	0.001	0.2	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01
157269		1.52	0.026	<0.005	0.001	<0.001	<0.2	0.16	8.08	11.7	1300	2.13	0.15	2.60	0.12	59.9
157270		1.20	0.150	<0.005	<0.001	<0.001	<0.2	0.26	8.31	18.3	1230	1.81	0.14	2.38	0.12	61.3
157271		2.36	0.008	<0.005	0.001	<0.001	<0.2	0.08	7.40	13.8	740	2.00	0.15	3.09	0.11	44.6
157272		2.34	0.062	<0.005	<0.001	<0.001	<0.2	0.14	8.48	11.8	940	2.01	0.17	2.56	0.11	59.9
157273		2.10	0.111	<0.005	<0.001	<0.001	0.3	0.15	8.23	7.7	910	2.00	0.14	2.25	0.07	64.3
157274		2.28	0.032	<0.005	0.001	<0.001	<0.2	0.13	8.42	7.5	950	1.94	0.13	2.32	0.08	64.7
157275		1.96	0.036	<0.005	<0.001	<0.001	<0.2	0.11	8.31	12.1	900	1.99	0.14	2.09	0.09	62.2
157276		2.30	0.094	<0.005	0.001	<0.001	0.2	0.16	8.35	13.0	820	2.08	0.16	1.88	0.12	63.3
157277		1.78	0.074	<0.005	0.001	<0.001	<0.2	0.12	8.27	11.3	890	2.05	0.15	2.06	0.10	61.2
157278		2.04	0.095	<0.005	0.001	<0.001	<0.2	0.13	8.15	10.2	880	2.11	0.17	2.46	0.11	56.5
157279		2.24	0.036	<0.005	0.001	<0.001	<0.2	0.13	8.23	12.7	1030	2.08	0.15	2.49	0.13	67.1
157280		2.18	0.018	<0.005	0.001	<0.001	<0.2	0.08	8.31	8.1	1340	1.83	0.13	2.70	0.08	61.2
157281		2.12	0.007	<0.005	0.001	<0.001	0.2	0.08	7.78	8.5	1000	2.48	0.17	2.35	0.08	55.6
157282		2.06	0.018	<0.005	<0.001	<0.001	<0.2	0.09	7.91	11.9	1250	2.03	0.14	2.58	0.09	56.6
157283		2.30	0.013	<0.005	0.001	<0.001	<0.2	0.11	7.51	12.8	1020	1.70	0.12	3.72	0.12	52.9
157284		2.14	0.015	<0.005	0.001	<0.001	0.2	0.19	7.77	15.9	1100	1.95	0.16	3.06	0.11	53.9
157285		2.18	0.010	<0.005	0.001	<0.001	0.2	0.16	8.29	18.0	1100	1.84	0.14	2.39	0.13	63.2
155851		11.02	0.016	<0.005	0.001	<0.001	0.2	0.15	7.49	24.0	820	1.76	0.16	3.58	0.11	72.2
155852		6.76	0.043	<0.005	0.001	<0.001	0.2	0.27	6.58	30.2	660	1.56	0.14	6.19	0.13	57.7
155853		9.16	0.028	<0.005	0.001	<0.001	<0.2	0.12	7.38	31.3	870	1.79	0.15	3.75	0.11	66.0
155854		7.00	0.023	<0.005	<0.001	<0.001	0.3	0.22	7.73	27.7	760	1.81	0.15	2.16	0.11	62.6
155855		10.14	0.018	<0.005	<0.001	<0.001	0.6	0.58	7.10	14.5	790	1.75	0.12	2.08	0.05	56.8
155856		7.80	0.045	<0.005	0.001	<0.001	<0.2	0.13	6.61	41.1	680	1.53	0.16	6.06	0.13	64.1
155857		5.42	0.023	<0.005	0.002	<0.001	<0.2	0.20	6.96	30.9	670	1.78	0.18	4.38	0.14	55.9
155858		14.88	0.006	<0.005	0.001	<0.001	<0.2	0.14	6.37	14.3	800	1.56	0.11	4.51	0.06	56.4
155859		9.36	0.008	<0.005	0.001	<0.001	<0.2	0.11	3.52	17.1	530	0.75	0.07	16.80	0.10	30.2
155860		8.08	0.009	<0.005	0.002	<0.001	<0.2	0.11	3.69	19.7	530	0.82	0.07	16.80	0.10	31.5
155862		11.52	0.009	<0.005	0.001	<0.001	0.2	0.28	5.24	26.7	570	1.25	0.11	10.75	0.19	41.5
155863		6.34	0.020	<0.005	0.001	<0.001	<0.2	0.16	6.85	45.7	600	1.67	0.17	5.55	0.14	56.3
155864		7.70	0.007	<0.005	0.001	<0.001	0.4	0.41	6.86	19.0	850	1.67	0.17	4.70	0.11	63.3
155865		12.14	0.009	<0.005	0.003	<0.001	<0.2	0.13	7.41	13.8	940	1.85	0.13	2.92	0.06	58.9
155866		10.98	0.020	<0.005	0.001	<0.001	<0.2	0.13	6.99	18.3	780	1.72	0.14	4.47	0.08	47.9
155867		13.74	0.008	<0.005	0.001	<0.001	<0.2	0.11	7.70	11.3	1060	1.71	0.12	2.62	0.05	52.0
155869		4.42	0.013	<0.005	0.001	<0.001	0.2	0.24	6.09	43.7	590	1.48	0.17	8.16	0.19	51.1
155870		3.76	0.007	<0.005	0.001	<0.001	<0.2	0.20	5.48	30.3	550	1.37	0.15	11.25	0.19	46.2
155871		4.98	0.011	<0.005	0.001	<0.001	<0.2	0.11	5.65	26.7	610	1.37	0.14	10.30	0.14	49.0
155872		8.20	0.003	<0.005	0.001	<0.001	<0.2	0.12	6.29	21.6	660	1.46	0.14	6.77	0.12	54.8
155873		7.72	0.025	<0.005	0.001	<0.001	<0.2	0.10	7.43	26.0	610	2.02	0.19	3.57	0.14	64.3
155874		8.60	0.008	<0.005	0.002	<0.001	<0.2	0.06	7.77	26.5	620	2.31	0.24	3.46	0.17	67.1
155875		0.06	0.054	<0.005	0.001	<0.001	<0.2	0.07	4.99	6.0	400	2.15	0.19	4.47	0.11	23.6



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Finalized Date: 8-JAN-2020  
Account: KEERRG

# CERTIFICATE OF ANALYSIS RE19312060

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
157269		10.2	30	4.99	15.7	3.13	22.2	0.17	2.0	0.050	1.98	27.7	42.8	1.07	533	0.66
157270		8.6	28	3.94	13.6	2.81	21.3	0.18	1.9	0.044	2.10	30.6	35.9	0.83	488	0.74
157271		13.2	31	4.84	19.5	3.17	22.5	0.15	2.4	0.050	1.41	15.6	90.7	1.35	659	0.52
157272		10.5	34	4.75	16.4	3.40	22.5	0.13	2.2	0.049	1.77	27.3	63.2	1.17	443	0.55
157273		8.2	31	5.23	13.9	2.88	22.0	0.17	2.1	0.047	1.87	30.0	53.7	1.09	367	0.47
157274		9.0	30	4.10	12.4	2.86	20.9	0.16	2.0	0.047	2.00	32.6	47.8	0.93	474	0.56
157275		9.6	29	5.08	14.0	2.78	22.1	0.17	1.9	0.041	2.03	30.8	46.2	1.02	425	0.58
157276		10.9	35	5.92	19.1	3.43	23.2	0.15	2.1	0.052	2.01	27.2	52.3	1.20	506	0.63
157277		10.2	30	5.49	17.3	3.06	22.5	0.16	2.0	0.049	1.99	30.0	46.2	1.14	540	0.61
157278		9.8	34	5.13	17.5	3.16	22.7	0.15	2.2	0.048	1.96	23.9	49.4	1.11	541	0.61
157279		11.3	32	4.84	16.8	3.12	22.7	0.19	2.0	0.048	2.11	29.7	43.5	1.05	557	0.71
157280		8.3	26	3.41	10.9	2.45	20.5	0.18	1.7	0.042	2.05	28.7	36.1	0.82	462	0.60
157281		7.1	21	4.17	8.8	2.11	20.2	0.17	1.8	0.041	2.15	27.8	42.7	0.65	539	0.60
157282		7.9	27	4.65	12.3	2.59	21.0	0.18	1.8	0.045	2.05	27.0	44.2	0.95	440	0.57
157283		8.0	26	3.81	12.6	2.48	19.25	0.17	1.9	0.038	1.94	26.9	41.1	0.94	421	0.53
157284		10.0	30	5.10	16.9	3.02	21.4	0.16	2.1	0.048	2.10	25.4	44.3	1.05	524	0.71
157285		8.8	29	4.13	13.8	2.75	21.0	0.17	1.9	0.040	2.12	30.9	39.3	0.86	509	0.69
155851		9.3	31	4.52	17.1	2.78	19.00	0.17	1.3	0.041	2.12	35.0	64.1	1.10	499	0.65
155852		10.7	32	4.51	20.9	2.59	17.15	0.18	1.1	0.042	1.72	26.4	204	1.79	487	0.73
155853		9.5	32	3.94	15.6	2.59	18.50	0.18	1.1	0.039	2.01	33.5	76.9	0.95	456	0.70
155854		9.7	33	4.75	18.6	2.75	19.00	0.20	1.2	0.045	2.06	30.8	88.8	1.09	495	0.65
155855		6.6	28	3.12	9.2	1.98	17.20	0.18	1.1	0.036	1.99	28.2	106.5	0.73	391	0.73
155856		11.2	46	4.38	22.0	2.93	17.55	0.19	0.9	0.043	1.80	30.8	86.1	2.01	524	0.77
155857		11.0	36	5.92	20.7	2.97	19.45	0.17	1.3	0.045	1.90	26.4	87.8	1.11	546	0.88
155858		6.7	22	5.97	11.7	2.05	16.20	0.17	1.3	0.033	1.87	28.9	71.4	0.82	357	1.77
155859		3.5	16	1.76	6.7	1.09	8.29	0.20	0.7	0.019	1.04	15.6	86.1	1.03	353	2.36
155860		3.6	16	1.79	7.0	1.11	8.80	0.20	0.7	0.023	1.08	16.6	88.8	1.09	263	1.75
155862		6.3	23	3.40	13.2	1.90	13.45	0.19	1.1	0.038	1.56	22.0	216	1.73	392	1.68
155863		9.9	31	6.04	20.9	2.98	19.60	0.19	1.5	0.047	2.11	27.9	197.5	1.68	529	3.50
155864		8.0	33	4.37	16.5	2.55	17.05	0.17	1.3	0.038	2.20	30.7	186.0	1.30	536	2.73
155865		6.3	20	3.58	10.6	2.06	17.40	0.17	1.1	0.031	2.01	30.1	80.2	0.70	403	2.57
155866		6.3	22	3.94	13.1	2.15	17.05	0.17	1.3	0.036	1.91	24.2	106.5	0.86	387	2.64
155867		5.1	18	2.81	8.4	1.88	17.30	0.16	1.3	0.033	2.05	25.3	50.9	0.54	359	0.75
155869		8.3	24	4.47	19.2	2.43	16.30	0.16	1.2	0.041	1.86	26.5	241	2.06	531	2.69
155870		7.2	21	3.76	14.4	2.11	14.35	0.15	1.1	0.035	1.64	24.1	173.0	1.63	436	2.94
155871		6.4	22	3.29	13.4	2.03	14.20	0.18	1.1	0.039	1.63	25.3	102.0	1.26	377	1.89
155872		7.1	23	3.43	13.4	2.19	15.90	0.18	1.2	0.039	1.87	28.8	92.4	1.30	519	1.90
155873		9.4	29	5.09	23.7	3.31	19.95	0.17	1.4	0.050	2.03	33.5	98.0	1.30	594	2.19
155874		13.0	36	7.29	33.2	3.81	23.6	0.14	1.7	0.071	2.36	33.3	145.5	1.64	743	21.1
155875		0.7	7	4.29	4.3	0.56	14.60	0.20	2.7	0.024	3.23	15.5	46.3	0.13	420	5.06





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# CERTIFICATE OF ANALYSIS RE19312060

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
157269		1.80	12.2	21.4	460	15.2	72.0	0.002	0.04	3.03	9.5	<1	2.0	503	0.89	<0.05
157270		2.17	11.9	18.3	590	16.5	76.5	0.002	0.05	3.06	8.0	1	1.8	564	0.91	<0.05
157271		1.90	8.2	24.6	460	15.9	45.4	<0.002	0.04	2.64	9.2	<1	1.8	661	0.65	<0.05
157272		2.05	11.9	22.0	460	16.2	67.8	<0.002	0.04	3.02	9.7	1	1.8	612	0.90	<0.05
157273		1.97	12.0	19.1	570	14.5	74.7	0.002	0.02	3.05	9.4	1	1.8	535	0.96	<0.05
157274		2.31	12.4	19.8	680	15.1	74.3	0.002	0.01	2.69	8.7	1	1.7	572	0.91	<0.05
157275		2.10	11.0	19.2	620	15.8	79.9	0.002	0.01	3.12	8.8	1	1.7	519	0.79	<0.05
157276		1.58	10.5	23.2	460	15.2	80.6	0.002	0.01	3.59	10.8	<1	1.9	429	0.77	<0.05
157277		1.86	10.7	22.1	570	15.0	76.2	<0.002	0.01	3.32	9.9	1	1.8	493	0.80	<0.05
157278		1.73	11.2	22.3	440	15.7	73.4	<0.002	0.01	2.68	9.9	<1	2.0	475	0.85	<0.05
157279		1.96	13.2	22.2	600	17.1	80.3	0.002	0.01	3.13	9.9	<1	2.1	502	0.93	<0.05
157280		2.49	12.0	15.9	490	15.6	72.3	<0.002	0.02	3.48	8.2	1	1.7	623	0.89	<0.05
157281		2.50	16.6	13.3	510	19.0	92.1	<0.002	0.01	2.80	7.6	<1	1.8	529	1.14	<0.05
157282		2.00	11.5	17.1	540	15.4	75.4	<0.002	0.02	2.56	8.1	1	1.8	539	0.85	<0.05
157283		2.05	11.0	17.2	740	15.3	66.9	0.002	0.03	2.61	7.7	<1	1.6	558	0.83	<0.05
157284		1.77	11.6	20.3	640	16.5	67.0	<0.002	0.04	2.99	8.8	<1	1.9	485	0.85	<0.05
157285		2.06	10.8	18.2	550	17.4	75.5	0.002	0.05	3.04	8.0	1	1.7	534	0.82	<0.05
155851		2.13	12.3	21.1	620	14.1	72.6	0.002	0.02	5.81	8.6	1	1.7	618	0.92	<0.05
155852		1.72	9.3	23.1	670	11.8	67.8	0.002	0.05	7.56	8.5	1	1.6	806	0.73	<0.05
155853		2.33	12.3	21.5	420	13.8	73.9	<0.002	0.03	6.46	8.2	1	1.7	610	0.93	<0.05
155854		2.03	13.4	24.5	520	14.2	77.2	0.002	0.01	6.90	9.0	<1	1.8	487	1.05	<0.05
155855		2.62	12.0	13.6	340	13.0	73.5	<0.002	0.04	5.59	7.2	1	1.7	499	0.92	<0.05
155856		1.70	11.3	35.0	770	11.9	77.8	0.002	0.04	9.08	9.9	1	1.8	911	0.85	<0.05
155857		1.80	11.5	26.7	670	13.8	67.8	<0.002	0.04	6.82	9.4	<1	1.9	513	0.86	<0.05
155858		2.46	9.7	13.2	430	12.1	72.0	0.002	0.37	5.38	6.4	1	1.4	638	0.70	<0.05
155859		1.78	5.7	7.6	450	6.3	47.1	0.002	0.53	3.82	3.6	1	0.8	1575	0.41	<0.05
155860		1.79	6.1	7.1	480	6.6	49.1	0.002	0.68	3.97	3.8	1	0.9	1630	0.45	<0.05
155862		2.65	8.0	12.8	490	9.5	68.5	0.005	0.32	4.12	6.1	1	1.3	1120	0.61	<0.05
155863		3.53	10.6	20.4	610	12.8	93.0	0.004	1.29	5.85	9.4	1	1.9	877	0.77	<0.05
155864		2.74	11.7	17.4	790	13.4	87.5	0.004	0.30	5.41	8.0	1	1.7	643	0.88	<0.05
155865		2.79	12.9	13.3	530	14.2	73.8	0.003	0.29	3.74	6.6	1	1.5	611	0.88	0.05
155866		2.49	10.6	13.5	630	13.5	70.0	0.003	0.61	3.85	6.5	1	1.4	601	0.79	<0.05
155867		2.64	11.0	10.8	400	13.7	68.4	0.003	0.30	3.22	5.9	1	1.3	613	0.77	<0.05
155869		2.35	9.9	16.4	730	11.7	82.3	0.003	0.69	3.90	7.6	1	1.5	1670	0.67	<0.05
155870		2.25	9.3	13.6	590	10.7	74.3	0.005	0.32	4.33	6.6	1	1.4	1425	0.63	<0.05
155871		2.33	9.7	11.8	580	10.4	72.5	0.004	0.28	3.55	6.4	1	1.4	1030	0.64	<0.05
155872		2.66	11.7	14.2	580	11.7	83.9	0.003	0.05	3.71	7.1	1	1.6	868	0.79	<0.05
155873		3.50	12.0	19.3	860	16.1	84.3	0.026	0.09	3.43	9.7	1	2.0	559	0.85	<0.05
155874		2.94	13.5	25.1	970	14.7	110.5	0.017	0.93	3.65	12.0	1	2.4	409	0.88	<0.05
155875		2.42	20.1	3.4	80	22.4	108.5	<0.002	0.11	1.26	1.6	1	1.5	261	1.69	<0.05



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## CERTIFICATE OF ANALYSIS RE19312060

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
157269		8.07	0.392	0.42	1.8	65	2.7	15.6	83	66.2	3.03	1.51	1.02	3.46	0.55
157270		7.32	0.423	0.42	1.7	63	3.2	14.3	74	61.6	2.68	1.36	1.02	3.11	0.50
157271		5.42	0.314	0.36	1.6	61	3.7	8.6	99	77.1	1.91	0.95	0.64	2.17	0.35
157272		9.40	0.456	0.38	2.1	75	2.8	13.0	89	71.1	2.53	1.31	0.95	2.99	0.48
157273		9.40	0.400	0.39	1.9	63	2.9	14.9	79	67.7	2.77	1.40	0.96	3.35	0.51
157274		9.53	0.451	0.41	2.0	69	2.5	16.7	76	65.0	3.20	1.55	1.15	3.79	0.60
157275		7.99	0.380	0.45	2.1	64	2.5	15.2	74	64.2	2.80	1.43	1.05	3.42	0.52
157276		8.71	0.374	0.45	2.3	70	3.3	13.9	96	70.6	2.66	1.40	0.93	3.15	0.48
157277		9.78	0.365	0.40	2.0	65	3.3	15.6	83	66.3	2.99	1.51	1.05	3.50	0.56
157278		7.78	0.382	0.42	2.2	66	2.6	13.0	92	72.7	2.51	1.32	0.90	2.94	0.49
157279		8.35	0.416	0.44	2.2	68	2.7	16.0	84	66.6	3.01	1.55	1.08	3.56	0.57
157280		10.30	0.402	0.38	2.1	61	1.9	14.3	62	54.8	2.68	1.36	1.02	3.15	0.49
157281		12.40	0.341	0.52	2.6	52	1.9	15.4	56	50.3	2.76	1.43	0.96	3.19	0.52
157282		8.03	0.367	0.45	1.9	60	2.0	13.7	75	57.9	2.62	1.30	0.91	3.03	0.49
157283		6.57	0.405	0.42	2.1	58	2.6	14.1	71	59.6	2.63	1.35	0.96	3.18	0.50
157284		7.82	0.386	0.43	1.8	64	2.5	14.0	87	65.6	2.71	1.37	0.91	3.16	0.51
157285		8.42	0.396	0.44	1.7	61	1.9	13.2	77	58.2	2.60	1.25	0.97	3.18	0.49
155851		16.25	0.392	0.39	2.2	62	4.3	17.1	69	38.6	3.26	1.69	1.11	4.02	0.60
155852		8.01	0.290	0.40	2.6	56	4.3	13.6	73	35.4	2.51	1.26	0.85	3.01	0.47
155853		10.85	0.404	0.41	2.2	65	5.7	17.1	64	34.6	3.13	1.59	1.10	3.89	0.58
155854		8.89	0.376	0.45	1.9	59	4.3	17.0	69	36.9	3.19	1.67	1.11	3.77	0.61
155855		8.61	0.336	0.38	2.8	58	3.7	15.9	47	34.0	2.93	1.51	1.03	3.43	0.55
155856		8.98	0.371	0.43	2.1	74	6.1	17.2	75	26.4	3.22	1.64	1.05	3.75	0.60
155857		8.61	0.364	0.45	2.0	63	5.6	15.7	82	40.5	3.03	1.56	0.98	3.50	0.57
155858		7.12	0.308	0.31	3.7	53	4.1	13.7	52	43.0	2.48	1.27	0.88	2.94	0.48
155859		4.31	0.180	0.20	5.9	40	7.8	7.7	28	19.7	1.43	0.73	0.50	1.72	0.28
155860		4.42	0.182	0.20	6.4	44	4.5	8.1	29	21.0	1.57	0.77	0.53	1.82	0.29
155862		6.98	0.261	0.33	4.5	59	4.8	10.8	56	36.5	2.09	1.07	0.68	2.38	0.39
155863		8.84	0.330	0.46	5.6	75	7.4	14.5	90	47.6	2.68	1.38	0.86	3.07	0.51
155864		8.69	0.369	0.47	3.1	73	4.9	16.4	75	41.2	2.90	1.51	1.03	3.59	0.57
155865		6.76	0.343	0.38	3.3	62	4.0	15.5	47	37.5	2.85	1.38	1.08	3.54	0.53
155866		6.75	0.293	0.40	3.1	61	4.4	14.3	54	38.6	2.71	1.30	1.02	3.24	0.51
155867		6.98	0.331	0.38	2.4	53	3.0	14.9	41	40.6	2.68	1.37	1.08	3.32	0.53
155869		8.98	0.297	0.46	19.7	66	4.5	13.6	77	39.4	2.53	1.30	0.85	3.08	0.48
155870		7.74	0.283	0.41	5.2	66	4.6	11.5	67	33.5	2.26	1.16	0.77	2.76	0.44
155871		7.82	0.295	0.39	5.2	58	3.8	12.0	61	33.9	2.33	1.23	0.81	2.92	0.45
155872		8.97	0.353	0.44	5.7	65	5.8	14.7	65	35.7	2.63	1.33	0.89	3.23	0.50
155873		13.15	0.339	0.52	3.4	77	3.7	17.1	88	42.1	3.16	1.66	1.05	3.97	0.62
155874		12.10	0.392	0.63	3.1	81	4.6	17.8	126	55.0	3.30	1.74	1.09	4.01	0.62
155875		7.59	0.049	0.71	3.1	8	1.6	10.1	40	63.2	1.79	1.07	0.27	1.70	0.36



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**CERTIFICATE OF ANALYSIS RE19312060**

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Nd	Pr	Sm	Tb	Tm	Yb
		ppm 0.1	ppm 0.03	ppm 0.03	ppm 0.01	ppm 0.01	ppm 0.03
157269		24.7	6.79	4.96	0.53	0.22	1.40
157270		24.1	6.78	4.66	0.49	0.20	1.24
157271		14.5	3.93	2.99	0.34	0.14	0.90
157272		21.4	6.02	4.21	0.45	0.18	1.12
157273		24.4	6.76	4.83	0.52	0.20	1.25
157274		26.1	7.19	5.09	0.57	0.23	1.43
157275		24.8	6.82	4.88	0.50	0.20	1.26
157276		23.1	6.39	4.47	0.48	0.20	1.28
157277		25.0	6.88	4.93	0.54	0.22	1.40
157278		20.6	5.67	4.01	0.46	0.19	1.22
157279		25.9	7.15	5.11	0.55	0.22	1.41
157280		23.4	6.46	4.51	0.48	0.19	1.26
157281		22.7	6.27	4.51	0.48	0.21	1.42
157282		22.5	6.23	4.26	0.47	0.19	1.18
157283		22.3	6.16	4.36	0.47	0.20	1.22
157284		22.2	6.19	4.48	0.50	0.21	1.32
157285		24.0	6.72	4.46	0.48	0.18	1.19
155851		28.2	7.92	5.57	0.61	0.24	1.52
155852		21.0	5.84	4.20	0.45	0.20	1.20
155853		27.5	7.63	5.53	0.59	0.23	1.44
155854		26.4	7.23	5.22	0.57	0.24	1.53
155855		23.7	6.54	4.71	0.52	0.21	1.34
155856		26.1	7.09	5.16	0.55	0.24	1.49
155857		23.8	6.50	4.80	0.54	0.23	1.44
155858		22.2	6.22	4.20	0.45	0.19	1.20
155859		12.5	3.49	2.46	0.27	0.11	0.68
155860		13.4	3.68	2.69	0.27	0.11	0.71
155862		17.0	4.67	3.42	0.37	0.15	0.99
155863		22.4	6.22	4.44	0.46	0.21	1.27
155864		24.7	6.78	4.87	0.53	0.22	1.39
155865		24.9	6.87	4.80	0.52	0.20	1.22
155866		21.4	5.73	4.22	0.48	0.19	1.18
155867		22.2	5.98	4.41	0.48	0.19	1.22
155869		20.8	5.73	3.97	0.45	0.19	1.16
155870		18.9	5.20	3.71	0.40	0.16	1.03
155871		19.9	5.53	3.86	0.42	0.17	1.11
155872		22.2	6.14	4.33	0.48	0.19	1.22
155873		26.5	7.32	5.08	0.56	0.24	1.44
155874		27.2	7.56	5.34	0.60	0.25	1.53
155875		9.3	2.66	2.05	0.28	0.17	1.21



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# CERTIFICATE OF ANALYSIS RE19312060

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	Rh-MS25 Rh ppm 0.001	Ag-AA45 Ag ppm 0.2	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
155876		8.60	0.006	<0.005	0.001	<0.001	<0.2	0.04	7.71	28.0	640	2.27	0.24	3.17	0.15	64.1
155877		8.48	0.008	<0.005	0.002	<0.001	<0.2	0.07	7.74	25.7	680	2.40	0.22	2.81	0.14	61.9
155878		5.50	0.010	<0.005	0.001	<0.001	<0.2	0.07	8.02	26.0	660	2.49	0.24	2.79	0.15	69.0
155879		2.68	0.018	<0.005	0.002	<0.001	<0.2	0.18	8.04	37.7	580	2.46	0.25	2.62	0.20	58.7
155880		9.78	0.017	<0.005	0.001	<0.001	<0.2	0.07	7.68	31.1	610	2.23	0.23	3.88	0.16	64.5
155881		4.08	0.017	<0.005	0.001	<0.001	<0.2	0.14	7.91	32.4	570	2.38	0.25	3.53	0.16	64.5
155882		4.12	0.018	<0.005	0.002	<0.001	<0.2	0.12	7.63	35.1	560	2.29	0.25	2.89	0.18	59.5
155883		6.06	0.020	<0.005	0.001	<0.001	<0.2	0.12	7.88	34.3	560	2.32	0.26	3.10	0.17	61.3
155884		3.62	0.018	<0.005	0.001	<0.001	<0.2	0.17	7.78	35.7	550	2.26	0.24	3.30	0.18	63.0
155885		4.40	0.024	<0.005	0.002	<0.001	<0.2	0.12	7.98	30.2	580	2.20	0.25	4.27	0.18	66.9
155886		3.44	0.018	<0.005	0.002	<0.001	<0.2	0.18	8.15	37.1	540	2.38	0.25	2.66	0.19	64.1
155887		4.42	0.018	<0.005	0.002	<0.001	<0.2	0.16	8.19	39.5	600	2.50	0.26	2.69	0.19	65.3
155890		7.94	0.012	<0.005	0.002	<0.001	<0.2	0.07	6.68	35.7	760	1.65	0.16	7.05	0.27	55.0
155891		8.22	0.014	<0.005	0.001	<0.001	<0.2	0.09	6.71	35.9	730	1.60	0.15	7.70	0.24	52.2
155892		9.00	0.012	<0.005	0.001	<0.001	<0.2	0.12	6.67	32.8	710	1.68	0.15	6.34	0.32	51.2
155893		7.82	0.014	<0.005	0.001	<0.001	<0.2	0.10	7.08	51.2	670	1.81	0.19	4.80	0.22	55.9
155894		8.10	0.013	<0.005	0.001	<0.001	<0.2	0.10	7.05	49.8	690	1.81	0.18	4.06	0.24	59.4



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Sample Description	Method Analyte Units LOD	ME-MS61r Co ppm 0.1	ME-MS61r Cr ppm 1	ME-MS61r Cs ppm 0.05	ME-MS61r Cu ppm 0.2	ME-MS61r Fe % 0.01	ME-MS61r Ga ppm 0.05	ME-MS61r Ge ppm 0.05	ME-MS61r Hf ppm 0.1	ME-MS61r In ppm 0.005	ME-MS61r K % 0.01	ME-MS61r La ppm 0.5	ME-MS61r Li ppm 0.2	ME-MS61r Mg % 0.01	ME-MS61r Mn ppm 5	ME-MS61r Mo ppm 0.05
155876		13.0	38	7.28	31.3	3.87	23.3	0.18	1.8	0.064	2.43	31.5	159.0	1.67	771	19.35
155877		11.6	33	6.16	27.8	3.42	22.4	0.17	1.6	0.059	2.38	30.9	140.5	1.46	718	12.60
155878		12.8	36	7.23	31.5	3.80	24.3	0.19	1.8	0.070	2.39	34.4	143.5	1.59	754	8.08
155879		13.6	40	8.12	35.7	4.12	24.8	0.17	1.8	0.073	2.41	28.4	166.5	1.80	817	5.93
155880		13.1	37	7.47	32.4	3.78	23.1	0.18	1.7	0.061	2.36	33.0	160.5	1.65	779	12.65
155881		13.2	39	7.99	34.1	3.97	24.3	0.16	1.8	0.066	2.35	32.8	161.5	1.78	788	11.80
155882		13.1	40	7.98	33.9	3.86	24.1	0.16	1.8	0.066	2.28	29.4	157.0	1.70	768	11.60
155883		12.9	40	8.17	33.8	3.98	24.1	0.15	1.8	0.068	2.29	29.7	163.0	1.77	766	10.75
155884		13.1	40	8.24	34.4	3.99	24.0	0.17	1.9	0.064	2.28	31.4	161.0	1.78	781	10.70
155885		12.8	38	7.94	32.8	3.91	23.5	0.17	1.8	0.065	2.26	34.2	141.0	1.66	746	8.22
155886		13.3	40	8.39	35.6	4.10	24.3	0.19	1.9	0.066	2.37	31.9	162.0	1.84	824	7.40
155887		13.4	41	8.28	34.3	3.95	24.8	0.17	1.9	0.066	2.35	32.1	162.0	1.75	799	10.95
155890		8.4	26	4.39	17.4	2.49	17.30	0.20	1.3	0.043	1.95	28.9	222	1.67	557	2.44
155891		8.3	25	4.47	17.5	2.47	17.25	0.18	1.3	0.044	2.00	27.1	220	1.64	556	2.74
155892		8.1	28	4.50	17.2	2.46	17.05	0.18	1.3	0.039	1.99	27.1	202	1.57	444	1.88
155893		9.7	32	5.90	22.4	2.95	19.20	0.15	1.5	0.049	2.15	29.1	206	1.75	627	3.16
155894		10.7	34	6.29	23.4	3.10	19.70	0.18	1.5	0.050	2.16	31.0	205	1.70	690	3.99



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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
		%	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
155876		2.37	14.0	25.2	980	15.2	105.5	0.029	0.76	3.64	11.8	1	2.4	425	0.93
155877		2.81	13.7	21.8	960	15.3	99.6	0.015	0.49	3.34	10.9	1	2.3	421	0.94
155878		2.64	14.5	25.2	990	16.0	109.0	0.015	0.66	3.75	12.1	1	2.4	347	0.90
155879		2.73	12.2	29.0	1060	16.2	96.4	0.012	0.39	5.87	12.4	1	2.4	331	0.84
155880		2.60	12.2	25.7	980	15.2	110.0	0.024	1.58	3.89	11.9	1	2.2	564	0.83
155881		2.70	12.1	28.0	1040	15.5	103.0	0.017	1.42	5.02	12.4	1	2.4	429	0.84
155882		2.78	11.7	28.4	980	15.8	99.8	0.013	1.02	5.22	12.3	1	2.3	317	0.81
155883		2.09	11.4	28.7	1020	15.6	97.3	0.008	1.16	5.39	12.4	1	2.3	369	0.79
155884		2.75	11.5	28.9	1020	15.3	103.0	0.013	1.20	5.57	12.5	1	2.3	394	0.81
155885		2.19	11.8	27.1	980	15.0	108.5	0.008	1.94	4.40	12.2	1	2.3	381	0.82
155886		2.66	11.2	28.8	1040	15.5	107.0	0.013	0.46	5.96	12.7	1	2.3	317	0.79
155887		1.74	11.7	29.5	1040	16.8	99.9	0.005	0.49	6.49	12.7	<1	2.4	370	0.82
155890		2.75	11.2	17.3	810	13.1	83.1	<0.002	0.27	4.12	8.0	1	3.1	715	0.77
155891		2.62	10.2	17.3	800	12.7	83.2	0.002	0.52	4.31	7.8	1	1.6	854	0.69
155892		3.00	10.6	17.4	730	13.1	82.7	0.003	0.15	3.94	7.7	1	1.7	713	0.71
155893		2.65	10.3	21.9	840	14.7	88.3	0.003	0.12	5.72	9.2	1	1.8	492	0.74
155894		3.27	11.2	22.9	870	15.2	93.7	0.006	0.19	4.35	9.6	2	1.9	479	0.76



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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
155876		12.50	0.412	0.63	3.0	83	4.7	17.1	129	55.9	3.28	1.68	1.04	3.99	0.65
155877		10.80	0.391	0.60	3.0	76	4.1	17.5	111	50.1	3.30	1.67	1.06	3.95	0.62
155878		13.35	0.394	0.65	3.2	80	4.3	18.5	126	56.6	3.51	1.78	1.12	4.15	0.66
155879		10.65	0.364	0.64	2.7	83	5.3	17.2	134	58.6	3.32	1.69	1.01	3.84	0.64
155880		11.95	0.374	0.63	3.1	81	5.0	17.4	124	56.1	3.22	1.63	1.00	3.87	0.63
155881		11.60	0.364	0.63	2.8	81	5.4	17.7	130	60.1	3.29	1.66	1.03	3.99	0.63
155882		11.10	0.350	0.62	2.6	78	5.3	17.1	127	60.1	3.19	1.64	0.98	3.76	0.61
155883		11.25	0.345	0.64	3.0	81	5.1	17.1	129	60.6	3.22	1.63	0.99	3.80	0.61
155884		12.00	0.344	0.61	2.9	79	5.4	17.3	129	60.5	3.23	1.65	0.98	3.82	0.62
155885		12.05	0.360	0.62	4.0	79	4.6	17.5	128	59.3	3.26	1.66	1.03	3.87	0.61
155886		11.70	0.347	0.63	2.8	82	5.5	17.5	133	59.7	3.24	1.67	1.00	3.94	0.64
155887		11.60	0.353	0.65	2.9	80	5.9	18.0	126	60.5	3.49	1.75	1.07	4.10	0.67
155890		8.25	0.335	0.42	8.4	66	7.7	15.2	73	42.6	2.76	1.42	0.95	3.44	0.52
155891		7.63	0.321	0.44	13.8	66	8.7	14.0	74	43.3	2.52	1.27	0.89	3.10	0.50
155892		7.45	0.322	0.43	4.5	66	6.2	14.3	74	41.2	2.48	1.30	0.91	3.10	0.48
155893		8.80	0.324	0.47	6.0	70	8.3	14.8	92	47.5	2.82	1.42	0.91	3.41	0.53
155894		9.25	0.350	0.50	6.1	73	8.6	15.6	97	51.1	2.86	1.45	0.97	3.46	0.54



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Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Nd	Pr	Sm	Tb	Tm	Yb
		ppm 0.1	ppm 0.03	ppm 0.03	ppm 0.01	ppm 0.01	ppm 0.03
155876		26.2	7.18	5.12	0.60	0.24	1.52
155877		25.8	7.03	5.09	0.57	0.25	1.51
155878		27.9	7.76	5.52	0.61	0.26	1.61
155879		24.2	6.64	4.81	0.58	0.24	1.53
155880		25.6	7.11	4.92	0.57	0.24	1.53
155881		26.6	7.26	5.12	0.59	0.24	1.53
155882		24.2	6.65	4.83	0.57	0.24	1.47
155883		24.9	6.81	4.83	0.57	0.24	1.50
155884		25.4	6.96	4.90	0.56	0.23	1.51
155885		26.2	7.33	4.98	0.58	0.23	1.50
155886		25.5	7.02	4.91	0.58	0.24	1.55
155887		26.1	7.21	5.17	0.61	0.25	1.54
155890		22.5	6.21	4.35	0.49	0.20	1.24
155891		21.4	5.85	4.17	0.46	0.19	1.13
155892		21.1	5.80	4.09	0.45	0.18	1.16
155893		22.5	6.26	4.33	0.50	0.21	1.26
155894		23.8	6.58	4.63	0.51	0.21	1.27





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Finalized Date: 8-JAN-2020  
Account: KEERRG

**CERTIFICATE OF ANALYSIS RE19312060**

**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.  
CRU-31 DRY-22  
LOG-24 PUL-31  
SPL-21 WEI-21

LOG-22  
SCR-41

LOG-22d  
SND-ALS

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Ag-AA45 ME-MS61r

PGM-ICP23

Rh-MS25