

ALS USA Inc.

4977 Energy Way Reno NV 89502

Phone: +1 775 356 5395 Fax: +1 775 355 0179

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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 This copy reported on 9-JAN-2020

Account: KEERRG

CERTIFICATE RE19316786

This report is for 87 Soil samples submitted to our lab in Reno, NV, USA on 12-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	
LOG-22	Sample login - Rcd w/o BarCode	
SCR-41	Screen to -180um and save both	
DRY-22	Drying - Maximum Temp 60C	
LOG-24	Pulp Login - Rcd w/o Barcode	
SND-ALS	Send samples to internal laboratory	

	ANALYTICAL PROCEDURES	5
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

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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To: RED RIVER CREEK MINING GROUP LLC 1712 CAREY AVENUE SUITE 100 CHEYENNE WY 82001 Page: 2 - A
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Sample Description	Method	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
	Analyte	Recvd Wt.	Au	Pt	Pd	Ag	Rh	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce
	Units	kg	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	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
157225		4.04	0.241	<0.005	0.001	0.3	<0.001	0.32	8.13	53.7	830	2.55	0.25	3.62	0.09	80.9
157226		4.49	0.044	<0.005	0.001	<0.2	<0.001	0.17	7.41	62.0	700	2.01	0.21	4.31	0.10	80.1
157227		3.92	0.042	<0.005	0.001	<0.2	<0.001	0.16	8.13	64.0	680	2.20	0.22	3.79	0.14	75.8
157228 157229		5.13 3.01	0.037 0.059	<0.005 <0.005	<0.001 <0.001	<0.2 0.4	<0.001 <0.001	0.13 0.41	7.95 7.88	60.4 107.5	870 850	2.10 2.00	0.24 0.23	3.24 4.09	0.11 0.18	75.5 76.3
157230		5.22	0.025	<0.005	<0.001	<0.2	<0.001	0.23	7.61	64.0	750	2.27	0.23	5.04	0.13	81.8
157231		0.06	0.103	<0.005	<0.001	<0.2	<0.001	0.10	4.80	5.9	410	2.04	0.19	4.39	0.11	17.95
157235		3.92	0.053	<0.005	<0.001	<0.2	<0.001	0.13	8.00	57.7	670	2.20	0.21	3.02	0.09	88.5
157236		5.86	0.087	<0.005	<0.001	<0.2	<0.001	0.14	7.83	74.8	640	1.89	0.19	2.98	0.09	82.9
157237		7.86	0.081	<0.005	<0.001	<0.2	<0.001	0.17	7.91	75.8	670	1.82	0.19	3.33	0.09	76.6
157238		5.83	0.078	<0.005	<0.001	<0.2	<0.001	0.16	8.10	71.9	700	2.02	0.21	2.65	0.10	78.3
157239		6.81	0.223	<0.005	<0.001	<0.2	<0.001	0.11	7.75	80.6	720	1.80	0.17	3.06	0.08	75.7
157286		2.22	0.038	<0.005	<0.001	<0.2	<0.001	0.07	7.83	49.1	710	1.79	0.20	2.59	0.11	77.6
157287		2.16	0.039	<0.005	<0.001	<0.2	<0.001	0.10	7.87	36.1	760	1.84	0.17	2.59	0.12	78.4
157288		2.31	0.038	<0.005	<0.001	<0.2	<0.001	0.05	7.81	43.3	730	1.74	0.17	1.87	0.09	75.6
157289		1.65	0.009	<0.005	<0.001	<0.2	<0.001	0.14	8.98	7.8	880	2.10	0.13	2.67	0.08	67.5
157290		2.45	0.002	<0.005	<0.001	<0.2	<0.001	0.13	8.77	5.8	790	1.77	0.12	3.45	0.08	103.0
157291		2.20	0.012	<0.005	<0.001	<0.2	<0.001	0.15	8.51	6.0	860	1.97	0.10	4.22	0.07	91.7
157292		1.85	0.034	<0.005	<0.001	0.2	<0.001	0.25	8.94	10.0	870	1.96	0.13	3.79	0.09	74.4
157293		2.26	0.030	<0.005	<0.001	0.2	<0.001	0.18	8.66	18.8	930	1.92	0.14	2.98	0.09	90.6
157294		1.90	0.104	<0.005	<0.001	0.2	<0.001	0.26	9.02	18.1	730	2.09	0.17	2.40	0.10	78.8
157295		1.72	0.051	<0.005	<0.001	<0.2	<0.001	0.17	9.39	15.1	620	2.31	0.19	2.40	0.11	76.8
157296		1.99	0.080	<0.005	<0.001	<0.2	<0.001	0.14	8.96	20.1	2160	1.95	0.15	2.61	0.10	71.7
157297		2.82	0.125	<0.005	<0.001	<0.2	<0.001	0.11	8.21	66.1	700	1.68	0.20	2.02	0.15	118.0
157298		2.67	0.102	<0.005	<0.001	<0.2	<0.001	0.08	7.31	51.4	650	1.48	0.17	2.05	0.08	90.5
157299 157300 154551 154552 154553		2.34 2.21 1.50 1.64 2.34	0.070 0.105 0.093 0.102 0.484	<0.005 <0.005 <0.005 <0.005 <0.005	<0.001 <0.001 <0.001 <0.001 0.001	<0.2 0.2 <0.2 <0.2 <0.2 0.2	<0.001 <0.001 <0.001 <0.001 <0.001	0.07 0.11 0.08 0.08 0.45	7.73 7.44 8.71 8.36 8.14	40.0 48.1 27.5 17.0 38.7	720 690 720 930 870	1.58 1.56 1.91 1.85 1.91	0.13 0.16 0.16 0.12 0.18	2.96 5.63 2.90 3.76 3.83	0.09 0.13 0.09 0.09 0.16	79.4 85.4 83.0 74.4 90.1
154554		2.41	0.447	<0.005	0.001	0.3	<0.001	0.24	8.20	42.8	780	2.06	0.20	4.43	0.16	80.0
154555		2.40	0.068	<0.005	<0.001	0.2	<0.001	0.11	8.48	26.3	920	2.06	0.17	3.21	0.14	88.5
154556		2.57	0.031	<0.005	<0.001	<0.2	<0.001	0.09	7.63	33.5	770	1.67	0.17	3.21	0.06	81.4
154557		1.75	0.006	<0.005	<0.001	<0.2	<0.001	0.04	9.92	31.0	300	4.56	0.32	0.95	0.08	41.5
154558		1.97	0.005	<0.005	<0.001	<0.2	<0.001	0.05	10.05	21.2	320	3.82	0.32	0.68	0.11	53.4
154559		0.97	0.004	<0.005	<0.001	<0.2	<0.001	0.03	10.05	25.1	320	3.41	0.53	0.83	0.10	69.2
154560		1.42	0.005	<0.005	<0.001	<0.2	<0.001	0.07	9.74	12.3	270	4.50	0.50	0.76	0.08	80.1
154561		0.53	0.007	<0.005	<0.001	<0.2	<0.001	0.10	9.72	16.0	280	3.92	0.49	1.20	0.05	56.7
154562		1.26	0.014	<0.005	<0.001	<0.2	<0.001	0.19	8.90	24.8	320	3.60	0.50	2.92	0.05	51.4
154563		1.66	0.028	<0.005	<0.001	<0.2	<0.001	0.23	6.95	32.3	730	2.20	0.19	9.51	0.08	53.4



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Account: KEERRG

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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
	202															
157225		11.9	49	6.18	25.1	4.13	22.9	0.18	1.4	0.062	1.99	43.3	56.4	1.26	562	0.80
157226		10.1	39	6.10	19.4	3.67	20.3	0.17	1.1	0.057	1.91	41.8	49.6	1.01	533	0.69
157227		11.4	36	7.73	19.9	3.94	22.7	0.17	1.1	0.055	2.10	37.1	47.8	1.09	636	0.77
157228		10.2	36	7.18	18.9	3.79	21.4	0.17	1.1	0.048	2.10	38.5	48.2	1.02	569	0.86
157229		11.8	51	7.16	21.9	3.85	21.2	0.17	1.1	0.054	2.05	39.1	45.0	1.10	652	0.82
157230		10.4	31	9.17	19.6	3.71	21.6	0.18	1.2	0.054	2.02	42.5	44.1	1.00	625	0.65
157231		0.6	7	3.97	4.2	0.56	13.50	0.10	2.8	0.024	3.20	9.8	38.6	0.11	417	5.01
157235		10.5	42	5.49	22.2	4.25	23.0	0.14	1.3	0.071	1.86	44.6	40.6	1.12	561	0.87
157236		10.1	47	5.08	20.4	4.13	21.8	0.15	1.1	0.065	1.77	44.0	44.4	1.13	545	0.64
157237		10.4	46	6.01	22.1	3.81	21.8	0.13	1.1	0.064	1.85	42.1	47.6	1.12	591	0.61
157238		10.5	53	5.97	21.5	4.24	22.2	0.13	1.2	0.080	1.96	42.1	42.0	1.13	583	0.72
157239		10.3	45	5.74	19.5	4.03	21.3	0.14	0.9	0.055	1.91	39.0	38.8	1.13	578	0.69
157286		9.1	46	4.40	19.6	3.84	19.35	0.12	1.0	0.054	1.87	39.3	34.5	1.01	564	0.71
157287		8.0	34	4.16	16.2	3.12	19.45	0.14	1.1	0.058	1.91	43.5	32.1	0.78	477	0.68
157288		9.5	47	3.87	19.0	3.37	19.10	0.13	1.0	0.059	1.95	38.8	32.5	0.96	517	0.73
157289		8.2	20	3.28	23.6	3.85	23.1	0.14	1.3	0.070	1.98	32.6	30.4	1.11	595	0.74
157290		6.8	16	1.97	17.9	3.68	22.2	0.20	1.2	0.076	1.63	49.5	21.1	0.90	519	1.18
157291		7.9	15	1.91	19.6	3.75	21.7	0.17	1.1	0.079	1.64	45.6	21.2	0.99	590	1.00
157292		8.6	20	2.43	22.7	3.95	22.8	0.17	1.1	0.078	1.80	37.3	28.8	1.19	603	0.94
157293		9.4	28	2.75	23.2	4.32	23.0	0.17	1.0	0.079	1.74	46.9	27.6	1.18	623	1.01
157294		9.6	31	3.33	25.8	4.15	23.9	0.13	1.7	0.075	1.81	43.0	33.8	1.22	630	0.79
157295		10.9	27	3.51	29.6	4.66	25.8	0.12	1.8	0.079	1.85	40.3	36.8	1.35	685	0.85
157296		8.3	25	2.65	24.4	3.82	23.3	0.15	1.2	0.070	1.88	35.7	30.3	1.02	586	0.89
157297		13.3	62	3.71	27.3	5.25	22.3	0.17	0.9	0.068	1.69	66.0	34.4	1.16	821	0.93
157298		10.4	46	2.87	19.5	4.03	19.05	0.17	0.8	0.061	1.52	44.3	25.9	0.91	690	0.90
157299		10.5	40	2.85	20.0	3.56	20.1	0.14	0.8	0.063	1.68	38.5	27.6	1.06	645	0.74
157300		12.4	47	3.18	23.8	4.09	20.5	0.16	0.8	0.059	1.56	42.6	30.8	1.19	717	0.88
154551		11.8	32	3.12	24.0	4.19	23.4	0.17	1.1	0.073	1.67	43.9	39.4	1.20	674	0.88
154552		9.3	23	2.70	19.1	3.73	21.7	0.16	1.1	0.060	1.64	35.5	33.4	1.09	547	0.93
154553		11.3	40	3.53	25.3	4.90	22.4	0.20	1.2	0.060	1.68	43.7	37.0	1.21	672	1.15
154554		11.8	45	4.12	28.4	5.02	23.0	0.17	1.2	0.073	1.68	40.9	42.4	1.37	691	1.01
154555		10.6	29	3.44	22.5	3.96	22.6	0.17	1.2	0.070	1.88	45.8	42.8	1.07	680	0.97
154556		9.3	41	3.14	19.1	3.53	19.45	0.17	1.0	0.062	1.80	42.3	31.6	1.02	587	0.85
154557		1.9	4	12.20	3.7	1.59	27.3	0.12	1.6	0.054	3.91	18.0	56.3	0.31	1320	0.28
154558		2.1	3	10.65	6.7	1.44	25.8	0.11	1.5	0.047	4.10	25.4	52.0	0.28	2200	0.27
154559		4.5	5	11.05	7.3	1.37	25.5	0.13	1.9	0.066	3.95	34.6	46.3	0.28	1720	0.23
154560		2.1	5	11.20	7.0	1.62	25.8	0.17	1.8	0.047	4.07	39.4	42.7	0.33	2120	0.47
154561		2.6	7	10.60	6.4	1.59	24.6	0.14	1.9	0.046	4.04	28.2	44.7	0.38	2000	0.65
154562		2.9	8	12.30	7.0	1.60	24.4	0.12	1.8	0.050	3.31	23.8	47.9	0.45	1540	0.47
154563		4.5	12	7.02	8.8	2.07	18.60	0.17	1.2	0.040	2.19	28.8	38.0	0.71	1110	0.55
.5.505					0.0	2.0.	. 5.55			0.0.0			55.5	 .		0.00



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Sample Description	Method	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	ME-MS61r
	Analyte	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	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
157225 157226 157227 157228 157229		1.28 1.51 1.50 1.69 1.43	16.4 16.6 15.8 15.4 14.7	32.5 25.0 23.6 23.1 32.6	1020 970 1030 880 1020	15.6 13.7 15.0 14.5 16.2	98.9 91.0 100.0 96.1 98.5	<0.002 <0.002 <0.002 0.002 0.002	0.02 0.02 0.03 0.03 0.04	10.60 11.05 13.05 11.20 15.10	11.9 10.0 10.7 10.1 11.2	1 1 1 1	2.4 2.1 2.2 2.2 2.2	358 387 357 393 351	1.09 1.26 1.07 1.07 1.03	<0.05 <0.05 0.05 <0.05 <0.05
157230 157231 157235 157236 157237		1.33 2.41 1.50 1.35 1.37	13.9 17.2 17.5 15.6 13.5	19.9 2.9 27.3 31.6 32.3	1890 90 1180 1110 1200	15.2 22.4 14.5 12.9 14.2	99.6 103.0 89.5 83.0 87.3	<0.002 <0.002 <0.002 0.002 0.002	0.04 0.11 0.01 0.01 0.02	11.00 1.38 12.85 15.70 16.05	9.6 1.5 11.5 10.8 10.9	1 <1 <1 1	2.0 1.5 2.7 2.4 2.2	332 249 362 351 344	0.99 1.58 1.26 1.15 0.97	<0.05 <0.05 <0.05 <0.05 <0.05
157238 157239 157286 157287 157288		1.51 1.53 1.90 2.13 2.00	15.6 15.7 15.7 14.0 14.8	34.5 29.4 29.6 22.3 32.6	1080 1390 970 820 640	14.0 13.0 13.4 14.0 13.4	90.9 88.5 77.5 77.3 82.7	<0.002 <0.002 <0.002 <0.002 <0.002	0.02 0.01 0.01 0.02 0.02	15.20 15.55 9.17 8.03 9.12	11.2 10.9 10.7 9.6 10.4	1 <1 <1 1	2.3 2.3 2.2 2.2 2.2	340 367 393 452 383	1.08 1.09 1.11 0.97 1.03	<0.05 <0.05 <0.05 <0.05 <0.05
157289 157290 157291 157292 157293		2.09 2.37 2.23 2.08 1.98	16.8 22.5 20.6 17.5 17.0	13.1 9.0 9.3 12.4 19.3	710 1000 1220 1210 1180	12.2 12.9 11.4 11.9 12.6	89.6 66.2 64.0 72.9 72.4	<0.002 0.002 <0.002 <0.002 <0.002	0.05 0.03 0.05 0.07 0.09	1.95 1.58 1.50 1.95 4.52	11.8 12.8 12.4 12.6 13.4	<1 <1 <1 1	2.4 2.8 2.6 2.7 2.6	632 680 707 712 679	1.08 1.36 1.21 1.03 1.02	<0.05 <0.05 <0.05 <0.05 <0.05
157294		1.68	16.8	20.4	1090	14.4	81.2	<0.002	0.02	3.67	12.7	<1	2.5	465	1.19	<0.05
157295		1.45	16.1	15.7	990	14.4	85.2	<0.002	0.01	2.37	13.2	<1	2.7	452	1.05	<0.05
157296		2.10	16.9	16.3	1000	12.0	77.4	<0.002	0.05	3.65	12.7	<1	2.5	543	1.08	<0.05
157297		1.67	18.1	44.1	1020	15.2	75.7	<0.002	0.02	15.65	14.0	<1	2.5	391	1.21	<0.05
157298		1.91	18.9	33.2	980	12.9	63.3	<0.002	0.01	10.65	11.8	<1	2.5	397	1.24	<0.05
157299		2.02	16.3	29.9	1250	12.3	68.8	<0.002	0.01	8.81	11.3	<1	2.2	442	1.04	<0.05
157300		1.63	16.5	36.2	1790	13.3	68.7	<0.002	0.01	9.67	11.8	<1	2.2	428	1.12	<0.05
154551		1.55	14.7	20.4	1320	13.7	72.9	<0.002	0.01	3.86	12.6	1	2.3	438	1.00	<0.05
154552		1.80	15.1	14.6	810	12.4	67.0	<0.002	0.01	2.63	11.5	<1	2.1	503	0.97	<0.05
154553		1.55	17.7	26.3	970	17.1	75.9	<0.002	0.03	7.35	12.4	<1	2.7	457	1.21	<0.05
154554		1.32	15.6	30.9	1190	16.3	79.9	0.002	0.03	8.04	12.9	<1	2.7	427	1.03	<0.05
154555		1.91	18.0	18.9	790	15.1	84.4	<0.002	0.06	4.12	11.9	<1	2.6	497	1.16	<0.05
154556		2.08	16.7	28.1	770	14.1	75.8	0.002	0.03	7.59	11.5	<1	2.7	442	1.10	0.05
154557		0.28	50.4	2.0	430	39.3	181.0	<0.002	0.02	18.85	10.0	1	3.6	81.9	2.37	<0.05
154558		0.41	50.7	2.3	200	41.4	186.0	<0.002	0.01	17.25	8.7	<1	3.2	80.1	2.34	0.07
154559		1.84	77.7	3.4	500	43.9	215	<0.002	0.02	15.45	8.9	1	3.9	87.8	3.75	0.05
154560		1.87	62.6	3.6	190	37.9	222	<0.002	0.01	15.55	8.2	<1	3.6	87.7	3.45	0.06
154561		1.77	53.5	4.4	500	34.2	205	<0.002	0.01	15.85	7.5	1	3.3	96.2	3.13	<0.05
154562		1.43	59.1	5.1	630	31.5	160.5	0.002	0.01	16.95	8.6	<1	3.6	112.0	3.13	<0.05
154563		1.03	25.9	8.3	970	18.7	98.1	<0.002	0.03	10.00	7.2	<1	2.0	313	1.60	<0.05



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Sample Description	Method	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r										
	Analyte	Th	Ti	TI	U	V	W	Y	Zn	Zr	Dy	Er	Eu	Gd	Ho	Lu
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm								
	LOD	0.01	0.005	0.02	0.1	1	0.1	0.1	2	0.5	0.05	0.03	0.03	0.05	0.01	0.01
157225		15.20	0.436	0.60	2.7	89	14.2	22.3	99	41.2	4.15	2.12	1.38	5.22	0.78	0.29
157226		13.70	0.431	0.57	3.0	86	12.4	19.6	82	32.0	3.74	1.82	1.32	4.64	0.69	0.24
157227		10.85	0.430	0.63	2.4	88	15.8	18.8	95	31.8	3.50	1.66	1.28	4.44	0.65	0.23
157228		11.65	0.431	0.57	2.8	86	17.1	18.7	88	32.4	3.56	1.71	1.30	4.52	0.68	0.23
157229		14.50	0.434	0.60	2.9	88	28.5	19.2	97	32.1	3.68	1.75	1.26	4.73	0.69	0.24
157230		15.80	0.359	0.57	3.8	82	15.2	18.3	96	34.9	3.49	1.65	1.17	4.45	0.63	0.22
157231		6.30	0.049	0.72	2.6	8	1.5	8.7	38	61.9	1.65	1.02	0.24	1.50	0.30	0.16
157235		12.30	0.507	0.56	2.9	93	21.6	21.0	97	29.3	4.20	2.05	1.55	5.42	0.70	0.25
157236		11.60	0.482	0.50	2.5	93	28.8	18.7	93	24.9	3.75	1.84	1.35	4.90	0.62	0.22
157236		10.30	0.435	0.61	2.5	88	15.4	18.4	93	26.7	3.72	1.88	1.30	4.77	0.62	0.21
157238		11.30	0.493	0.55	2.2	96	42.4	19.4	95	27.5	3.82	1.87	1.32	4.81	0.63	0.21
157239		10.00	0.531	0.57	2.5	95	13.6	18.7	101	21.8	3.84	1.93	1.43	4.91	0.65	0.22
157286		10.80	0.516	0.46	2.3	94	8.0	19.0	80	24.2	3.80	1.92	1.33	4.79	0.65	0.22
157287		11.15	0.440	0.45	2.1	74	7.3	18.3	68	28.5	3.75	1.87	1.31	4.69	0.64	0.21
157288		9.66	0.470	0.46	1.9	85	7.5	17.2	75	24.3	3.47	1.76	1.24	4.37	0.60	0.22
157289		9.84	0.495	0.49	1.7	97	1.9	19.2	95	28.6	3.87	1.92	1.30	4.77	0.64	0.24
157290		11.40	0.551	0.36	2.0	103	1.4	29.4	70	25.4	5.56	2.84	2.12	6.93	0.91	0.33
157291		9.35	0.556	0.34	1.9	103	1.5	26.5	76	22.7	4.95	2.65	1.96	6.50	0.85	0.31
157292		8.12	0.536	0.38	1.9	103	2.5	22.7	90	24.6	4.33	2.27	1.64	5.52	0.75	0.27
157293		10.15	0.513	0.40	2.0	111	2.8	24.9	86	24.2	4.90	2.39	1.77	6.02	0.81	0.29
157294		11.30	0.475	0.47	2.0	97	3.3	22.4	95	40.7	4.33	2.32	1.46	5.44	0.77	0.28
157295		10.80	0.471	0.50	2.0	104	2.4	20.4	111	51.1	4.01	2.06	1.43	5.31	0.69	0.26
157296		8.68	0.517	0.39	1.9	96	3.1	22.7	89	27.9	4.29	2.28	1.62	5.53	0.74	0.28
157297		15.10	0.615	0.48	2.5	132	9.6	25.8	98	19.8	4.94	2.49	1.84	6.39	0.84	0.29
157298		9.39	0.652	0.37	2.3	111	9.2	24.2	78	17.0	4.61	2.39	1.80	5.93	0.79	0.27
157299		8.17	0.567	0.40	2.1	94	7.0	20.2	85	16.8	3.92	2.01	1.56	5.22	0.66	0.22
157300		10.60	0.553	0.41	2.7	106	8.1	22.4	92	19.0	4.31	2.16	1.65	5.66	0.73	0.24
154551		10.30	0.467	0.40	2.2	100	3.8	20.9	94	25.5	4.27	2.13	1.56	5.44	0.73	0.26
154552		10.10	0.453	0.38	2.3	88	2.6	19.8	80	25.2	3.96	2.05	1.46	4.94	0.68	0.24
154553		10.90	0.512	0.41	2.4	117	9.1	23.7	94	27.8	4.59	2.29	1.61	5.74	0.76	0.25
154554		13.10	0.476	0.45	2.8	117	8.7	21.3	103	28.1	4.16	2.20	1.47	5.23	0.72	0.26
154555		10.45	0.549	0.46	2.4	98	5.5	23.5	92	27.0	4.51	2.23	1.63	5.62	0.77	0.27
154556		9.96	0.527	0.43	2.1	93	6.5	22.4	72	21.2	4.26	2.15	1.53	5.34	0.74	0.25
154557		30.3	0.099	0.87	4.3	16	7.7	27.0	49	34.7	5.68	3.01	0.54	6.07	0.98	0.46
154558		38.1	0.101	0.98	4.6	14	9.7	24.9	44	33.2	5.00	2.72	0.42	5.25	0.86	0.43
154559		44.7	0.134	1.23	6.4	16	10.9	28.5	48	42.0	5.33	2.85	0.40	5.90	0.90	0.44
154560		51.0	0.124	0.99	6.1	16	15.5	32.1	43	35.7	5.89	3.15	0.45	6.91	1.04	0.52
154561		35.8	0.142	0.98	5.2	19	16.6	28.5	45	40.2	5.17	3.04	0.43	5.38	0.90	0.50
154562		30.4	0.145	0.86	5.8	23	25.4	28.8	50	38.0	5.40	2.97	0.49	5.71	0.92	0.48
154563		20.9	0.219	0.55	3.4	42	27.7	18.2	55	27.2	3.53	1.94	0.68	4.29	0.62	0.30



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	Method Analyte	ME-MS61r Nd	ME-MS61r Pr	ME-MS61r Sm	ME-MS61r Tb	ME-MS61r Tm	ME-MS61r Yb	
	Units	ppm	ppm	ppm	ppm	ppm	ppm	
Sample Description	LOD	0.1	0.03	0.03	0.01	0.01	0.03	
157225		35.4	10.30	6.96	0.76	0.30	1.86	
157226		33.4	10.10	6.49	0.68	0.26	1.64	
157227		30.8	8.70	6.09	0.64	0.25	1.52	
157228		30.7	8.55	6.00	0.64	0.24	1.55	
157229		31.3	8.81	6.19	0.69	0.26	1.59	
157230		31.8	9.30	6.21	0.64	0.23	1.46	
157231		8.9	2.28	1.74	0.24	0.15	1.13	
157235		41.7	10.25	7.19	0.72	0.27	1.87	
157236 157237		38.8 35.8	9.55 8.91	6.58 6.30	0.61 0.60	0.24 0.24	1.61 1.59	
157238		37.4	9.15	6.63	0.62	0.25	1.68	
157239 157286		36.9 36.9	8.85 9.09	6.47 6.41	0.64 0.61	0.25 0.25	1.71 1.70	
157287		36.4	8.90	6.32	0.62	0.25	1.58	
157288		34.0	8.40	5.98	0.58	0.23	1.52	
157289		33.7	8.02	6.28	0.63	0.25	1.82	
157290		51.8	12.25	9.47	0.90	0.36	2.46	
157291		46.6	11.00	8.44	0.83	0.34	2.34	
157292		39.9	9.43	7.22	0.71	0.29	1.97	
157293		45.4	10.90	8.00	0.80	0.32	2.29	
157294		39.7	9.71	7.01	0.71	0.29	1.95	
157295		38.7	9.41	6.78	0.67	0.27	1.86	
157296		38.5	8.99	7.08	0.70	0.30	2.06	
157297		49.9	12.80	8.26	0.80	0.32	2.12	
157298		44.4	10.80	7.79	0.79	0.31	1.95	
157299		38.7	9.33	6.89	0.67	0.26	1.69	
157300 154551		42.4 40.4	10.20 9.82	7.59 7.03	0.71 0.70	0.27 0.27	1.88 1.90	
154552		36.8	8.92	6.57	0.70	0.27	1.79	
154553		43.8	10.45	7.79	0.76	0.30	2.11	
154554		38.0	9.25	6.68	0.69	0.28	1.89	
154555		42.4	10.30	7.31	0.71	0.31	2.06	
154556		40.0	9.68	7.21	0.69	0.28	1.90	
154557		22.8	5.25	6.46	0.89	0.45	3.37	
154558		24.4	6.08	5.96	0.76	0.41	3.14	
154559		31.0	7.88	7.22	0.84	0.41	3.20	
154560		36.0	9.26	8.58	0.98	0.48	3.62	
154561		27.0	6.76	6.27	0.80	0.44	3.45	
154562		26.0	6.24	6.28	0.83	0.45	3.46	
154563		26.3	6.53	5.42	0.58	0.28	2.07	



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Sample Description	Method	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-MS61 r	ME-MS61r	ME-MS61r
	Analyte	Recvd Wt.	Au	Pt	Pd	Ag	Rh	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce
	Units	kg	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	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
154564		1.49	0.066	<0.005	<0.001	<0.2	<0.001	0.25	6.30	66.2	620	1.77	0.15	11.10	0.06	60.2
154565		2.70	0.051	<0.005	0.001	0.3	<0.001	0.31	7.83	91.3	710	2.43	0.26	4.21	0.13	60.5
155895		11.31	0.022	<0.005	<0.001	0.2	<0.001	0.25	7.09	31.5	730	1.63	0.13	2.77	0.07	54.1
155896		6.70	0.038	<0.005	0.001	<0.2	<0.001	0.13	6.10	41.9	670	1.39	0.12	6.36	0.08	46.4
155897		11.81	0.025	<0.005	<0.001	<0.2	<0.001	0.21	6.85	58.7	710	1.67	0.16	5.71	0.11	53.2
155898 155899 155900 155901 155902		11.95 5.32 5.91 6.46 8.75	0.017 0.068 0.032 0.034 0.032	<0.005 <0.005 <0.005 <0.005 <0.005	<0.001 0.002 <0.001 <0.001 <0.001	<0.2 <0.2 <0.2 <0.2 <0.2 <0.2	<0.001 <0.001 <0.001 <0.001 <0.001	0.14 0.24 0.19 0.13 0.15	7.13 6.20 6.42 6.19 6.49	64.7 54.5 33.4 30.9 35.7	680 730 610 650 650	1.67 1.42 1.50 1.33 1.68	0.14 0.14 0.15 0.12 0.15	2.84 9.35 6.37 5.34 7.43	0.07 0.10 0.12 0.11 0.12	58.5 51.9 57.3 52.4 52.8
155903		5.20	0.028	<0.005	<0.001	0.3	<0.001	0.38	6.56	31.0	620	1.46	0.14	6.11	0.12	52.8
155904		6.03	0.015	<0.005	<0.001	<0.2	<0.001	0.15	6.37	23.4	710	1.50	0.12	6.93	0.11	52.1
155905		4.72	0.073	<0.005	<0.001	1.3	<0.001	1.32	6.13	103.0	720	1.39	0.12	8.16	0.09	49.4
155906		10.96	0.015	<0.005	<0.001	0.3	<0.001	0.30	6.74	25.9	840	1.42	0.12	5.87	0.11	51.9
155907		4.60	0.017	<0.005	<0.001	0.6	<0.001	0.74	7.49	25.0	860	1.69	0.12	2.48	0.09	50.6
155908		4.72	0.060	<0.005	<0.001	1.1	<0.001	1.17	6.72	70.0	630	1.60	0.14	5.22	0.10	61.4
155909		0.06	0.011	0.005	<0.001	0.3	<0.001	0.41	7.12	21.8	990	1.97	0.59	1.54	0.10	36.9
155910		9.08	0.006	<0.005	<0.001	<0.2	<0.001	0.12	7.13	15.1	690	1.68	0.15	3.06	0.09	57.0
155911		3.62	0.051	<0.005	<0.001	0.8	<0.001	0.83	7.56	57.0	620	1.90	0.71	3.31	0.16	58.9
155912		4.25	0.052	<0.005	<0.001	0.5	<0.001	0.50	7.25	33.6	660	1.76	0.17	4.56	0.12	63.5
155913		13.09	0.045	<0.005	<0.001	0.3	<0.001	0.40	6.30	65.4	740	1.43	0.12	6.83	0.09	48.7
155914		4.61	0.039	<0.005	<0.001	1.0	<0.001	1.17	6.26	21.3	740	1.42	0.10	8.21	0.08	45.5
155915		12.83	0.009	<0.005	<0.001	0.2	<0.001	0.29	7.04	16.8	880	1.47	0.12	3.64	0.08	51.2
155916		7.14	0.019	<0.005	<0.001	0.8	<0.001	0.93	6.65	44.5	780	1.44	0.14	4.63	0.11	59.8
155917		12.87	0.008	<0.005	<0.001	0.2	<0.001	0.37	7.37	26.7	820	1.51	0.12	3.05	0.05	53.5
155918		11.60	0.013	<0.005	0.002	<0.2	<0.001	0.14	6.43	28.2	710	1.38	0.13	7.34	0.11	62.6
155919		18.92	0.033	<0.005	<0.001	<0.2	<0.001	0.10	7.10	36.4	690	1.73	0.16	4.08	0.17	60.7
155920		15.21	0.021	<0.005	<0.001	<0.2	<0.001	0.36	7.57	48.1	780	1.80	0.25	3.17	0.13	56.8
155921		32.02	0.062	<0.005	<0.001	1.8	<0.001	1.66	8.09	127.5	960	1.73	0.15	2.28	0.11	56.9
155922		30.19	0.024	<0.005	<0.001	<0.2	<0.001	0.22	6.23	40.8	830	1.55	0.17	9.64	0.11	47.7
155923		30.73	0.013	<0.005	<0.001	<0.2	<0.001	0.12	7.28	31.6	590	2.10	0.22	3.17	0.17	52.8
155924		9.81	0.020	<0.005	<0.001	0.2	<0.001	0.19	8.03	43.7	590	2.19	0.25	3.01	0.25	60.1
155925		13.21	0.016	<0.005	<0.001	<0.2	<0.001	0.16	7.48	31.7	590	2.02	0.20	3.32	0.19	56.9
155926		12.89	0.060	<0.005	<0.001	2.0	<0.001	1.91	7.57	95.6	740	1.48	0.16	2.75	0.11	69.5
155927		8.97	0.006	<0.005	<0.001	<0.2	<0.001	0.08	5.34	17.5	600	1.18	0.12	10.40	0.10	46.0
155928		10.91	0.003	<0.005	<0.001	<0.2	<0.001	0.13	7.19	11.3	770	1.73	0.12	5.68	0.14	61.9
155929		12.28	0.007	<0.005	0.003	<0.2	<0.001	0.10	6.66	16.9	760	1.42	0.11	9.52	0.12	53.9
155930		11.30	0.006	<0.005	<0.001	<0.2	<0.001	0.16	5.70	14.9	720	1.33	0.08	12.50	0.17	46.8
155931		8.31	0.011	<0.005	0.001	<0.2	<0.001	0.07	7.16	44.8	490	1.85	0.19	7.35	0.14	55.7
155932		3.61	0.068	<0.005	0.001	1.1	<0.001	1.25	8.25	113.0	680	2.32	0.22	3.40	0.17	56.4



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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
15.4564		7.0	00	5.04	40.0	0.40	40.05	0.47		0.054	4.44	04.0	00.4	4.00	000	0.40
154564		7.6	20	5.61	12.8	3.13	18.95	0.17	1.1	0.051	1.41	31.8	38.4	1.08	368	0.49
154565		11.2	37	7.68	20.0	3.76	23.0	0.12	1.3	0.058	1.95	30.0	50.0	1.07	637	0.89
155895		7.5	45	3.21	13.1	2.31	16.60	0.09	0.8	0.045	2.06	26.2	72.7	0.95	409	0.81
155896		8.0	32	3.03	14.3	2.06	14.50	0.13	0.7	0.037	1.75	22.5	107.5	1.36	379	1.38
155897		10.8	51	4.75	21.1	2.95	17.95	0.12	0.9	0.052	2.01	28.2	115.5	1.52	553	2.87
155898		11.1	42	3.52	17.6	2.67	17.15	0.12	8.0	0.044	1.98	25.4	69.7	1.18	516	0.85
155899		10.0	44	4.33	22.3	2.74	15.95	0.14	8.0	0.054	1.68	25.3	109.0	2.22	469	0.74
155900		8.8	34	3.68	19.2	2.50	15.95	0.15	8.0	0.044	1.73	28.9	102.5	1.82	446	0.65
155901		8.4	34	3.07	16.5	2.38	14.50	0.13	0.7	0.038	1.71	26.5	126.0	2.49	426	0.60
155902		9.5	30	4.67	17.9	2.47	17.00	0.13	1.1	0.049	1.72	27.8	184.5	1.32	415	0.86
155903		8.2	28	4.26	15.2	2.28	16.45	0.12	1.0	0.038	1.80	25.3	158.0	1.29	406	0.75
155904		7.0	25	3.19	11.9	2.13	15.00	0.17	0.9	0.032	1.82	28.4	97.8	0.97	420	0.60
155905		6.8	26	4.39	14.0	1.92	15.00	0.14	1.1	0.036	1.71	23.3	105.0	1.07	402	0.81
155906		5.5	22	2.90	8.9	1.80	15.75	0.15	1.0	0.035	1.88	24.7	74.2	0.62	415	0.67
155907		5.9	24	3.33	10.7	2.00	16.90	0.13	1.1	0.039	2.21	25.6	84.4	0.73	400	0.80
155908		7.5	26	4.67	16.3	2.42	16.80	0.15	1.2	0.043	1.85	31.7	144.0	1.20	443	0.81
155909		2.4	5	5.26	8.7	1.03	17.35	0.12	1.6	0.027	3.13	17.0	27.4	0.22	361	2.06
155910		9.0	27	4.61	13.6	2.52	17.85	0.12	1.4	0.042	2.20	28.2	154.5	0.99	471	0.78
155911		11.3	37	6.77	23.1	3.16	21.0	0.13	1.5	0.049	2.35	29.3	189.0	1.34	566	0.95
155912		10.0	33	5.82	20.3	2.98	19.35	0.13	1.5	0.052	2.08	30.5	158.0	1.30	548	0.83
155913		5.9	23	3.54	10.9	1.85	14.80	0.11	1.0	0.033	1.78	26.3	130.0	0.90	369	1.08
155914		4.8	18	2.33	8.7	1.66	14.00	0.16	1.0	0.028	1.68	23.9	119.5	0.89	307	0.91
155915		6.5	31	3.27	10.7	2.16	16.25	0.14	1.1	0.039	2.00	26.2	102.5	0.82	457	0.92
155916		6.9	24	3.47	12.8	2.15	16.45	0.14	1.0	0.046	1.89	29.8	62.4	0.74	432	0.81
155917		6.8	35	3.28	10.7	2.26	16.30	0.13	1.0	0.033	2.06	27.2	87.6	0.90	461	1.10
155918		7.7	28	3.64	13.8	2.26	16.05	0.15	1.1	0.039	1.71	32.3	77.8	0.93	353	1.19
155919		11.6	34	5.19	21.0	3.00	18.80	0.12	1.3	0.052	2.00	30.0	231	1.93	590	0.98
155920		9.5	32	4.57	18.2	2.71	19.05	0.12	1.2	0.045	2.11	28.3	116.0	1.22	503	1.42
155921		9.0	34	5.52	14.1	2.55	20.4	0.12	1.5	0.041	2.18	30.1	67.5	0.90	457	1.67
155922		10.9	30	6.04	23.7	2.84	17.20	0.12	1.4	0.050	1.73	23.5	206	1.98	446	0.74
155923		11.9	36	7.32	27.5	3.57	21.9	0.13	1.9	0.063	2.27	25.9	145.5	1.55	724	45.3
155924		12.9	39	8.21	32.0	3.91	24.9	0.11	2.0	0.068	2.44	30.3	159.0	1.71	770	13.90
155925		11.9	37	7.48	28.0	3.67	22.7	0.11	1.8	0.059	2.34	28.3	144.0	1.60	726	34.9
155926		10.0	41	3.80	18.6	2.90	18.50	0.15	0.8	0.050	2.06	35.5	45.4	1.04	540	0.84
155927		6.1	22	10.85	11.0	1.93	13.05	0.14	1.1	0.037	1.66	23.3	98.0	1.34	432	1.34
155928		8.0	23	2.63	17.0	2.60	17.95	0.12	0.9	0.045	1.94	29.0	49.0	1.28	515	0.75
155929		7.5	23	2.84	17.0	2.51	16.05	0.13	0.9	0.046	1.73	23.8	64.7	1.32	475	1.11
155930		6.2	20	2.42	15.8	2.03	14.30	0.13	0.8	0.031	1.53	21.1	88.0	1.53	399	3.23
155931		11.1	32	5.72	27.7	3.48	20.7	0.13	1.4	0.052	2.07	28.1	157.0	1.75	760	8.10
155932		14.2	56	8.42	34.9	4.16	25.4	0.14	1.6	0.069	2.38	26.3	145.5	1.79	748	2.29



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Name Color Color																	
Name		Method	ME-MS61r														
Sample Description Units			Na	Nb	Ni	Р	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
Sample Description LOO 0.1 0.1 0.2 10 0.5 0.1 0.002 0.01 0.05 0.1 1 0.2 0.2 0.05	l <u> </u>		%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm						
154965	Sample Description	LOD	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
155896 2.51 11.2 21.4 480 11.5 75.6																	



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								<u> </u>								
Sample Description	Method	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	ME-MS61r
	Analyte	Th	Ti	TI	U	V	W	Y	Zn	Zr	Dy	Er	Eu	Gd	Ho	Lu
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.01	0.005	0.02	0.1	1	0.1	0.1	2	0.5	0.05	0.03	0.03	0.05	0.01	0.01
154564		9.77	0.351	0.43	6.0	66	13.2	14.5	87	24.5	2.80	1.41	1.03	3.70	0.47	0.18
154565		12.20	0.356	0.62	3.0	76	25.3	16.5	97	37.1	3.19	1.71	1.01	3.89	0.57	0.24
155895		7.02	0.353	0.41	2.4	59	6.1	13.7	57	19.9	2.76	1.43	1.00	3.46	0.50	0.18
155896 155897		6.17 7.54 7.78	0.308 0.338	0.38 0.54	4.1 3.3 3.1	54 73 72	5.8 8.2 8.7	12.0 13.8	53 81 68	18.1 24.8	2.30 2.70 2.75	1.21 1.43	0.87 0.99	2.83 3.39	0.42 0.52	0.15 0.17 0.19
155898 155899 155900 155901		8.42 8.15 7.32	0.362 0.307 0.346 0.334	0.45 0.46 0.41 0.38	2.7 2.2 2.0	66 58 58	7.8 7.2 5.2	13.9 13.6 14.8 13.3	72 64 60	20.1 23.3 21.9 18.8	2.75 2.67 2.82 2.54	1.45 1.38 1.45 1.36	1.01 0.91 1.02 0.97	3.49 3.29 3.65 3.32	0.51 0.51 0.51 0.48	0.19 0.17 0.18 0.17
155902 155903 155904		7.13 7.30 6.74	0.272 0.272 0.333	0.44 0.43 0.41	2.8	53 48 56	4.8 4.0 5.3	12.4 12.5 13.0	66 61 54	32.2 32.2 27.0	2.34 2.48 2.49	1.26 1.31 1.28	0.88 0.93 0.95	3.00 3.07 3.21	0.42 0.45 0.46	0.16 0.17 0.17
155904 155905 155906 155907		7.05 6.55 6.68	0.333 0.281 0.327 0.328	0.46 0.40 0.36	2.8 2.4 1.8	56 49 51 56	5.3 4.9 5.5 4.2	12.1 12.8 13.7	54 56 42 50	29.7 30.3 32.2	2.34 2.54 2.63	1.24 1.32 1.41	0.85 1.00 0.99	2.89 3.37 3.17	0.42 0.46 0.49	0.17 0.16 0.17 0.17
155908		7.82	0.309	0.39	2.3	54	3.9	14.0	62	35.4	2.67	1.37	0.99	3.40	0.49	0.16
155909		10.80	0.151	0.68	4.3	25	5.4	12.4	39	30.1	2.22	1.21	0.56	2.54	0.40	0.17
155910		7.87	0.321	0.43	1.7	55	3.6	13.2	69	41.4	2.69	1.39	0.99	3.39	0.48	0.17
155911		8.51	0.326	0.53	1.8	65	5.0	15.5	90	49.1	2.95	1.61	0.99	3.73	0.54	0.21
155912		9.00	0.332	0.47	1.7	60	4.4	17.6	82	44.3	3.16	1.71	1.06	3.88	0.57	0.22
155913		6.37	0.317	0.40	3.0	59	4.6	11.7	49	30.8	2.36	1.24	0.88	2.89	0.42	0.15
155914		6.20	0.296	0.33	2.8	47	3.5	11.9	41	28.8	2.30	1.21	0.91	2.92	0.40	0.15
155915		6.85	0.360	0.42	2.7	64	5.4	13.3	54	32.4	2.66	1.42	0.98	3.26	0.48	0.17
155916		9.22	0.355	0.40	2.2	54	5.0	14.0	50	26.4	2.81	1.41	1.07	3.70	0.51	0.16
155917		7.02	0.386	0.39	3.2	58	5.9	13.5	53	28.3	2.73	1.40	1.01	3.43	0.50	0.16
155918		8.04	0.324	0.36	3.3	54	4.8	14.9	55	31.8	2.84	1.45	1.07	3.57	0.51	0.18
155919		8.34	0.335	0.46	1.8	69	5.0	15.0	87	38.6	2.87	1.57	1.01	3.61	0.53	0.20
155920		12.05	0.377	0.46	1.9	68	5.8	15.3	72	35.9	3.09	1.61	1.07	3.75	0.56	0.20
155921		7.55	0.340	0.55	2.2	66	6.0	14.6	68	46.5	2.85	1.52	1.09	3.59	0.52	0.18
155922 155923 155924		7.94 8.94 10.75	0.240 0.336 0.341	0.46 0.57 0.63	2.8 2.5 3.0	73 79	5.3 6.0	12.0 14.0 16.2	114 124	57.6 63.2	2.32 2.84 3.17	1.26 1.50 1.68	0.72 0.87 1.00	2.84 3.43 3.96	0.42 0.52 0.58	0.15 0.19 0.21
155925		9.81	0.335	0.57	2.6	75	4.9	14.8	117	59.4	2.91	1.46	0.94	3.44	0.53	0.19
155926		10.25	0.432	0.48	2.1	79	17.9	18.9	69	22.0	3.68	1.90	1.29	4.65	0.66	0.23
155927		7.04	0.317	0.39	5.9	78	8.5	11.7	57	29.0	2.22	1.16	0.80	2.79	0.40	0.15
155928		9.53	0.367	0.38	2.8	64	2.7	15.3	67	22.3	3.09	1.57	1.06	3.89	0.53	0.19
155929		7.23	0.334	0.37	4.1	70	3.3	13.7	66	23.4	2.67	1.38	0.89	3.23	0.46	0.18
155930		6.00	0.275	0.34	4.4	53	2.3	11.4	56	21.1	2.21	1.18	0.72	2.64	0.38	0.14
155931		8.88	0.344	0.51	4.7	80	6.2	13.7	105	41.3	2.63	1.42	0.83	3.24	0.45	0.17
155932		9.34	0.368	0.71	2.3	89	12.3	15.1	121	50.7	3.01	1.66	0.91	3.61	0.53	0.20



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(ALS)							
								CERTIFICATE OF ANALYSIS RE19316786
	Method	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	
	Analyte	Nd	Pr	Sm	Tb	Tm	Yb	
	Units	ppm	ppm	ppm	ppm	ppm	ppm	
Sample Description	LOD	0.1	0.03	0.03	0.01	0.01	0.03	
154564		29.2	7.13	5.03	0.46	0.18	1.25	
154565		25.4	6.68	4.90	0.55	0.25	1.69	
155895		22.7	5.95	4.21	0.47	0.20	1.37	
155896		20.0	5.17	3.76	0.40	0.15	1.05	
155897		23.3	6.08	4.25	0.45	0.18	1.32	
155898		23.4	6.10	4.26	0.47	0.19	1.36	
155899		21.7	5.67	4.09	0.43	0.17	1.25	
155900		24.8	6.40	4.57	0.49	0.18	1.38	
155901		22.5	5.87	4.10	0.46	0.18	1.24	
155902		21.6	5.71	3.90	0.42	0.17	1.19	
155903		21.3	5.65	3.90	0.42	0.17	1.25	
155904		22.2	5.81	3.97	0.43	0.17	1.13	
155905		20.1	5.21	3.71	0.40	0.17	1.25	
155906		22.1	5.82	4.11	0.45	0.18	1.21	
155907		22.2	5.83	4.12	0.47	0.19	1.34	
155908		26.1	6.82	4.65	0.49	0.18	1.26	
155909		16.4	4.27 6.11	3.34	0.36 0.47	0.16	1.29	
155910 155911		23.3 24.7	6.56	4.26 4.62	0.47	0.19 0.19	1.26 1.50	
155912		25.7	6.70	4.89	0.53	0.13	1.69	
155913		20.5	5.47	3.86	0.40	0.16	1.08	
155914		20.1	5.29	3.87	0.38	0.16	1.02	
155915		22.6	5.86	4.20	0.47	0.17	1.24	
155916		25.6	6.76	4.90	0.51	0.18	1.32	
155917		24.0	6.17	4.44	0.49	0.19	1.29	
155918		25.9	6.77	4.68	0.48	0.19	1.30	
155919		25.0	6.49	4.51	0.52	0.20	1.42	
155920		24.1	6.31	4.64	0.52	0.20	1.52	
155921		24.1	6.42	4.44	0.49	0.20	1.38	
155922		19.7	5.20	3.60	0.39	0.16	1.18	
155923		22.1	5.85	4.24	0.49	0.20	1.46	
155924		25.6	6.67	4.83	0.55	0.22	1.63	
155925		23.8	6.19	4.44	0.50	0.19	1.45	
155926		30.6	7.94	5.77	0.64	0.26	1.72	
155927		19.6	5.15	3.74	0.38	0.14	1.06	
155928		26.8	6.51	4.81	0.56	0.21	1.43	
155929		23.4	5.50	4.20	0.46	0.17	1.22	
155930		20.2	4.92	3.65	0.37	0.16	1.04	
155931		23.0	5.78	4.27	0.45	0.18	1.31	
155932		24.7	5.92	4.57	0.53	0.21	1.47	



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							CERTIFICATE OF ANALYSIS RE1931678								
WEI-21 Recvd Wt. kg	PGM-ICP23 Au ppm	PGM-ICP23 Pt ppm	PGM-ICP23 Pd ppm	Ag-AA45 Ag ppm	Rh-MS25 Rh ppm	ME-MS61r Ag ppm	ME-MS61r Al %	ME-MS61r As ppm	ME-MS61r Ba ppm	ME-MS61r Be ppm	ME-MS61r Bi ppm	ME-MS61r Ca %	ME-MS61r Cd ppm	ME-MS61r 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	
8.66	0.033	< 0.005	<0.001	<0.2	<0.001	0.17	7.34	64.0	730	1.90	0.16	4.22	0.17	56.7	

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
155933		8.66	0.033	<0.005	<0.001	<0.2	<0.001	0.17	7.34	64.0	730	1.90	0.16	4.22	0.17	56.7
155934		3.26	0.040	< 0.005	< 0.001	0.3	< 0.001	0.27	8.03	52.6	650	2.16	0.20	3.26	0.15	54.1
155935		0.06	0.011	< 0.005	< 0.001	0.4	< 0.001	0.38	7.08	22.0	1000	1.92	0.53	1.49	0.11	35.9
155861		33.56	0.005	< 0.005	< 0.001	< 0.2	< 0.001	0.16	5.28	27.4	540	1.12	0.11	10.60	0.15	42.6
155868		8.08	0.005	< 0.005	<0.001	<0.2	< 0.001	0.15	5.69	16.5	650	1.29	0.11	11.05	0.16	44.8
155888		34.80	0.013	<0.005	<0.001	<0.2	<0.001	0.11	7.70	32.3	590	2.18	0.23	3.46	0.18	52.5
155889		32.94	0.012	< 0.005	0.001	<0.2	< 0.001	0.10	7.69	30.6	600	2.18	0.22	3.15	0.19	49.0



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

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

	C	ERTIFIC	CATE O	F ANAL	_YSIS	RE193	16786	
ME-MS61r								
Ge	Hf	In	K	La	Li	Mg	Mn	Mo
mag	maa	mag	%	mag	mag	%	mag	mag

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
155933 155934 155935 155861 155868		11.8 13.3 2.2 6.2 6.0	56 51 5 22 20	5.76 7.85 4.99 4.10 3.19	25.6 32.6 9.1 13.4 13.5	3.44 4.07 1.05 2.03 1.99	21.2 24.5 17.60 13.50 14.40	0.11 0.14 0.11 0.13 0.13	1.2 1.6 1.6 1.1	0.050 0.067 0.027 0.033 0.034	2.16 2.26 3.06 1.62 1.66	28.2 25.1 15.5 19.6 21.3	129.5 139.0 26.3 285 168.5	1.59 1.73 0.22 2.20 1.72	645 731 355 396 379	3.19 3.80 1.98 1.78 1.08
155888 155889		12.2 11.8	38 40	7.43 7.34	33.0 32.5	4.00 4.03	24.8 24.1	0.14 0.11	2.0	0.074 0.061	2.32 2.34	24.2 21.3	163.0 166.0	1.73 1.73	738 728	22.4 22.2



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	,								C	ERTIFI	CATE O	F ANA	LYSIS	RE193	16786	
Sample Description	Method Analyte Units LOD	ME-MS61 r Na % 0.01	ME-MS61r Nb ppm 0.1	ME-MS61r Ni ppm 0.2	ME-MS61r P ppm 10	ME-MS61r Pb ppm 0.5	ME-MS61r Rb ppm 0.1	ME-MS61r Re ppm 0.002	ME-MS61r S % 0.01	ME-MS61r Sb ppm 0.05	ME-MS61r Sc ppm 0.1	ME-MS61r Se ppm 1	ME-MS61r Sn ppm 0.2	ME-MS61r Sr ppm 0.2	ME-MS61r Ta ppm 0.05	ME-MS611 Te ppm 0.05
155933 155934 155935 155861 155868		1.87 1.74 2.58 2.79 2.09	11.5 10.3 14.1 8.3 8.2	37.8 35.0 2.3 14.0 13.1	900 900 340 560 590	14.4 14.3 22.8 9.3 9.7	84.4 82.9 128.0 76.4 69.2	<0.002 0.002 <0.002 <0.002 <0.002	0.62 0.49 0.02 0.35 0.03	9.85 9.67 5.65 5.27 4.78	10.6 11.5 3.4 6.0 6.0	1 3 1 1 <1	1.8 2.1 1.4 1.3 1.4	523 429 349 1270 1510	0.76 0.69 1.21 0.56 0.52	<0.05 0.05 0.12 <0.05 <0.05
155888 155889		2.27 2.55	11.0 10.9	28.1 27.2	990 990	15.7 15.0	84.2 83.0	0.011 0.008	1.44 1.36	5.53 5.05	11.3 10.9	1 1	2.3 2.3	426 378	0.72 0.71	<0.05 <0.05



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CERTIFICATE OF ANALYSIS RE19

									C	ERTIFI	CATE O	F ANA	LYSIS	RE193	316786	
Sample Description	Method Analyte Units LOD	ME-MS61r Th ppm 0.01	ME-MS61 r Ti % 0.005	ME-MS61r TI ppm 0.02	ME-MS61r U ppm 0.1	ME-MS61r V ppm 1	ME-MS61r W ppm 0.1	ME-MS61r Y ppm 0.1	ME-MS61r Zn ppm 2	ME-MS61r Zr ppm 0.5	ME-MS61r Dy ppm 0.05	ME-MS61r Er ppm 0.03	ME-MS61r Eu ppm 0.03	ME-MS61 r Gd ppm 0.05	ME-MS61r Ho ppm 0.01	ME-MS61 Lu ppm 0.01
155933 155934 155935 155861 155868		8.14 8.65 10.50 5.95 6.14	0.384 0.351 0.151 0.274 0.263	0.57 0.58 0.68 0.35 0.37	2.8 2.2 4.0 9.8 10.5	83 83 25 76 57	8.3 7.1 5.3 4.9 2.8	15.0 14.4 11.9 11.1 11.2	102 118 40 57 55	33.4 52.6 29.8 33.5 29.4	2.90 2.91 2.18 2.11 2.11	1.49 1.53 1.18 1.14 1.10	0.97 0.88 0.51 0.70 0.70	3.63 3.43 2.53 2.62 2.64	0.51 0.49 0.37 0.37 0.38	0.17 0.18 0.17 0.14 0.13
155888 155889		9.35 8.76	0.359 0.362	0.60 0.59	2.7 2.4	80 81	5.3 5.0	14.5 13.7	121 123	59.5 59.9	2.95 2.82	1.62 1.47	0.90 0.83	3.58 3.34	0.51 0.51	0.21 0.20



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)							
(ALS								CERTIFICATE OF ANALYSIS RE19316786
ample Description	Method Analyte Units LOD	ME-MS61 r 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	
55933 55934 55935 55861 55868		26.0 24.1 16.3 18.4 19.8	6.20 5.83 4.01 4.51 4.73	4.77 4.44 3.30 3.43 3.62	0.50 0.49 0.36 0.37 0.36	0.19 0.20 0.16 0.14 0.14	1.37 1.41 1.13 1.00 1.03	
55888 55889		23.7 21.9	5.70 5.35	4.37 4.16	0.53 0.50	0.21 0.20	1.47 1.44	



ALS USA Inc. 4977 Energy Way Reno NV 89502 Phone: +1 775 356 5395 Fax: +1 775 355 0179 www.alsglobal.com/geochemistry

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Page: Appendix 1 Total # Appendix Pages: 1 Finalized Date: 8-JAN-2020 Account: KEERRG

CERTIFICATE OF ANALYSIS	RE19316786
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	CERTIFICAT	E COMMENTS	
		ANALYTICAL COMMENTS	
Applies to Method:	REE's may not be totally soluble in this method. ME-MS61r	THE TEST COMMENTS	
		LABORATORY ADDRESSES	
	Processed at ALS Reno located at 4977 Energy Way, Re		
Applies to Method:	DRY-22 LOG-22 SND-ALS WEI-21	LOG-24	SCR-41
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Ag-AA45 ME-MS61r	Hwy, North Vancouver, BC, Canada. PGM-ICP23	Rh-MS25