



ALS Canada Ltd.  
2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **SILVER RANGE RESOURCES LTD.**  
**C/O ARCHER, CATHRO & ASSOCIATES (1981)**  
**LIMITED**  
**1016-510 W HASTINGS ST**  
**VANCOUVER BC V6B 1L8**

Page: 1  
Finalized Date: 9-SEP-2012  
Account: RANSIL

**CERTIFICATE WH12195389**

Project: VAT Claims

P.O. No.:

This report is for 135 Soil samples submitted to our lab in Whitehorse, YT, Canada on 20-AUG-2012.

The following have access to data associated with this certificate:

MATT DUMALA

JOAN MARIACHER

HEATHER SMITH

**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

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS
Au-ICP21	Au 30g FA ICP-AES Finish ICP-AES

To: **SILVER RANGE RESOURCES LTD.**  
**ATTN: JOAN MARIACHER**  
**C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**  
**1016-510 W HASTINGS ST**  
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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:

Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH12195389**

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ61701		0.26	0.002	0.09	6.75	12.7	810	1.45	0.31	1.91	0.10	44.2	7.5	24	2.91	17.5
ZZ61702		0.34	<0.001	0.12	5.33	11.2	780	1.93	0.64	0.77	0.18	59.6	5.0	50	4.75	11.6
ZZ61703		0.33	<0.001	0.11	7.37	11.8	940	3.30	0.94	1.15	0.19	71.4	9.0	56	7.28	19.5
ZZ61704		0.42	0.002	0.10	6.93	9.5	910	2.84	0.79	1.19	0.18	63.4	7.2	49	6.56	14.1
ZZ61705		0.36	0.001	0.07	6.78	8.2	890	2.51	0.73	1.18	0.16	61.9	7.3	42	6.52	15.7
ZZ61706		0.28	<0.001	0.08	7.51	2.7	810	1.23	0.14	2.67	0.07	29.6	8.8	9	1.23	17.0
ZZ61707		0.29	<0.001	0.06	6.55	4.8	820	1.80	0.48	1.46	0.11	55.5	5.0	30	4.22	14.5
ZZ61708		0.33	0.001	0.10	6.85	9.4	870	3.17	0.86	1.11	0.21	69.1	7.4	47	6.67	17.4
ZZ61709		0.32	0.001	0.10	6.88	6.5	890	2.26	0.54	1.43	0.15	61.9	6.2	40	4.89	13.5
ZZ61710		0.36	0.002	0.11	7.54	3.5	670	3.47	0.45	1.75	0.17	93.7	6.9	27	4.26	14.2
ZZ61711		0.36	0.001	0.08	6.86	9.3	900	2.69	0.61	1.28	0.41	60.3	8.5	58	5.59	16.3
ZZ61712		0.37	0.001	0.10	6.75	7.0	870	1.85	0.42	1.46	0.21	50.8	6.6	35	4.22	17.4
ZZ61713		0.33	0.001	0.12	6.81	4.6	790	1.59	0.27	1.76	0.15	44.4	8.3	27	3.19	18.5
ZZ61714		0.28	0.001	0.18	7.07	3.4	750	1.59	0.22	2.32	0.16	35.0	10.8	20	1.96	20.8
ZZ61715		0.23	0.001	0.08	7.13	3.3	910	1.48	0.18	1.88	0.10	36.5	5.2	11	2.19	17.1
ZZ61716		0.40	0.001	0.16	7.48	2.8	790	2.49	0.49	1.99	0.15	53.4	7.2	23	4.87	13.0
ZZ61717		0.25	0.002	0.09	6.90	8.2	840	3.11	0.60	1.44	1.15	68.5	8.4	48	7.02	15.5
ZZ61718		0.46	0.001	0.13	7.68	2.9	720	3.28	0.53	2.00	0.14	60.7	7.2	20	6.31	12.9
ZZ61719		0.39	0.001	0.08	6.85	2.7	760	2.61	0.50	1.45	0.14	76.5	4.1	26	6.75	11.6
ZZ61720		0.43	0.001	0.08	7.17	6.9	870	3.00	0.60	1.30	0.16	64.2	7.3	44	5.80	16.6
ZZ61721		0.30	0.001	0.07	6.98	3.2	770	2.09	0.36	1.81	0.23	52.2	7.2	28	3.66	14.5
ZZ61722		0.31	0.001	0.14	7.81	5.8	870	4.63	0.88	1.03	0.14	82.8	7.5	45	7.88	16.0
ZZ61723		0.41	0.001	0.18	8.16	3.6	750	4.53	1.29	1.55	0.07	64.8	6.6	25	12.25	16.1
ZZ61724		0.29	0.001	0.17	7.21	2.0	890	1.91	0.25	1.97	0.05	37.5	5.4	8	2.38	19.4
ZZ61725		0.38	0.002	0.08	6.61	7.4	850	1.72	0.45	1.57	0.09	51.2	8.4	45	5.38	21.1
ZZ61726		0.40	0.001	0.07	7.18	4.5	750	2.97	0.52	1.30	0.11	71.4	6.4	38	5.80	11.8
ZZ61727		0.34	0.001	0.07	6.43	6.7	740	3.19	0.76	0.82	0.22	82.3	5.2	43	6.92	10.2
ZZ61728		0.34	0.002	0.15	7.23	3.1	730	2.96	0.43	1.75	0.15	61.5	8.9	29	4.01	15.1
ZZ61729		0.32	0.001	0.23	7.01	5.7	820	3.57	0.86	1.13	0.24	63.1	6.8	43	9.59	14.6
ZZ61730		0.37	0.001	0.30	7.32	2.7	770	3.20	0.74	1.87	0.12	49.6	6.7	21	7.98	16.8
ZZ61731		0.32	0.001	0.19	6.78	2.4	810	1.96	0.35	1.83	0.12	39.2	7.1	15	3.23	18.5
ZZ61732		0.35	0.002	0.15	8.73	5.4	830	4.56	0.88	0.67	0.46	104.0	15.7	54	16.55	31.7
ZZ61733		0.42	0.003	0.13	7.63	9.1	860	5.59	1.73	0.93	0.39	88.9	9.5	63	14.05	23.7
ZZ61734		0.33	0.002	0.47	9.00	7.0	530	7.68	2.23	0.35	0.31	71.2	7.8	38	24.8	30.6
ZZ61735		0.44	0.004	0.17	5.66	10.6	830	3.14	0.88	0.81	0.23	74.1	7.6	64	5.94	16.5
ZZ61736		0.35	0.002	0.15	7.61	8.8	720	5.75	1.38	0.72	0.30	80.1	14.4	68	12.35	28.7
ZZ61737		0.38	0.003	0.24	7.34	7.4	710	5.84	3.27	0.64	0.32	97.5	15.5	65	14.95	35.3
ZZ61738		0.40	0.002	0.21	7.47	5.8	780	4.87	1.69	1.17	0.29	54.7	8.5	38	8.79	30.3
ZZ61739		0.36	0.003	0.22	8.26	8.7	650	5.84	1.49	1.01	0.50	99.0	15.0	52	14.05	29.7
ZZ61740		0.38	0.001	0.14	7.73	11.0	660	4.60	1.14	1.11	0.25	106.5	11.8	51	11.70	23.9



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**CERTIFICATE OF ANALYSIS WH12195389**

Sample Description	Method Analyte Units LOR	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
ZZ61701		2.46	18.15	0.10	3.1	0.029	1.88	22.1	24.7	0.72	509	1.61	2.04	9.0	10.3	1090
ZZ61702		2.54	17.50	0.14	2.0	0.042	1.76	30.1	33.5	0.47	366	1.51	1.05	13.6	14.9	580
ZZ61703		3.06	22.7	0.15	2.7	0.061	2.03	35.4	65.6	0.76	544	1.61	1.43	13.8	21.7	1430
ZZ61704		2.73	21.2	0.14	2.5	0.046	2.14	31.9	43.4	0.63	539	1.68	1.46	13.5	16.1	1190
ZZ61705		2.52	20.9	0.15	2.8	0.050	2.03	31.6	45.0	0.63	468	1.70	1.49	13.1	16.1	990
ZZ61706		2.50	18.25	0.11	3.3	0.024	2.01	15.1	18.8	0.92	429	1.53	2.75	6.0	8.0	440
ZZ61707		2.00	20.3	0.14	2.9	0.035	2.07	28.4	26.4	0.53	338	1.56	1.79	11.0	9.8	920
ZZ61708		2.59	21.4	0.16	2.5	0.052	2.08	34.8	52.7	0.63	617	1.55	1.41	13.0	17.2	1370
ZZ61709		2.45	19.30	0.13	2.7	0.040	2.09	31.4	35.7	0.65	407	1.49	1.63	11.5	13.0	930
ZZ61710		2.22	20.5	0.20	2.4	0.036	2.50	46.6	44.5	0.67	323	0.81	1.95	8.8	13.2	1060
ZZ61711		2.98	19.00	0.15	2.3	0.047	2.10	30.5	43.4	0.80	537	1.57	1.40	12.3	20.0	1250
ZZ61712		2.46	18.75	0.13	2.9	0.038	1.93	25.9	32.1	0.64	472	1.68	1.74	10.7	12.9	970
ZZ61713		2.76	18.60	0.14	2.9	0.033	1.86	22.7	23.6	0.70	450	1.75	1.88	8.9	11.7	1040
ZZ61714		2.67	17.25	0.14	2.8	0.030	1.63	18.1	21.0	0.91	700	1.62	2.13	6.7	11.6	1220
ZZ61715		1.68	18.25	0.11	3.5	0.022	2.22	19.1	22.8	0.54	363	1.69	2.54	7.3	6.1	670
ZZ61716		2.47	20.3	0.15	2.9	0.036	2.25	27.2	40.9	0.76	376	1.25	2.15	8.6	11.1	910
ZZ61717		2.71	19.90	0.16	2.4	0.048	1.85	34.0	58.0	0.77	549	1.42	1.49	11.5	18.5	1250
ZZ61718		2.37	21.2	0.16	2.8	0.039	2.12	31.0	56.4	0.80	396	1.17	2.10	9.1	10.5	870
ZZ61719		1.75	21.5	0.15	3.0	0.034	2.31	38.7	37.7	0.46	274	1.33	1.88	10.2	8.1	930
ZZ61720		2.60	20.1	0.13	2.6	0.046	2.11	32.8	47.3	0.70	492	1.53	1.58	11.4	17.2	1120
ZZ61721		2.41	18.85	0.14	2.9	0.036	1.96	26.7	31.2	0.72	506	1.24	1.95	8.7	11.1	900
ZZ61722		2.44	24.4	0.17	2.8	0.057	2.29	41.6	74.7	0.65	438	1.26	1.48	14.3	19.4	1100
ZZ61723		2.30	24.1	0.15	3.1	0.047	2.22	33.1	100.0	0.67	392	1.62	1.91	11.2	11.7	990
ZZ61724		1.73	18.65	0.14	3.6	0.021	2.09	20.7	28.5	0.54	403	1.71	2.49	6.5	5.3	650
ZZ61725		3.07	20.0	0.16	2.9	0.043	1.69	26.7	29.7	0.82	451	1.99	1.53	12.8	16.2	1010
ZZ61726		2.45	22.8	0.15	2.9	0.042	2.43	36.1	44.5	0.69	365	0.96	1.63	12.0	13.2	720
ZZ61727		2.34	21.4	0.16	2.3	0.046	2.42	40.7	49.9	0.49	334	1.15	1.23	12.3	13.8	1200
ZZ61728		2.70	18.85	0.16	2.6	0.038	1.96	30.0	40.2	0.75	1190	1.57	1.85	9.0	11.6	1100
ZZ61729		2.56	21.4	0.15	2.4	0.048	2.09	32.4	64.6	0.64	604	1.75	1.38	12.2	15.8	1350
ZZ61730		2.23	20.8	0.15	3.1	0.040	1.88	28.5	58.8	0.67	470	2.05	1.92	8.9	10.6	1140
ZZ61731		1.98	17.70	0.14	3.3	0.026	1.84	21.5	29.2	0.60	729	1.68	2.09	7.1	7.4	1230
ZZ61732		4.65	24.0	0.21	1.9	0.076	2.10	49.8	115.5	0.86	943	1.97	0.98	16.0	34.7	1160
ZZ61733		3.55	24.3	0.15	2.5	0.065	2.13	43.8	107.0	0.76	620	1.52	1.25	15.6	27.4	920
ZZ61734		3.80	37.3	0.13	1.9	0.057	2.51	34.9	165.0	0.54	381	1.39	0.63	11.7	20.9	1560
ZZ61735		3.25	19.65	0.16	1.8	0.047	1.69	34.9	37.7	0.62	420	1.70	1.17	14.2	20.4	1110
ZZ61736		4.12	27.0	0.16	1.7	0.053	2.41	36.6	113.0	0.71	601	1.57	1.23	16.5	30.7	910
ZZ61737		4.09	27.2	0.17	1.8	0.061	2.05	43.4	139.5	0.70	848	2.29	1.14	15.8	34.2	950
ZZ61738		2.92	26.0	0.14	2.5	0.045	2.13	26.9	98.9	0.64	450	1.59	1.72	12.7	18.8	880
ZZ61739		3.90	30.1	0.17	2.3	0.057	2.33	47.5	115.5	0.77	839	1.32	1.49	15.1	28.8	1180
ZZ61740		3.83	27.4	0.18	2.1	0.050	2.10	51.2	102.5	0.79	473	1.37	1.44	13.7	24.5	1230



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		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.1
ZZ61701		13.8	70.6	<0.002	0.04	0.63	7.5	1	1.6	464	0.63	<0.05	7.4	0.335	2.6
ZZ61702		24.5	111.0	<0.002	0.03	1.03	7.7	2	2.7	143.0	0.97	<0.05	10.7	0.356	2.8
ZZ61703		31.2	131.0	<0.002	0.05	1.17	10.4	2	3.9	228	1.00	<0.05	14.0	0.381	7.1
ZZ61704		27.3	129.5	<0.002	0.04	0.95	9.2	2	3.6	242	1.00	<0.05	11.5	0.385	5.2
ZZ61705		25.7	118.0	<0.002	0.04	0.93	9.1	2	3.5	271	1.00	<0.05	10.8	0.357	6.6
ZZ61706		9.4	44.4	<0.002	0.02	0.37	7.4	1	0.8	715	0.42	<0.05	4.6	0.333	1.8
ZZ61707		19.3	91.3	<0.002	0.03	0.73	7.2	2	2.7	361	0.80	<0.05	9.9	0.335	2.9
ZZ61708		29.0	127.0	<0.002	0.05	1.04	9.0	2	3.7	227	0.96	<0.05	12.7	0.348	6.6
ZZ61709		22.6	106.0	<0.002	0.04	0.79	8.1	2	2.7	318	0.85	<0.05	10.8	0.356	4.2
ZZ61710		31.6	124.5	<0.002	0.04	0.58	7.8	2	3.2	333	0.70	<0.05	17.5	0.327	7.4
ZZ61711		27.9	115.0	<0.002	0.05	1.00	9.6	2	3.1	249	0.90	<0.05	11.0	0.381	7.2
ZZ61712		19.2	86.4	<0.002	0.04	0.82	7.5	2	2.1	366	0.77	<0.05	8.5	0.333	3.9
ZZ61713		15.5	72.8	<0.002	0.05	0.63	7.6	2	1.6	441	0.64	<0.05	7.1	0.366	3.3
ZZ61714		15.9	49.9	<0.002	0.05	0.51	7.9	2	1.0	570	0.47	<0.05	5.3	0.321	4.9
ZZ61715		12.4	67.2	<0.002	0.02	0.50	5.2	1	1.1	551	0.53	<0.05	5.8	0.236	2.5
ZZ61716		22.5	92.2	<0.002	0.04	0.51	7.6	2	2.7	451	0.66	<0.05	10.2	0.358	6.2
ZZ61717		27.6	109.5	<0.002	0.05	1.08	9.7	2	3.1	277	0.86	<0.05	12.7	0.357	8.0
ZZ61718		21.7	95.8	<0.002	0.04	0.59	7.9	2	3.1	450	0.73	<0.05	10.9	0.332	8.2
ZZ61719		22.6	110.0	<0.002	0.04	0.67	6.5	2	3.5	333	0.83	<0.05	14.7	0.306	5.4
ZZ61720		26.8	112.5	<0.002	0.06	0.89	8.8	2	3.2	288	0.89	<0.05	12.0	0.340	6.8
ZZ61721		18.3	80.6	<0.002	0.05	0.57	7.5	2	2.2	431	0.66	<0.05	9.2	0.320	3.5
ZZ61722		30.3	144.0	<0.002	0.06	1.24	9.9	2	5.4	212	1.18	<0.05	15.2	0.356	10.0
ZZ61723		28.5	118.0	<0.002	0.03	0.87	8.4	2	4.6	375	0.99	<0.05	12.5	0.304	22.5
ZZ61724		12.4	55.5	<0.002	0.03	0.50	4.8	1	1.0	548	0.48	<0.05	5.9	0.229	10.8
ZZ61725		16.0	80.9	<0.002	0.04	1.00	9.7	2	2.3	362	0.87	<0.05	8.5	0.434	3.8
ZZ61726		26.0	127.0	<0.002	0.03	0.57	8.6	2	4.6	286	0.97	<0.05	13.7	0.376	4.1
ZZ61727		30.4	147.5	<0.002	0.05	0.82	7.8	2	4.4	161.0	0.99	<0.05	15.2	0.327	5.4
ZZ61728		21.9	84.5	<0.002	0.06	0.55	8.0	2	2.5	394	0.69	<0.05	10.9	0.358	9.2
ZZ61729		27.1	125.5	<0.002	0.07	0.84	8.6	2	4.1	242	0.97	<0.05	12.0	0.335	11.5
ZZ61730		20.1	81.0	<0.002	0.07	0.52	8.0	2	2.7	438	0.72	<0.05	9.6	0.295	31.0
ZZ61731		15.1	63.2	<0.002	0.07	0.50	6.1	1	1.5	479	0.57	<0.05	6.5	0.257	8.9
ZZ61732		31.4	140.5	<0.002	0.06	1.61	16.6	2	4.6	160.5	1.20	<0.05	15.7	0.482	7.2
ZZ61733		50.3	152.5	<0.002	0.04	2.00	10.4	2	6.8	169.5	1.42	<0.05	15.5	0.419	10.7
ZZ61734		74.2	228	0.002	0.10	2.54	8.5	1	10.2	91.7	1.12	<0.05	12.7	0.271	19.4
ZZ61735		28.5	97.4	<0.002	0.05	1.40	9.6	1	3.8	150.0	1.10	<0.05	12.6	0.397	5.9
ZZ61736		29.2	141.0	0.002	0.03	1.61	12.6	2	7.9	140.0	1.55	<0.05	13.9	0.453	7.5
ZZ61737		38.5	140.0	0.002	0.05	2.28	11.2	1	8.0	137.5	1.37	<0.05	16.7	0.409	8.8
ZZ61738		26.9	130.5	0.002	0.05	2.53	8.3	2	7.5	312	1.24	<0.05	9.6	0.299	8.1
ZZ61739		38.7	179.5	<0.002	0.06	4.16	11.2	2	7.8	220	1.33	<0.05	18.3	0.397	11.7
ZZ61740		32.3	150.0	0.002	0.07	2.47	11.3	2	6.7	248	1.17	<0.05	18.0	0.418	7.9



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Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
ZZ61701		85	1.1	9.7	62	112.0
ZZ61702		111	2.7	10.3	66	70.9
ZZ61703		112	3.3	14.0	101	95.6
ZZ61704		112	2.7	11.9	74	86.7
ZZ61705		100	2.3	11.8	73	96.0
ZZ61706		73	0.6	8.9	57	121.5
ZZ61707		83	1.8	9.6	57	106.5
ZZ61708		97	2.9	12.4	85	89.5
ZZ61709		97	2.3	11.5	69	94.2
ZZ61710		72	2.4	16.3	63	82.8
ZZ61711		113	2.0	13.3	95	81.4
ZZ61712		91	1.4	10.5	72	105.0
ZZ61713		96	1.8	9.8	65	106.0
ZZ61714		81	0.8	10.3	61	103.5
ZZ61715		46	0.8	8.2	51	133.5
ZZ61716		80	1.2	10.5	70	103.5
ZZ61717		100	1.6	13.2	91	84.3
ZZ61718		71	1.2	11.9	69	98.9
ZZ61719		62	1.7	10.2	50	105.5
ZZ61720		91	1.9	12.3	79	89.4
ZZ61721		77	1.1	10.2	62	101.0
ZZ61722		86	2.3	14.0	90	93.2
ZZ61723		65	1.6	13.1	88	106.5
ZZ61724		41	0.7	9.7	53	136.5
ZZ61725		126	1.5	11.6	72	109.5
ZZ61726		82	1.8	10.3	63	97.2
ZZ61727		84	1.9	11.0	68	75.0
ZZ61728		86	1.1	11.6	69	92.8
ZZ61729		87	1.7	11.3	94	82.3
ZZ61730		65	1.1	12.3	83	109.5
ZZ61731		54	0.9	9.7	57	117.0
ZZ61732		137	3.8	21.2	162	59.0
ZZ61733		115	3.0	14.4	162	79.7
ZZ61734		76	2.6	12.2	158	64.3
ZZ61735		116	1.7	12.0	76	63.9
ZZ61736		122	2.6	12.0	131	55.0
ZZ61737		114	2.9	13.0	153	63.5
ZZ61738		79	2.6	10.4	102	96.2
ZZ61739		95	3.4	13.6	154	80.8
ZZ61740		113	2.1	13.4	118	74.3



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ61741		0.36	0.001	0.12	7.42	11.4	740	4.04	0.98	0.88	0.44	223	13.9	64	10.70	32.4
ZZ61742		0.40	0.002	0.11	7.89	8.7	710	5.86	0.80	0.89	0.46	175.5	12.6	55	13.00	30.5
ZZ61743		0.42	0.002	0.10	7.55	7.1	800	3.47	1.11	1.27	0.27	62.1	11.4	57	9.29	34.5
ZZ61744		0.45	0.002	0.10	8.17	7.7	700	6.47	1.27	1.07	0.44	128.5	11.4	59	14.80	26.6
ZZ61745		0.45	0.002	0.12	8.25	9.5	950	6.32	0.95	1.28	0.78	134.0	13.9	71	10.90	29.1
ZZ61746		0.31	0.001	0.16	8.69	24.4	850	5.95	1.65	0.77	0.21	66.7	12.8	62	14.35	35.7
ZZ61747		0.26	0.001	0.17	7.74	12.2	880	4.14	0.86	1.13	0.22	72.3	10.9	47	10.80	26.9
ZZ61748		0.32	0.001	0.26	7.12	8.0	690	4.18	1.01	0.82	0.26	71.6	8.1	47	12.55	19.8
ZZ61749		<0.02	0.003	0.12	7.86	29.0	910	4.07	1.02	1.32	0.31	94.4	9.4	59	9.26	23.0
ZZ61750		0.43	0.003	0.15	7.68	14.4	960	4.93	1.45	1.02	0.31	73.9	11.0	58	12.80	20.8
ZZ61751		0.25	0.001	0.17	7.58	7.4	790	5.13	0.88	1.21	0.31	124.5	9.0	47	8.70	16.4
ZZ61752		0.23	<0.001	0.14	7.65	2.6	640	4.04	0.82	1.85	0.72	60.1	9.5	35	8.57	14.8
ZZ61753		0.28	0.001	0.12	7.52	4.6	720	5.50	0.90	1.45	0.14	115.5	7.1	45	8.10	14.3
ZZ61754		0.27	0.002	0.15	7.60	12.7	770	4.14	1.11	0.77	0.18	96.2	8.1	60	11.75	15.1
ZZ61755		0.16	0.001	0.12	7.26	2.2	870	1.36	0.16	2.33	0.08	34.3	6.8	8	1.53	16.0
ZZ61756		0.29	0.002	0.11	7.37	4.5	780	1.91	0.37	2.69	0.08	44.7	10.1	25	3.29	15.1
ZZ61757		0.26	0.001	0.11	6.82	4.8	1010	2.19	0.67	1.22	0.19	67.0	5.0	46	7.39	11.0
ZZ61758		0.16	0.003	0.25	7.84	2.5	780	2.24	0.30	3.09	0.06	37.1	10.3	13	2.37	16.2
ZZ61759		0.26	<0.001	0.12	6.59	2.9	980	2.28	0.57	1.35	0.32	61.5	4.9	40	9.39	10.7
ZZ61760		0.21	0.002	0.39	7.40	5.0	840	4.50	1.01	1.72	0.20	65.1	8.5	34	13.15	20.2
ZZ61761		0.19	<0.001	0.08	7.44	3.3	720	4.14	0.72	1.17	0.27	93.2	6.3	37	8.01	9.3
ZZ61762		0.22	0.002	0.98	6.89	4.5	900	2.36	0.56	1.69	0.40	55.7	7.2	28	6.82	21.1
ZZ61763		0.27	<0.001	0.40	6.99	3.0	830	2.17	0.54	2.06	0.12	42.6	6.6	14	6.83	20.4
ZZ61764		0.20	0.001	0.22	6.26	4.2	840	2.09	0.61	1.33	0.17	65.5	5.1	34	5.84	11.4
ZZ61765		0.19	0.001	0.24	7.16	8.8	870	4.71	2.10	1.21	0.15	64.2	8.5	47	21.5	20.7
ZZ61766		0.18	0.001	0.23	6.66	6.1	840	3.03	0.83	1.28	0.27	55.5	9.9	37	8.31	17.2
ZZ61767		0.16	0.001	0.24	6.95	5.3	760	3.49	0.92	1.34	0.25	76.8	7.1	35	11.80	14.5
ZZ61768		0.12	0.001	0.13	6.72	6.2	830	3.15	1.31	1.12	0.73	74.8	5.4	46	16.05	11.8
ZZ61769		0.17	<0.001	0.16	6.65	2.9	850	1.54	0.24	1.81	0.14	39.3	5.5	9	2.84	16.8
ZZ61770		0.34	0.001	0.05	6.94	7.6	960	2.57	0.62	0.93	0.26	78.0	6.2	56	6.16	13.7
ZZ61771		0.22	<0.001	0.10	6.95	2.2	840	1.46	0.30	1.68	0.11	42.4	8.0	10	1.97	15.5
ZZ61772		0.25	0.001	0.12	6.89	5.8	840	2.84	0.63	1.20	0.16	62.3	6.4	41	6.38	14.7
ZZ61773		0.25	0.001	0.31	7.18	3.4	770	3.67	0.71	1.43	0.08	82.3	7.1	35	6.99	17.3
ZZ61774		0.21	<0.001	0.11	7.14	4.1	780	2.71	0.45	1.60	0.12	62.6	7.5	28	4.68	17.2
ZZ61775		0.29	0.002	0.14	7.13	6.6	770	3.26	0.74	1.15	0.18	75.9	7.5	38	6.86	15.2
ZZ61776		0.25	0.001	0.17	7.35	8.0	810	3.75	0.77	1.27	0.19	74.9	7.5	45	6.90	15.8
ZZ61777		0.26	0.002	0.07	7.43	4.8	800	3.23	0.84	0.98	0.12	89.7	4.9	41	9.23	9.8
ZZ61778		0.31	0.002	0.09	7.10	3.6	780	2.85	0.51	1.43	0.17	66.4	5.6	28	5.17	12.0
ZZ61779		0.16	<0.001	0.15	7.68	4.1	810	3.27	0.66	1.59	0.10	64.4	6.7	25	5.15	16.2
ZZ61780		0.09	0.003	0.13	7.08	3.9	770	1.41	0.41	2.12	0.19	36.1	10.1	13	2.77	16.1



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Sample Description	Method Analyte Units LOR	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
ZZ61741		4.04	25.5	0.28	1.6	0.055	2.21	114.5	115.5	0.75	630	1.51	1.32	15.7	30.3	1100
ZZ61742		3.82	29.5	0.21	1.8	0.055	2.58	81.6	111.5	0.71	640	1.23	1.43	15.1	30.8	1020
ZZ61743		3.56	24.4	0.14	2.5	0.053	1.89	30.7	82.7	0.87	508	1.98	1.38	13.4	24.2	1080
ZZ61744		3.20	32.6	0.20	2.8	0.048	2.35	59.6	142.0	0.79	670	1.22	1.50	17.7	26.0	990
ZZ61745		3.62	29.0	0.18	2.4	0.057	2.44	62.7	113.0	0.85	705	1.76	1.51	17.3	32.7	1300
ZZ61746		3.84	31.7	0.12	2.6	0.058	2.13	31.7	124.0	0.89	603	1.66	1.09	15.4	26.9	1300
ZZ61747		2.87	28.9	0.16	2.9	0.045	2.09	35.0	98.7	0.72	755	1.71	1.44	13.6	20.1	1190
ZZ61748		2.67	26.5	0.09	2.3	0.042	1.99	32.5	204	0.57	575	1.35	1.08	12.7	16.3	1550
ZZ61749		2.77	23.8	0.14	2.5	0.047	2.38	46.1	97.6	0.78	565	1.19	1.36	13.5	21.8	1010
ZZ61750		3.48	22.2	0.14	2.1	0.047	1.93	33.9	109.5	0.85	666	1.22	1.17	12.5	21.6	900
ZZ61751		2.57	25.2	0.18	2.2	0.051	2.50	56.8	67.8	0.68	477	0.62	1.57	13.8	18.5	1020
ZZ61752		2.74	22.9	0.12	2.4	0.035	1.92	28.5	52.1	0.85	533	0.88	1.74	10.5	14.4	1140
ZZ61753		2.37	25.3	0.20	2.2	0.042	2.27	55.4	57.5	0.63	417	0.80	1.77	13.4	15.4	800
ZZ61754		3.73	29.3	0.16	2.3	0.057	2.52	43.1	70.5	0.75	407	1.30	1.28	15.6	21.1	700
ZZ61755		1.99	19.90	0.11	3.4	0.018	2.10	16.2	19.3	0.70	469	1.54	2.64	5.9	5.0	510
ZZ61756		2.78	21.3	0.13	3.0	0.030	1.80	21.2	27.3	1.08	462	1.44	2.26	7.8	11.9	770
ZZ61757		2.06	22.6	0.15	2.7	0.031	2.14	34.1	30.1	0.59	373	1.59	1.61	13.7	10.2	350
ZZ61758		2.87	22.3	0.13	3.3	0.026	1.85	19.1	22.3	1.09	497	1.34	2.62	6.2	8.1	810
ZZ61759		1.66	21.9	0.16	2.7	0.034	2.15	31.2	30.4	0.56	307	1.28	1.62	14.1	7.7	510
ZZ61760		2.65	24.3	0.14	2.8	0.039	1.93	36.0	55.1	0.74	546	1.70	1.75	10.2	12.5	1410
ZZ61761		1.98	24.7	0.16	2.0	0.035	2.61	47.0	61.3	0.57	304	0.70	1.79	11.7	12.3	690
ZZ61762		2.10	21.5	0.16	3.0	0.028	2.00	29.7	30.3	0.63	591	1.86	1.95	10.0	9.3	940
ZZ61763		2.05	20.4	0.15	3.3	0.022	1.96	22.5	33.3	0.66	430	1.63	2.26	6.9	7.4	830
ZZ61764		1.82	22.0	0.15	2.6	0.026	2.08	32.2	27.0	0.52	324	1.35	1.63	11.6	8.7	560
ZZ61765		2.84	22.2	0.12	2.4	0.044	1.84	32.6	66.3	0.67	648	1.49	1.34	10.5	15.6	1450
ZZ61766		2.30	21.5	0.13	2.4	0.030	1.91	27.8	42.6	0.60	918	1.55	1.56	10.0	11.9	1190
ZZ61767		2.27	23.8	0.15	2.4	0.040	2.08	38.6	52.8	0.64	476	1.27	1.62	10.4	11.9	1170
ZZ61768		2.27	27.5	0.14	2.6	0.039	2.12	35.2	54.0	0.55	341	1.48	1.49	13.2	12.7	790
ZZ61769		1.77	19.85	0.11	3.5	0.018	2.04	20.7	21.2	0.49	436	1.85	2.34	6.4	4.3	600
ZZ61770		2.73	19.25	0.16	2.1	0.044	2.32	40.4	46.3	0.69	387	1.33	1.48	12.9	17.1	590
ZZ61771		2.02	16.40	0.17	3.2	0.019	2.09	20.6	23.2	0.56	634	1.63	2.51	6.0	5.3	700
ZZ61772		2.73	17.60	0.18	2.3	0.037	2.06	33.2	47.0	0.66	472	1.37	1.66	9.9	13.8	1140
ZZ61773		2.38	19.10	0.23	2.6	0.041	2.13	49.0	64.5	0.64	402	0.92	1.82	9.8	12.6	1170
ZZ61774		2.61	18.50	0.20	2.7	0.032	1.99	38.2	46.2	0.70	491	1.49	2.04	9.0	11.9	960
ZZ61775		2.59	20.1	0.19	2.7	0.045	2.16	38.9	56.9	0.61	593	1.42	1.68	10.6	13.7	1140
ZZ61776		2.90	19.65	0.19	2.5	0.046	2.11	37.7	58.4	0.72	632	1.25	1.60	10.7	15.3	1240
ZZ61777		2.14	24.5	0.21	2.8	0.041	2.57	46.8	52.8	0.56	306	1.52	1.74	13.9	12.2	710
ZZ61778		2.13	19.75	0.19	2.6	0.033	2.35	33.7	43.6	0.61	336	1.07	2.04	9.5	11.1	640
ZZ61779		2.37	19.55	0.20	2.8	0.033	2.34	35.7	53.2	0.63	389	1.13	2.13	8.8	11.6	770
ZZ61780		2.67	17.15	0.16	3.1	0.023	1.89	17.1	21.9	0.81	702	1.86	2.52	5.6	8.7	730





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		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.1
ZZ61741		30.2	161.0	0.002	0.03	1.21	13.1	3	6.2	167.0	1.20	<0.05	35.9	0.450	10.1
ZZ61742		46.6	186.5	0.002	0.03	2.54	11.6	3	6.6	180.5	1.27	<0.05	29.1	0.408	8.8
ZZ61743		25.6	125.5	<0.002	0.07	1.53	11.7	2	5.6	288	1.08	<0.05	10.5	0.424	8.3
ZZ61744		39.0	190.5	0.002	0.03	5.13	11.3	2	9.4	188.0	1.71	<0.05	26.1	0.415	13.7
ZZ61745		32.6	175.0	<0.002	0.03	3.24	12.9	2	6.9	206	1.52	<0.05	22.7	0.479	8.9
ZZ61746		46.4	158.0	<0.002	0.07	3.46	11.6	2	8.2	152.0	1.42	<0.05	11.4	0.424	20.3
ZZ61747		37.1	145.0	0.002	0.06	2.48	9.6	2	5.5	261	1.01	<0.05	12.2	0.351	11.6
ZZ61748		40.3	162.0	<0.002	0.10	2.76	8.8	1	5.7	157.5	1.03	<0.05	14.5	0.351	9.9
ZZ61749		34.5	169.5	0.002	0.02	5.51	10.7	1	5.2	223	1.13	<0.05	16.0	0.393	9.7
ZZ61750		31.4	132.5	0.002	0.02	2.81	12.0	1	4.4	171.5	1.02	<0.05	12.3	0.410	11.9
ZZ61751		37.3	181.0	0.002	0.02	0.86	10.1	1	6.8	215	1.19	<0.05	23.9	0.360	6.0
ZZ61752		23.3	136.0	<0.002	0.04	0.48	8.9	<1	4.5	398	0.99	<0.05	12.0	0.361	7.4
ZZ61753		30.9	155.5	0.002	0.01	0.74	9.1	1	5.9	263	1.16	<0.05	21.0	0.359	4.7
ZZ61754		39.1	184.0	<0.002	0.02	1.01	10.6	2	6.8	146.5	1.21	<0.05	19.2	0.409	4.5
ZZ61755		9.7	52.8	0.002	0.01	0.54	5.2	1	1.0	649	0.44	<0.05	5.1	0.267	2.1
ZZ61756		14.1	59.4	0.003	0.01	0.58	9.2	<1	1.8	625	0.59	<0.05	6.7	0.371	4.6
ZZ61757		20.5	171.5	0.002	0.01	0.89	8.4	<1	3.4	296	1.04	<0.05	10.6	0.409	3.9
ZZ61758		12.5	47.5	<0.002	0.02	0.49	8.5	1	1.3	745	0.47	<0.05	5.8	0.396	9.3
ZZ61759		15.7	195.0	<0.002	0.02	0.78	8.4	1	3.6	330	1.06	<0.05	9.6	0.414	4.4
ZZ61760		29.3	123.5	<0.002	0.06	0.80	9.3	1	3.4	397	0.85	<0.05	12.4	0.326	32.5
ZZ61761		29.0	164.0	<0.002	0.01	0.53	8.5	1	5.4	237	0.98	<0.05	17.7	0.338	6.1
ZZ61762		17.2	137.0	<0.002	0.04	0.78	7.4	1	2.5	434	0.87	<0.05	8.4	0.330	8.4
ZZ61763		16.0	63.9	0.003	0.03	0.58	6.0	<1	1.7	531	0.59	<0.05	7.1	0.267	9.9
ZZ61764		18.0	144.5	0.003	0.02	0.81	7.2	1	3.3	310	1.03	<0.05	11.3	0.358	3.1
ZZ61765		38.7	114.5	0.002	0.05	1.00	9.5	1	3.7	263	0.82	<0.05	12.4	0.321	18.3
ZZ61766		28.8	131.0	<0.002	0.05	0.90	7.4	1	3.2	304	0.78	<0.05	10.4	0.315	6.6
ZZ61767		28.8	140.5	0.003	0.03	0.69	8.2	1	3.7	301	0.83	<0.05	14.5	0.318	14.6
ZZ61768		25.5	168.0	<0.002	0.03	0.82	9.0	1	5.1	218	1.03	<0.05	13.1	0.387	5.6
ZZ61769		13.5	68.1	<0.002	0.03	0.60	4.2	1	1.2	514	0.50	<0.05	6.3	0.234	3.6
ZZ61770		24.6	145.5	<0.002	0.01	0.85	9.2	1	3.6	190.0	0.96	<0.05	13.2	0.379	3.2
ZZ61771		16.1	60.5	<0.002	0.02	0.53	4.8	<1	1.1	513	0.46	<0.05	6.7	0.242	3.7
ZZ61772		24.2	106.5	<0.002	0.04	0.85	7.7	1	3.0	272	0.74	<0.05	11.4	0.325	7.5
ZZ61773		22.9	102.0	<0.002	0.06	0.51	9.2	1	3.6	317	0.75	<0.05	14.8	0.313	67.4
ZZ61774		18.0	91.4	<0.002	0.04	0.65	7.7	1	2.4	414	0.66	<0.05	9.3	0.310	23.0
ZZ61775		26.7	124.5	0.002	0.05	0.91	8.1	1	3.6	261	0.87	<0.05	13.8	0.312	8.1
ZZ61776		27.7	115.5	<0.002	0.04	1.02	8.5	1	3.6	259	0.81	<0.05	13.5	0.344	9.2
ZZ61777		26.8	165.0	0.002	0.02	0.66	8.6	<1	5.1	233	1.09	<0.05	16.9	0.379	4.1
ZZ61778		22.4	116.5	<0.002	0.02	0.56	7.2	<1	3.1	344	0.72	<0.05	11.5	0.293	4.5
ZZ61779		22.0	102.0	<0.002	0.04	0.54	7.4	<1	3.1	391	0.69	<0.05	11.3	0.284	12.9
ZZ61780		23.4	58.6	<0.002	0.03	0.52	6.8	<1	1.2	591	0.42	<0.05	5.6	0.297	5.3





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**CERTIFICATE OF ANALYSIS WH12195389**

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
ZZ61741		120	2.7	22.5	132	56.0
ZZ61742		98	4.8	19.9	139	66.0
ZZ61743		119	1.9	11.3	118	90.8
ZZ61744		99	2.8	18.0	136	91.8
ZZ61745		137	2.4	19.8	145	81.1
ZZ61746		120	2.9	14.0	134	79.3
ZZ61747		95	2.0	13.2	105	101.0
ZZ61748		95	2.0	11.0	103	77.8
ZZ61749		108	1.9	19.1	97	86.4
ZZ61750		120	2.9	16.4	109	71.1
ZZ61751		78	4.0	16.9	92	78.4
ZZ61752		74	1.8	10.4	107	83.8
ZZ61753		76	6.0	15.3	74	74.4
ZZ61754		102	2.0	12.0	90	80.7
ZZ61755		53	0.6	7.6	54	120.5
ZZ61756		94	0.8	10.8	66	100.5
ZZ61757		109	1.6	10.2	69	90.7
ZZ61758		89	0.6	11.1	65	118.0
ZZ61759		105	1.6	10.1	63	95.8
ZZ61760		85	1.3	14.1	91	100.5
ZZ61761		70	1.5	12.4	70	71.0
ZZ61762		80	1.2	11.0	68	109.5
ZZ61763		57	0.8	9.6	70	118.0
ZZ61764		86	1.2	9.9	55	94.7
ZZ61765		92	2.4	13.5	105	87.8
ZZ61766		82	1.4	10.0	87	91.0
ZZ61767		78	1.4	11.4	87	87.9
ZZ61768		101	1.7	10.6	93	87.0
ZZ61769		45	0.7	8.4	52	123.0
ZZ61770		112	1.7	10.3	77	66.5
ZZ61771		50	0.6	7.4	50	116.0
ZZ61772		89	1.3	10.3	74	77.6
ZZ61773		67	1.4	19.4	66	88.1
ZZ61774		72	1.1	12.9	67	101.5
ZZ61775		79	1.7	10.8	77	88.1
ZZ61776		88	1.7	11.3	93	80.5
ZZ61777		85	2.0	9.7	64	90.5
ZZ61778		64	1.4	9.3	55	88.1
ZZ61779		58	2.0	11.3	66	95.6
ZZ61780		73	0.9	7.8	58	113.0



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**CERTIFICATE OF ANALYSIS WH12195389**

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ61781		0.18	0.002	0.19	7.50	4.9	750	3.24	0.67	1.60	0.13	73.6	7.4	30	5.21	14.2
ZZ61782		0.27	0.003	0.09	7.74	7.7	810	4.87	1.16	0.89	0.28	107.0	10.2	51	9.88	15.4
ZZ61783		0.26	<0.001	0.09	6.91	8.0	920	2.28	0.71	1.19	0.12	63.1	6.5	45	6.89	13.4
ZZ61784		0.23	0.001	0.43	8.84	7.5	930	3.87	1.10	1.50	0.11	50.1	9.7	38	9.45	26.9
ZZ61785		0.25	0.001	0.36	7.51	3.8	780	3.39	0.61	1.62	0.17	60.9	6.9	25	7.21	16.4
ZZ61786		0.29	<0.001	0.09	7.20	2.5	710	3.28	0.47	1.32	0.16	78.8	5.3	28	5.59	7.7
ZZ61787		0.17	0.001	0.22	7.31	3.2	800	3.21	0.60	1.24	0.09	65.4	5.3	29	5.75	12.9
ZZ61788		0.16	<0.001	0.09	7.72	2.6	800	2.25	0.39	1.95	0.19	49.9	8.5	22	3.92	13.5
ZZ61789		0.24	0.001	0.14	7.80	5.1	860	3.25	0.66	1.50	0.11	67.4	7.9	34	6.97	13.5
ZZ61790		0.22	<0.001	0.12	6.78	6.6	820	2.44	0.46	0.96	0.17	60.0	5.3	31	7.94	15.4
ZZ61791		0.37	0.003	0.11	7.33	6.5	860	2.38	0.56	1.26	0.08	67.2	5.7	36	6.02	12.7
ZZ61792		0.21	0.001	0.16	7.84	3.9	910	2.52	0.54	1.29	0.06	52.8	6.5	29	5.98	15.4
ZZ61793		0.30	0.001	0.09	6.33	5.5	870	2.34	0.40	0.93	0.14	72.0	3.9	45	5.10	7.6
ZZ61794		0.27	0.001	0.10	7.84	7.0	780	3.92	0.92	0.80	0.29	99.2	7.2	46	8.69	15.3
ZZ61795		0.16	0.001	0.25	6.76	3.8	690	2.04	0.52	1.54	0.21	54.5	13.4	24	3.84	18.4
ZZ61796		0.32	0.001	0.10	7.21	6.7	860	2.87	0.70	0.83	0.07	77.8	5.6	54	7.34	11.1
ZZ61797		0.28	0.001	0.11	7.27	7.3	840	2.96	0.65	0.79	0.11	88.2	6.0	51	7.35	11.8
ZZ61798		0.24	0.001	0.29	7.64	4.4	860	3.29	0.83	1.24	0.12	70.5	6.1	34	7.72	15.8
ZZ61799		0.19	0.005	0.23	8.35	10.9	980	4.24	2.01	0.92	0.11	69.0	9.5	56	10.55	20.2
ZZ61800		0.23	0.001	0.15	7.77	2.8	800	3.31	0.66	1.44	0.16	83.1	6.8	32	6.45	11.1
ZZ61801		0.31	<0.001	0.10	7.18	2.8	850	1.35	0.20	1.94	0.08	36.2	5.8	10	1.95	15.7
ZZ61802		0.29	0.001	0.14	7.52	3.3	760	3.51	0.65	1.17	0.06	78.3	5.8	33	6.58	10.5
ZZ61803		0.23	0.002	0.16	6.54	10.1	830	3.27	0.74	0.94	0.32	85.5	6.6	52	6.70	14.9
ZZ61804		0.16	0.004	0.24	7.08	21.1	780	2.77	1.01	0.88	0.41	50.3	4.8	28	8.22	20.8
ZZ61805		0.16	0.001	0.11	7.69	7.1	800	3.98	1.01	0.84	0.34	87.5	7.1	50	8.16	13.4
ZZ61806		0.20	0.005	0.12	7.30	9.6	670	4.03	1.18	0.63	0.22	85.4	6.4	48	11.85	14.1
ZZ61807		0.11	<0.001	0.12	6.98	6.0	720	2.85	0.77	1.24	0.20	56.6	6.6	33	6.94	19.0
ZZ61808		0.22	0.001	0.08	7.15	8.1	760	3.58	0.80	1.02	0.25	94.0	7.2	46	7.43	13.8
ZZ61809		0.25	0.001	0.22	7.47	6.2	800	3.06	0.82	1.41	0.29	47.1	11.7	42	6.63	21.4
ZZ61810		0.19	0.001	0.11	6.70	3.9	670	2.18	0.41	1.55	0.14	57.1	7.8	29	3.98	13.9
ZZ61811		0.28	0.004	0.27	7.25	6.7	750	4.35	1.23	0.75	0.18	81.9	6.3	42	9.20	16.8
ZZ61812		0.31	<0.001	0.24	6.80	5.2	810	3.28	0.82	1.35	0.14	55.9	9.5	31	6.83	17.1
ZZ61813		0.42	0.001	0.13	7.13	5.8	790	3.80	0.80	1.05	0.18	65.5	7.2	38	7.57	13.3
ZZ61814		0.35	0.003	0.27	6.76	3.8	690	3.68	0.81	0.90	0.24	71.6	5.5	35	9.99	10.6
ZZ61815		0.30	<0.001	0.17	7.09	7.6	760	3.46	0.96	1.07	0.19	69.3	5.8	38	10.35	11.9
ZZ61816		0.44	0.005	0.10	7.15	8.0	860	3.53	0.99	1.10	0.24	80.0	8.0	50	6.78	13.7
ZZ61817		0.36	0.001	0.13	6.76	7.6	830	3.21	0.93	1.07	0.20	80.5	7.0	43	6.99	14.1
ZZ61818		0.30	0.001	0.12	6.87	5.1	830	2.42	0.61	1.39	0.16	60.3	6.5	30	5.57	12.8
ZZ61819		0.28	0.001	0.10	8.49	10.4	1110	3.66	1.09	1.10	0.33	79.8	9.6	61	8.90	19.1
ZZ61820		0.27	0.001	0.10	7.16	5.6	830	3.68	0.82	1.23	0.24	65.8	7.1	40	6.01	13.7



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Sample Description	Method Analyte Units LOR	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
ZZ61781		2.56	19.15	0.20	2.5	0.037	2.27	37.9	52.8	0.72	440	1.18	2.00	9.0	13.4	960
ZZ61782		3.09	23.4	0.23	2.6	0.057	2.46	54.4	82.6	0.68	739	1.24	1.56	13.2	18.7	1190
ZZ61783		2.76	19.15	0.20	2.6	0.034	2.23	34.4	39.8	0.71	421	1.59	1.59	12.2	15.1	840
ZZ61784		3.62	24.5	0.18	3.0	0.054	2.36	29.5	93.4	0.91	431	1.32	1.76	10.5	22.5	920
ZZ61785		2.39	21.3	0.11	3.1	0.050	2.29	35.8	55.8	0.66	417	1.16	2.10	8.1	12.1	1010
ZZ61786		1.90	19.50	0.20	2.5	0.034	2.68	41.5	56.9	0.53	308	0.64	2.04	9.6	10.4	720
ZZ61787		2.13	19.35	0.18	2.8	0.035	2.30	34.4	55.7	0.56	343	1.10	1.89	9.6	11.0	910
ZZ61788		2.83	20.1	0.19	3.3	0.029	2.11	24.9	42.2	0.86	408	1.22	2.34	8.4	10.8	630
ZZ61789		2.76	20.9	0.21	2.7	0.036	2.24	35.2	57.6	0.77	496	1.22	1.89	9.9	14.3	1090
ZZ61790		2.25	19.00	0.18	2.9	0.030	2.28	30.0	30.7	0.40	519	1.90	1.69	10.0	9.5	1570
ZZ61791		2.52	19.65	0.21	2.8	0.031	2.38	34.8	41.3	0.62	417	1.50	1.84	10.9	11.8	860
ZZ61792		2.42	19.95	0.17	3.0	0.039	2.24	27.8	54.1	0.61	428	1.34	1.99	9.6	11.1	1100
ZZ61793		1.91	17.95	0.17	2.4	0.033	2.14	35.9	33.9	0.49	241	1.09	1.47	12.6	10.2	790
ZZ61794		2.81	23.6	0.22	2.5	0.051	2.84	50.7	74.2	0.63	426	0.80	1.50	14.1	18.6	930
ZZ61795		2.89	16.85	0.19	2.8	0.037	1.68	25.5	35.7	0.69	2570	2.20	1.87	7.1	10.9	1650
ZZ61796		2.65	19.90	0.17	2.4	0.043	2.34	39.9	52.6	0.67	347	1.22	1.35	12.6	16.1	990
ZZ61797		2.61	20.7	0.20	2.3	0.042	2.56	44.2	54.2	0.65	350	0.91	1.39	13.0	16.6	850
ZZ61798		2.53	21.1	0.20	2.9	0.041	2.14	37.2	74.7	0.61	411	1.36	1.73	10.2	13.6	1160
ZZ61799		4.17	23.4	0.19	2.3	0.065	1.92	38.0	129.5	0.77	636	1.73	1.18	12.2	21.9	1600
ZZ61800		2.12	20.6	0.21	2.7	0.037	2.45	42.5	62.6	0.67	419	0.83	1.92	10.0	12.2	810
ZZ61801		2.12	16.80	0.16	3.4	0.020	2.16	17.7	23.5	0.68	395	1.43	2.65	6.0	5.8	540
ZZ61802		2.16	20.1	0.21	2.4	0.033	2.46	41.2	60.9	0.61	311	0.79	1.80	10.7	12.6	750
ZZ61803		2.77	17.25	0.21	1.9	0.033	2.15	42.9	57.6	0.60	446	1.22	1.47	11.9	19.7	1090
ZZ61804		2.41	19.95	0.17	2.7	0.033	1.96	27.1	63.6	0.50	346	1.55	1.60	9.6	12.4	1190
ZZ61805		3.06	20.4	0.18	2.3	0.046	2.37	42.4	68.9	0.65	481	1.15	1.42	13.7	17.4	1010
ZZ61806		3.15	25.4	0.22	2.2	0.058	2.29	42.9	75.6	0.53	439	1.20	1.24	13.3	16.2	710
ZZ61807		2.65	20.8	0.18	2.4	0.044	2.02	29.6	56.9	0.63	407	1.46	1.63	10.2	13.4	1150
ZZ61808		2.88	21.5	0.20	1.9	0.048	2.32	50.1	77.2	0.63	424	1.02	1.57	12.5	19.2	790
ZZ61809		3.48	20.7	0.18	2.2	0.051	1.84	23.9	72.7	0.89	721	1.40	1.47	10.4	20.2	1190
ZZ61810		2.96	18.30	0.18	2.4	0.039	1.80	29.0	40.7	0.75	371	1.07	1.79	8.6	11.2	950
ZZ61811		2.57	24.5	0.19	2.4	0.054	2.55	39.3	62.8	0.55	423	1.01	1.45	12.2	13.6	760
ZZ61812		2.65	19.40	0.18	2.6	0.038	1.98	26.7	38.4	0.67	882	1.24	1.76	8.8	12.1	1040
ZZ61813		2.43	22.8	0.19	2.4	0.045	2.44	33.4	52.9	0.61	490	1.04	1.66	11.0	13.6	930
ZZ61814		2.08	20.8	0.20	2.1	0.038	2.28	35.9	51.0	0.52	322	0.66	1.53	9.8	11.4	1050
ZZ61815		2.42	22.7	0.19	2.4	0.039	2.19	35.0	57.0	0.60	337	1.07	1.60	11.1	11.6	850
ZZ61816		2.76	21.1	0.24	2.2	0.053	2.35	41.1	53.5	0.66	545	1.10	1.64	11.9	18.1	1030
ZZ61817		2.64	20.1	0.14	2.5	0.052	2.05	38.6	48.5	0.65	476	1.19	1.57	11.0	16.3	1060
ZZ61818		2.45	20.3	0.19	2.6	0.037	2.24	31.1	37.0	0.65	424	1.31	1.84	10.0	10.6	850
ZZ61819		3.77	26.3	0.20	2.9	0.067	2.51	39.4	68.9	0.85	620	1.64	1.63	14.4	21.3	1440
ZZ61820		2.61	20.7	0.14	2.2	0.036	2.08	32.7	51.3	0.71	551	0.92	1.62	10.0	14.2	1150



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.1
ZZ61781		25.9	110.0	<0.002	0.04	0.55	7.9	<1	3.3	372	0.66	0.07	13.2	0.305	0.64
ZZ61782		38.2	159.0	<0.002	0.04	0.99	10.1	<1	5.3	180.0	1.03	0.05	20.3	0.363	1.04
ZZ61783		23.0	149.5	0.002	0.03	0.98	8.7	<1	3.3	282	0.95	<0.05	11.7	0.379	0.80
ZZ61784		24.9	137.0	0.002	0.04	0.78	10.5	1	4.6	371	0.89	<0.05	11.4	0.343	0.93
ZZ61785		22.4	107.5	<0.002	0.06	0.49	8.1	1	3.4	382	0.72	<0.05	10.5	0.302	0.72
ZZ61786		27.0	136.5	<0.002	0.02	0.40	6.5	<1	4.0	288	0.77	<0.05	14.7	0.286	0.85
ZZ61787		22.4	112.5	<0.002	0.05	0.54	7.3	1	3.8	310	0.84	<0.05	12.2	0.279	0.73
ZZ61788		15.9	84.5	0.002	0.03	0.46	8.1	<1	2.7	504	0.64	<0.05	8.0	0.369	0.54
ZZ61789		24.1	119.0	<0.002	0.04	0.54	9.0	1	3.6	362	0.78	<0.05	12.1	0.334	0.78
ZZ61790		29.8	164.5	0.002	0.06	0.78	6.2	1	3.8	275	0.81	<0.05	11.7	0.274	0.78
ZZ61791		21.5	123.5	0.003	0.03	0.77	7.5	1	3.2	320	0.82	<0.05	12.3	0.340	0.73
ZZ61792		20.4	103.0	<0.002	0.04	0.57	7.1	<1	3.1	371	0.75	<0.05	9.2	0.288	0.73
ZZ61793		23.4	119.0	<0.002	0.02	0.70	7.9	<1	3.2	212	0.90	<0.05	11.3	0.351	0.71
ZZ61794		35.1	178.0	<0.002	0.03	0.89	9.6	<1	6.3	168.0	1.19	<0.05	20.4	0.360	1.09
ZZ61795		23.4	66.4	0.002	0.10	0.74	7.1	1	2.0	393	0.54	<0.05	8.7	0.289	0.48
ZZ61796		25.6	144.5	0.002	0.02	0.73	8.9	1	4.6	178.0	0.98	<0.05	15.0	0.367	0.95
ZZ61797		28.6	151.0	<0.002	0.02	0.79	9.2	1	5.0	164.0	0.99	0.05	16.5	0.353	0.99
ZZ61798		22.1	115.0	<0.002	0.06	0.67	7.9	1	3.7	309	0.80	<0.05	13.3	0.280	0.76
ZZ61799		39.4	123.5	<0.002	0.07	0.94	11.0	1	4.9	197.0	0.98	0.06	16.8	0.322	1.09
ZZ61800		30.4	127.0	0.002	0.04	0.51	8.2	1	4.3	327	0.82	<0.05	15.4	0.313	0.90
ZZ61801		9.7	57.7	0.002	0.02	0.48	5.3	<1	1.2	575	0.45	<0.05	5.7	0.256	0.36
ZZ61802		28.5	131.0	0.002	0.03	0.50	8.0	1	4.5	276	0.88	<0.05	15.0	0.300	0.89
ZZ61803		28.0	121.5	0.002	0.04	1.19	8.2	1	4.3	170.5	0.99	0.06	15.5	0.339	0.82
ZZ61804		28.0	105.0	0.003	0.08	0.97	6.4	<1	4.2	265	0.87	<0.05	8.1	0.253	0.70
ZZ61805		29.7	145.0	<0.002	0.03	1.11	9.0	1	5.3	159.5	1.20	<0.05	15.6	0.363	0.97
ZZ61806		35.9	157.5	<0.002	0.03	1.20	9.1	1	6.2	140.5	1.23	<0.05	17.2	0.369	1.13
ZZ61807		23.6	111.0	<0.002	0.06	0.91	8.0	1	3.6	301	0.82	<0.05	10.0	0.332	0.67
ZZ61808		28.7	143.5	<0.002	0.02	1.48	9.5	1	4.7	189.0	1.00	<0.05	17.0	0.354	0.94
ZZ61809		24.3	108.5	<0.002	0.09	0.88	10.0	<1	3.8	320	0.86	<0.05	7.4	0.395	0.79
ZZ61810		16.5	78.1	0.002	0.05	0.67	7.9	1	2.8	366	0.73	<0.05	9.4	0.377	0.56
ZZ61811		32.7	182.0	<0.002	0.03	0.80	8.2	1	5.0	157.5	1.10	<0.05	15.9	0.343	1.03
ZZ61812		27.0	111.5	<0.002	0.05	0.67	7.7	1	2.6	346	0.71	<0.05	9.6	0.315	0.65
ZZ61813		29.6	150.5	<0.002	0.04	0.67	8.4	1	4.4	240	0.94	<0.05	12.1	0.323	0.88
ZZ61814		29.3	147.0	<0.002	0.05	0.49	7.3	<1	4.2	189.5	0.88	<0.05	13.9	0.292	0.90
ZZ61815		26.3	134.0	<0.002	0.03	0.63	8.0	<1	4.4	248	0.94	<0.05	12.9	0.334	0.86
ZZ61816		29.9	138.0	<0.002	0.03	0.91	9.1	1	3.8	207	1.02	<0.05	15.2	0.343	0.87
ZZ61817		25.4	116.5	<0.002	0.04	0.77	8.7	<1	3.5	240	0.84	0.05	14.1	0.332	0.80
ZZ61818		21.5	112.5	<0.002	0.03	0.68	7.8	1	2.9	339	0.86	<0.05	10.6	0.341	0.69
ZZ61819		31.3	158.5	<0.002	0.05	1.10	11.4	1	4.4	246	1.12	0.06	13.9	0.442	0.98
ZZ61820		29.8	128.5	<0.002	0.04	0.76	8.3	1	3.2	254	0.98	<0.05	11.4	0.315	0.75



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Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
ZZ61781		71	2.3	11.5	76	81.1
ZZ61782		93	3.1	13.9	96	79.9
ZZ61783		107	2.7	10.1	78	81.0
ZZ61784		90	2.3	11.7	118	97.8
ZZ61785		62	1.5	12.9	73	96.4
ZZ61786		53	1.4	10.2	61	79.0
ZZ61787		58	1.8	9.8	67	88.8
ZZ61788		81	1.1	9.4	65	108.0
ZZ61789		79	1.6	10.4	84	86.9
ZZ61790		66	1.3	8.2	63	97.3
ZZ61791		84	1.6	9.2	68	93.8
ZZ61792		65	1.4	8.6	72	101.0
ZZ61793		93	1.7	9.8	38	77.4
ZZ61794		80	2.3	11.9	86	80.4
ZZ61795		73	1.0	9.5	65	90.1
ZZ61796		96	1.8	9.7	72	75.8
ZZ61797		88	1.9	11.6	75	71.9
ZZ61798		69	1.5	11.1	105	95.6
ZZ61799		108	2.0	12.0	135	73.3
ZZ61800		71	1.5	11.1	85	84.5
ZZ61801		53	0.7	7.1	53	123.5
ZZ61802		65	1.8	10.4	73	80.5
ZZ61803		94	1.7	12.2	93	60.9
ZZ61804		65	1.5	8.4	86	90.6
ZZ61805		95	1.9	10.7	102	66.7
ZZ61806		92	2.3	9.8	86	79.4
ZZ61807		84	1.5	8.4	78	99.3
ZZ61808		91	2.1	12.1	93	69.9
ZZ61809		109	1.4	9.9	90	80.2
ZZ61810		96	1.1	8.3	66	90.3
ZZ61811		84	1.7	9.8	82	83.9
ZZ61812		79	1.5	9.4	69	99.3
ZZ61813		75	1.5	9.7	68	86.6
ZZ61814		63	1.3	8.6	63	73.3
ZZ61815		79	1.6	8.7	68	93.2
ZZ61816		90	1.7	12.4	79	77.6
ZZ61817		86	1.6	11.9	72	78.2
ZZ61818		85	1.2	8.6	58	97.4
ZZ61819		129	1.8	12.6	101	106.0
ZZ61820		85	1.2	9.9	79	78.7



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ61821		0.33	<0.001	0.13	7.04	8.0	870	3.35	0.90	1.04	0.35	76.2	7.6	53	7.00	13.3
ZZ61822		0.37	<0.001	0.12	7.20	8.0	930	2.96	0.84	1.12	0.27	65.3	7.8	46	6.62	18.4
ZZ61823		0.31	0.001	0.22	6.48	5.8	770	2.78	0.74	0.95	0.64	61.9	6.0	41	6.20	14.8
ZZ61824		0.30	0.001	0.12	7.03	7.7	910	3.28	0.83	1.06	0.32	61.0	7.6	47	7.06	15.0
ZZ61825		0.42	0.002	0.11	7.50	7.5	900	3.87	0.80	1.20	0.29	89.0	8.6	51	6.62	14.8
ZZ61826		0.28	<0.001	0.10	6.91	5.7	870	3.12	0.53	1.38	0.29	67.7	7.2	45	5.24	12.6
ZZ61827		0.31	<0.001	0.13	6.41	4.9	870	2.05	0.48	1.32	0.31	46.0	6.5	36	4.22	11.6
ZZ61828		0.32	<0.001	0.11	7.27	4.9	890	2.16	0.41	1.70	0.26	48.5	8.0	26	4.07	17.8
ZZ61829		0.26	0.001	0.10	6.61	2.8	900	1.41	0.22	1.58	0.11	40.5	4.6	18	2.82	12.8
ZZ61830		0.24	<0.001	0.09	7.03	1.9	760	1.18	0.14	2.26	0.11	32.0	7.5	9	1.08	15.4
ZZ61831		0.31	<0.001	0.12	6.76	4.5	770	2.13	0.45	1.42	0.14	51.1	5.3	24	3.77	12.3
ZZ61832		0.31	<0.001	0.14	6.99	7.8	870	3.01	0.75	1.14	0.47	66.9	7.4	46	6.67	14.9
ZZ61833		0.27	0.002	0.11	6.32	3.1	710	1.89	0.44	1.42	0.18	44.1	5.9	26	3.72	12.3
ZZ61834		0.38	0.004	0.09	6.85	4.5	800	1.73	0.37	1.56	0.13	54.0	6.3	29	3.44	13.0
ZZ61835		0.31	0.001	0.12	6.56	7.0	880	2.81	0.70	1.02	0.18	71.1	6.9	49	6.70	12.2



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**CERTIFICATE OF ANALYSIS WH12195389**

Sample Description	Method Analyte Units LOR	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
ZZ61821		2.96	20.9	0.17	2.3	0.052	2.29	38.8	51.5	0.69	488	1.21	1.48	11.8	15.8	900
ZZ61822		2.89	21.5	0.17	2.8	0.045	2.11	33.5	54.5	0.70	477	1.31	1.64	11.3	16.4	1100
ZZ61823		2.54	20.4	0.20	2.4	0.039	2.04	31.5	44.2	0.54	405	1.25	1.45	11.0	12.4	1080
ZZ61824		2.83	21.5	0.17	2.5	0.046	2.19	31.7	55.5	0.67	549	1.25	1.59	10.9	16.0	1040
ZZ61825		2.89	22.4	0.20	2.6	0.051	2.44	43.6	59.7	0.73	556	1.02	1.79	11.8	19.7	940
ZZ61826		2.64	19.35	0.19	2.1	0.043	2.08	35.3	51.1	0.71	510	0.97	1.72	9.8	15.6	1080
ZZ61827		2.46	17.45	0.19	2.2	0.034	2.13	23.9	31.5	0.60	545	1.15	1.75	8.7	11.1	920
ZZ61828		2.51	19.70	0.16	2.9	0.027	2.05	24.8	34.0	0.71	518	1.41	2.20	8.1	10.9	820
ZZ61829		1.70	17.90	0.18	3.0	0.024	2.11	21.7	19.7	0.53	326	1.48	2.30	7.8	5.7	580
ZZ61830		2.48	18.05	0.15	3.2	0.024	1.89	14.9	17.0	0.81	437	1.35	2.63	5.3	6.5	830
ZZ61831		2.20	18.45	0.19	2.6	0.028	2.24	25.7	31.7	0.54	366	1.23	2.03	7.7	8.5	700
ZZ61832		2.86	21.7	0.19	2.4	0.043	2.16	34.3	50.2	0.67	479	1.34	1.59	11.4	15.7	940
ZZ61833		2.40	17.75	0.15	2.6	0.027	1.89	23.0	26.1	0.62	473	1.34	1.83	7.2	9.0	1140
ZZ61834		2.45	18.65	0.16	2.7	0.032	2.13	27.7	28.1	0.66	537	1.28	2.05	8.5	9.2	920
ZZ61835		2.67	20.0	0.19	2.4	0.047	2.12	37.4	46.1	0.62	480	1.32	1.43	11.3	14.4	960





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**CERTIFICATE OF ANALYSIS WH12195389**

Sample Description	Method Analyte Units LOR	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
ZZ61821		28.5	137.5	<0.002	0.03	0.89	9.1	1	3.7	201	0.92	<0.05	14.0	0.371	0.82	4.2
ZZ61822		24.4	119.5	<0.002	0.04	0.87	8.8	1	3.3	261	0.88	<0.05	12.8	0.347	0.79	4.6
ZZ61823		25.3	120.5	<0.002	0.04	0.80	8.0	<1	3.4	222	0.85	<0.05	11.3	0.322	0.75	4.3
ZZ61824		24.7	125.0	<0.002	0.04	0.88	8.6	1	3.6	230	0.88	<0.05	10.5	0.335	0.83	4.2
ZZ61825		30.8	144.5	<0.002	0.02	0.96	9.9	1	3.9	221	0.95	<0.05	16.8	0.357	0.85	5.2
ZZ61826		26.8	113.0	<0.002	0.04	0.89	8.5	<1	2.9	258	0.75	0.05	12.5	0.334	0.69	4.2
ZZ61827		20.8	98.6	<0.002	0.04	0.70	6.6	<1	2.3	312	0.70	<0.05	8.4	0.305	0.56	2.8
ZZ61828		16.3	84.1	<0.002	0.02	0.67	7.2	1	1.9	453	0.59	<0.05	7.3	0.295	0.52	3.5
ZZ61829		11.2	73.5	<0.002	0.02	0.55	5.5	<1	1.5	471	0.59	<0.05	6.5	0.269	0.41	2.3
ZZ61830		8.5	42.9	<0.002	0.04	0.41	6.1	<1	0.7	627	0.37	<0.05	4.5	0.303	0.26	1.8
ZZ61831		20.0	99.9	<0.002	0.03	0.62	5.8	1	2.2	368	0.57	<0.05	9.6	0.273	0.60	3.1
ZZ61832		26.3	133.5	<0.002	0.03	0.95	8.8	1	3.3	254	0.85	0.05	11.9	0.353	0.79	4.8
ZZ61833		16.5	78.7	<0.002	0.06	0.60	6.3	<1	2.0	361	0.71	<0.05	7.9	0.295	0.51	3.2
ZZ61834		17.5	87.8	0.002	0.02	0.63	6.9	1	2.1	400	0.68	<0.05	9.3	0.330	0.55	2.6
ZZ61835		26.6	127.0	<0.002	0.03	0.86	8.5	<1	3.5	199.0	0.89	<0.05	13.5	0.349	0.81	4.9



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Project: VAT Claims

Finalized Date: 9-SEP-2012  
Account: RANSIL

**CERTIFICATE OF ANALYSIS    WH12195389**

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
ZZ61821		102	2.3	10.4	83	85.0
ZZ61822		96	1.6	9.9	82	99.1
ZZ61823		83	1.6	8.7	64	96.6
ZZ61824		94	1.5	9.7	87	94.2
ZZ61825		95	1.5	12.9	87	91.6
ZZ61826		91	1.4	11.1	85	84.0
ZZ61827		83	1.1	7.4	75	85.3
ZZ61828		74	0.9	9.0	63	117.0
ZZ61829		61	0.8	6.9	47	120.0
ZZ61830		64	0.5	7.1	56	124.5
ZZ61831		64	1.2	8.6	59	99.2
ZZ61832		99	3.7	10.1	85	95.5
ZZ61833		74	1.2	7.2	62	97.1
ZZ61834		81	1.1	8.2	64	100.5
ZZ61835		99	2.7	10.2	74	80.4

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



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To: SILVER RANGE RESOURCES LTD.  
C/O ARCHER, CATHRO & ASSOCIATES (1981)  
LIMITED  
1016-510 W HASTINGS ST  
VANCOUVER BC V6B 1L8

Project: VAT Claims

Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 9-SEP-2012  
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Method	CERTIFICATE COMMENTS
ME-MS61	REE's may not be totally soluble in this method.