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2103 Dollarton Hwy
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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

Page: 1

Finalized Date: 31-AUG-2012

Account: RANSIL

CERTIFICATE WH12189037

Project: SNAIL

P.O. No.:

This report is for 138 Soil samples submitted to our lab in Whitehorse, YT, Canada on 14-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	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	51 anal. aqua regia ICPMS	

To: SILVER RANGE RESOURCES LTD.
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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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 WH12189037

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ41001		0.15	0.006	0.95	1.63	22.7	<0.2	<10	510	0.55	0.66	0.77	0.50	23.1	7.2	23
ZZ41002		0.06	0.008	0.36	0.98	11.1	<0.2	<10	270	0.54	0.18	0.31	3.01	15.60	2.5	11
ZZ41003		0.25	0.002	0.29	1.20	12.9	<0.2	<10	200	0.45	0.39	0.30	0.50	25.1	4.6	20
ZZ41004		0.31	0.005	0.59	1.14	33.0	<0.2	<10	280	0.72	0.69	0.29	1.73	31.5	7.2	19
ZZ41005		0.17	0.006	0.94	1.53	42.8	<0.2	<10	150	0.51	5.03	0.15	0.42	22.2	5.0	14
ZZ41006		0.32	0.013	1.14	1.69	45.5	<0.2	<10	230	0.70	4.43	0.23	0.85	33.5	7.8	23
ZZ41007		0.14	0.030	6.63	1.83	181.5	<0.2	<10	180	0.74	19.90	0.54	2.22	37.2	7.5	22
ZZ41008		0.35	0.039	4.13	2.22	243	<0.2	<10	240	0.81	20.2	0.44	2.34	36.9	9.8	32
ZZ41009		0.24	0.055	3.93	1.85	513	<0.2	<10	220	0.66	27.9	0.32	3.02	34.1	8.0	23
ZZ41010		0.11	0.006	0.62	1.28	59.5	<0.2	<10	130	0.42	2.21	0.12	0.40	22.2	4.3	28
ZZ41011		0.24	0.006	1.18	1.46	33.9	<0.2	<10	210	0.76	0.29	0.25	1.05	40.0	8.4	21
ZZ41012		0.21	0.004	0.94	1.40	34.2	<0.2	<10	270	0.81	0.32	0.39	1.98	39.2	7.8	22
ZZ41013		0.10	0.015	2.23	2.09	161.0	<0.2	<10	260	0.92	7.78	0.24	2.08	33.8	6.5	35
ZZ41014		0.19	0.011	3.22	2.10	138.5	<0.2	<10	300	0.92	4.47	0.58	3.85	29.8	8.4	33
ZZ41015		0.14	0.006	1.10	2.24	38.5	<0.2	<10	320	1.10	4.53	0.51	2.36	33.6	9.1	30
ZZ41016		0.21	0.010	1.55	1.88	78.5	<0.2	<10	290	0.92	2.61	0.33	2.31	31.0	8.9	29
ZZ41017		0.14	0.006	4.69	2.41	133.0	<0.2	<10	370	1.15	2.70	0.44	6.08	34.9	9.2	35
ZZ41018		0.14	0.007	2.18	1.74	191.5	<0.2	<10	190	0.73	3.66	0.35	2.99	25.2	8.9	30
ZZ41019		0.16	0.005	1.80	1.73	140.0	<0.2	<10	300	0.71	2.39	0.44	2.94	25.0	4.2	35
ZZ41020		0.15	0.003	0.40	1.80	22.8	<0.2	<10	150	0.57	0.33	0.12	0.59	27.2	5.7	27
ZZ41021		0.20	0.002	0.20	0.40	10.6	<0.2	<10	60	0.05	0.18	0.05	0.16	20.5	0.8	8
ZZ41022		0.25	0.005	0.51	1.48	37.1	<0.2	<10	280	0.68	0.24	0.28	0.97	31.2	6.2	24
ZZ41023		0.18	0.005	0.63	1.45	18.9	<0.2	<10	520	0.57	0.32	0.16	0.24	22.0	4.5	23
ZZ41024		0.19	0.003	1.02	1.59	35.9	<0.2	<10	590	0.59	0.62	0.17	0.29	24.5	4.8	26
ZZ41025		0.16	0.002	0.47	1.30	30.4	<0.2	<10	480	0.42	0.43	0.09	0.20	19.70	4.0	21
ZZ41026		0.28	0.006	1.05	1.65	45.3	<0.2	<10	600	0.71	0.44	0.23	0.46	32.5	6.0	25
ZZ41027		0.23	0.011	1.37	1.42	43.7	<0.2	<10	430	0.39	0.45	0.31	0.47	22.6	7.2	18
ZZ41028		0.19	0.005	0.41	1.36	88.3	<0.2	<10	350	0.53	0.47	0.28	0.66	22.4	5.4	21
ZZ41029		0.25	0.002	0.66	1.71	34.4	<0.2	<10	200	0.39	0.31	0.09	0.50	22.2	5.6	28
ZZ41030		0.22	0.007	0.40	1.46	71.2	<0.2	<10	530	0.45	0.73	0.23	0.36	24.6	6.2	27
ZZ41031		0.17	0.002	0.69	1.97	71.8	<0.2	<10	210	0.59	0.55	0.20	1.04	21.9	6.4	28
ZZ41032		0.21	0.004	1.50	1.78	85.6	<0.2	<10	750	0.88	0.54	0.23	1.15	26.0	6.1	26
ZZ41033		0.27	0.004	1.31	1.27	22.1	<0.2	<10	230	0.57	0.23	0.36	0.80	25.5	5.9	18
ZZ41034		0.32	0.005	0.19	1.60	13.8	<0.2	<10	240	0.54	0.26	0.16	0.46	32.2	6.6	24
ZZ41035		0.21	0.002	0.23	1.13	9.7	<0.2	<10	110	0.39	0.17	0.18	0.42	16.20	3.6	20
ZZ41036		0.19	0.004	0.82	2.20	45.1	<0.2	<10	190	0.67	0.42	0.12	1.39	22.5	7.1	31
ZZ41037		0.13	0.003	0.38	1.10	19.1	<0.2	<10	130	0.45	0.20	0.36	1.48	16.75	6.3	16
ZZ41038		0.11	0.005	0.94	1.00	158.0	<0.2	<10	110	0.41	0.93	1.17	2.07	14.85	7.0	14
ZZ41039		0.14	0.004	0.30	1.45	59.2	<0.2	<10	210	0.50	0.39	0.33	1.06	20.3	7.8	24
ZZ41040		0.20	0.005	2.73	1.59	264	<0.2	<10	220	0.70	7.48	0.92	3.07	14.10	11.1	25



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CERTIFICATE OF ANALYSIS WH12189037

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ41001		1.74	16.8	2.99	5.16	<0.05	0.08	0.24	0.036	0.11	12.8	16.3	0.42	632	2.46
ZZ41002		0.66	54.8	0.90	2.95	<0.05	0.06	0.09	0.005	0.03	8.1	3.0	0.08	58	1.45
ZZ41003		1.44	15.3	1.77	3.94	<0.05	0.03	0.06	0.018	0.05	13.2	12.3	0.39	241	1.46
ZZ41004		1.94	24.8	2.45	3.39	<0.05	<0.02	0.05	0.022	0.08	15.9	11.5	0.40	495	3.43
ZZ41005		2.36	41.1	2.08	4.53	<0.05	<0.02	0.10	0.025	0.06	12.0	9.0	0.31	257	3.74
ZZ41006		2.37	51.6	2.94	5.13	0.06	0.03	0.10	0.050	0.07	18.4	13.9	0.45	404	5.07
ZZ41007		3.05	169.5	3.81	5.18	0.07	0.02	0.07	0.513	0.11	21.2	14.0	0.49	314	5.84
ZZ41008		4.45	196.0	3.89	6.76	0.07	<0.02	0.13	0.886	0.16	20.3	21.9	0.87	350	5.69
ZZ41009		2.99	162.0	3.49	5.34	0.07	0.02	0.08	0.935	0.11	19.2	15.0	0.58	287	7.58
ZZ41010		2.00	23.4	2.30	6.04	<0.05	<0.02	0.08	0.060	0.07	12.1	11.2	0.34	163	2.70
ZZ41011		1.62	35.8	2.66	3.86	0.07	0.06	0.12	0.034	0.10	20.9	14.5	0.45	372	4.74
ZZ41012		1.58	41.3	2.58	3.96	0.08	0.04	0.08	0.037	0.09	21.0	14.5	0.53	311	4.20
ZZ41013		2.98	216	3.42	6.92	0.06	<0.02	0.10	0.244	0.10	20.6	20.9	0.69	299	4.23
ZZ41014		3.78	133.5	3.20	6.49	0.07	0.02	0.06	0.385	0.08	18.0	21.8	0.95	791	4.94
ZZ41015		3.69	84.2	2.98	6.67	0.07	0.02	0.04	0.264	0.11	15.4	24.0	1.37	765	3.61
ZZ41016		3.46	79.0	2.87	5.88	0.06	0.02	0.09	0.359	0.11	16.8	18.4	0.66	449	5.19
ZZ41017		5.12	79.6	3.28	7.47	0.05	0.02	0.07	0.532	0.12	19.6	22.9	0.85	438	5.88
ZZ41018		4.03	70.4	2.66	6.72	0.06	<0.02	0.05	0.309	0.08	14.1	18.2	0.70	656	4.34
ZZ41019		3.90	125.5	2.42	6.29	0.05	<0.02	0.11	0.164	0.08	14.8	15.8	0.61	240	3.03
ZZ41020		1.68	16.1	3.01	5.71	0.05	0.05	0.05	0.030	0.07	14.7	17.5	0.40	229	2.68
ZZ41021		1.14	5.0	0.55	4.46	<0.05	<0.02	0.01	0.006	0.03	11.5	0.9	0.03	20	1.23
ZZ41022		1.60	29.1	2.71	4.63	0.06	<0.02	0.09	0.030	0.09	17.0	16.6	0.40	237	4.66
ZZ41023		2.21	50.0	1.93	4.94	0.05	<0.02	0.09	0.023	0.11	11.9	14.0	0.37	219	1.82
ZZ41024		2.33	43.6	2.23	5.05	0.05	<0.02	0.07	0.030	0.11	13.2	13.3	0.46	227	2.28
ZZ41025		2.05	25.5	2.07	5.50	<0.05	0.02	0.03	0.024	0.09	11.0	11.8	0.36	182	1.94
ZZ41026		1.76	48.9	2.51	5.24	0.05	<0.02	0.13	0.032	0.11	17.3	15.4	0.41	235	2.79
ZZ41027		2.35	40.6	1.96	4.37	0.06	<0.02	0.19	0.031	0.07	12.2	11.8	0.28	193	3.31
ZZ41028		1.87	30.9	2.36	4.41	0.05	0.02	0.04	0.043	0.07	12.7	14.8	0.39	183	3.59
ZZ41029		2.12	15.7	3.05	6.58	<0.05	0.13	0.01	0.022	0.09	12.1	21.7	0.48	199	3.51
ZZ41030		1.96	25.9	2.55	5.01	0.05	0.03	0.05	0.044	0.09	12.6	16.0	0.47	269	2.81
ZZ41031		1.97	21.1	2.54	6.96	0.05	0.04	0.06	0.031	0.07	12.0	17.8	0.62	181	2.74
ZZ41032		2.21	28.5	2.58	6.10	0.06	0.03	0.05	0.045	0.07	15.2	16.8	0.40	240	3.28
ZZ41033		1.35	52.5	1.71	3.63	0.05	0.02	0.13	0.019	0.05	14.8	11.3	0.33	257	2.09
ZZ41034		1.68	74.0	2.36	4.69	0.06	0.03	0.08	0.022	0.06	17.2	16.7	0.40	176	1.47
ZZ41035		3.01	24.1	1.88	4.75	0.05	<0.02	0.02	0.013	0.06	8.2	12.1	0.33	134	10.00
ZZ41036		2.42	30.0	3.40	6.68	<0.05	0.05	0.04	0.031	0.07	12.7	25.7	0.46	161	2.87
ZZ41037		1.62	29.1	1.82	4.07	<0.05	<0.02	0.02	0.026	0.05	8.7	13.0	0.22	226	3.17
ZZ41038		1.66	34.8	1.49	3.00	<0.05	<0.02	0.04	0.027	0.05	7.1	10.7	0.30	432	1.46
ZZ41039		2.50	40.2	2.55	5.44	0.05	0.02	0.02	0.029	0.06	11.2	17.9	0.40	210	3.22
ZZ41040		2.78	50.9	2.13	5.53	0.05	<0.02	0.06	0.213	0.06	7.5	19.0	0.57	418	2.63



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm 0.05	ppm 0.2	ppm 10	ppm 0.2	ppm 0.1	ppm 0.001	% 0.01	ppm 0.05	ppm 0.1	ppm 0.2	ppm 0.2	ppm 0.2	ppm 0.01	ppm 0.01
ZZ41001		0.67	18.2	890	22.8	13.6	<0.001	0.10	2.85	5.0	1.4	0.9	40.7	<0.01	0.06
ZZ41002		0.38	10.3	1440	5.8	2.6	<0.001	0.29	2.30	1.4	1.2	0.3	20.8	<0.01	0.04
ZZ41003		0.68	17.3	1050	21.1	7.6	<0.001	0.05	2.61	2.2	0.8	0.7	20.7	<0.01	0.02
ZZ41004		0.31	25.1	1360	61.5	10.4	<0.001	0.06	7.31	1.6	1.2	0.7	24.8	<0.01	0.06
ZZ41005		0.57	13.3	840	43.6	11.2	<0.001	0.08	4.07	1.9	1.2	1.0	16.3	<0.01	0.13
ZZ41006		0.82	23.4	1040	62.8	13.0	<0.001	0.07	5.35	3.3	1.5	1.7	24.2	<0.01	0.19
ZZ41007		0.86	22.2	1180	494	13.3	<0.001	0.07	6.63	3.8	3.2	5.8	95.4	<0.01	1.02
ZZ41008		0.94	27.1	1570	88.1	24.3	<0.001	0.08	6.08	4.2	2.8	5.7	40.3	<0.01	1.30
ZZ41009		0.72	20.2	960	90.0	12.9	<0.001	0.07	5.97	3.7	2.3	5.3	67.4	<0.01	1.84
ZZ41010		0.76	14.6	700	33.6	10.0	<0.001	0.05	1.86	1.3	1.3	1.3	11.3	<0.01	0.19
ZZ41011		0.67	32.2	1210	138.0	10.0	<0.001	0.04	9.41	3.4	2.0	1.3	22.6	<0.01	0.04
ZZ41012		0.69	34.3	1630	103.5	9.8	0.002	0.03	7.31	3.5	1.7	1.1	30.3	<0.01	0.04
ZZ41013		0.86	30.2	1090	98.1	18.3	0.001	0.07	6.26	2.5	2.3	4.8	26.1	<0.01	0.42
ZZ41014		0.80	48.7	1590	179.0	16.5	0.001	0.06	13.05	2.9	2.0	12.7	48.3	<0.01	0.23
ZZ41015		0.63	47.6	1410	53.8	14.2	<0.001	0.04	5.58	3.4	1.6	7.6	40.7	<0.01	0.15
ZZ41016		0.76	34.4	1270	88.5	17.7	0.001	0.06	9.05	2.4	1.9	3.8	29.2	<0.01	0.09
ZZ41017		0.83	49.3	1770	591	27.9	<0.001	0.07	7.89	2.8	2.0	4.7	40.1	<0.01	0.09
ZZ41018		0.73	26.1	1250	208	20.0	0.002	0.08	4.57	1.8	3.4	8.7	27.6	<0.01	0.09
ZZ41019		0.88	29.0	1370	101.0	18.7	0.002	0.09	7.03	2.1	2.1	5.3	24.5	<0.01	0.06
ZZ41020		1.11	19.1	550	62.0	11.2	<0.001	0.02	1.97	2.4	1.0	0.9	10.5	<0.01	0.04
ZZ41021		0.14	3.1	270	11.9	4.8	<0.001	0.01	1.10	0.2	0.3	1.1	5.8	<0.01	0.03
ZZ41022		0.80	24.3	1570	32.4	10.4	0.001	0.06	4.85	1.9	1.5	1.1	32.5	<0.01	0.07
ZZ41023		0.64	19.8	700	15.7	19.1	<0.001	0.02	1.23	1.8	1.0	0.8	16.6	<0.01	0.04
ZZ41024		0.62	20.0	790	38.6	16.4	<0.001	0.03	2.05	1.8	1.0	1.1	19.3	0.01	0.03
ZZ41025		0.95	16.5	360	24.7	13.8	<0.001	0.01	1.86	2.8	0.8	1.1	12.7	<0.01	0.05
ZZ41026		0.84	23.9	700	33.4	14.1	<0.001	0.01	2.30	3.5	2.1	1.1	20.8	<0.01	0.04
ZZ41027		0.51	20.1	1010	39.9	13.4	0.002	0.05	1.78	2.0	3.1	0.9	22.5	<0.01	0.04
ZZ41028		0.68	24.3	900	52.6	12.6	<0.001	0.04	4.54	2.2	1.3	1.1	30.1	<0.01	0.05
ZZ41029		1.28	19.5	340	17.2	19.4	0.001	0.02	1.77	3.5	1.0	1.0	12.8	<0.01	0.03
ZZ41030		0.90	24.2	730	51.8	11.8	<0.001	0.02	3.82	3.4	1.3	1.2	25.3	<0.01	0.06
ZZ41031		1.33	23.7	760	39.9	13.0	<0.001	0.03	2.99	3.1	1.4	1.8	18.2	<0.01	0.04
ZZ41032		1.18	24.5	810	72.7	13.3	<0.001	0.04	3.56	2.8	1.6	1.8	24.6	<0.01	0.06
ZZ41033		0.68	16.9	980	21.1	9.9	0.003	0.03	1.47	2.4	1.3	0.6	21.5	<0.01	0.04
ZZ41034		1.12	22.3	510	14.3	9.9	<0.001	0.01	1.10	3.1	1.5	0.7	13.6	<0.01	0.05
ZZ41035		1.00	13.4	420	7.9	12.5	<0.001	0.05	0.98	1.8	2.3	0.5	22.0	<0.01	0.03
ZZ41036		1.48	36.1	300	21.4	12.7	0.001	0.02	1.88	3.3	2.0	0.9	16.8	<0.01	0.05
ZZ41037		0.63	17.5	630	13.7	7.9	<0.001	0.03	1.56	1.4	2.7	0.5	30.1	0.01	0.05
ZZ41038		0.51	22.6	650	41.3	8.7	0.001	0.06	1.51	1.4	3.5	0.7	40.3	<0.01	0.08
ZZ41039		0.77	30.0	650	16.7	11.1	0.001	0.02	3.18	2.2	1.7	0.7	35.9	<0.01	0.06
ZZ41040		0.62	32.6	710	60.8	11.9	0.001	0.07	14.80	1.8	2.9	2.4	36.8	<0.01	0.13



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Sample Description	Method Analyte Units LOR	ME-MS41 Ti %	ME-MS41 Ti ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ41001		0.012	0.26	1.32	64	0.13	6.94	132	2.1
ZZ41002		0.019	0.18	1.62	29	0.09	8.77	29	2.0
ZZ41003		0.027	0.21	1.12	39	0.16	6.35	88	0.6
ZZ41004		0.020	0.27	1.71	58	0.19	9.78	174	<0.5
ZZ41005		0.027	0.22	1.72	48	0.24	5.84	92	<0.5
ZZ41006		0.032	0.27	2.37	69	1.00	8.84	143	0.7
ZZ41007		0.047	0.22	2.33	71	0.75	11.15	260	0.5
ZZ41008		0.052	0.44	3.01	105	0.53	11.45	330	0.5
ZZ41009		0.050	0.28	2.08	70	0.61	9.93	351	0.5
ZZ41010		0.041	0.25	1.22	86	0.52	3.50	69	<0.5
ZZ41011		0.025	0.31	1.67	83	0.18	9.85	190	1.7
ZZ41012		0.031	0.25	2.03	89	0.16	11.55	202	1.4
ZZ41013		0.035	0.35	3.39	118	0.43	8.88	230	<0.5
ZZ41014		0.044	0.33	4.12	120	0.45	12.75	516	<0.5
ZZ41015		0.031	0.38	2.49	91	0.40	9.57	302	0.6
ZZ41016		0.028	0.30	3.55	94	0.29	8.83	418	<0.5
ZZ41017		0.026	0.47	2.89	143	0.27	11.60	747	0.7
ZZ41018		0.032	0.36	2.58	92	0.29	6.06	348	<0.5
ZZ41019		0.028	0.39	2.29	98	0.29	7.00	598	<0.5
ZZ41020		0.036	0.23	0.90	75	0.41	4.21	117	0.5
ZZ41021		0.014	0.14	0.36	28	0.14	1.43	18	<0.5
ZZ41022		0.026	0.26	1.62	89	0.23	7.38	133	0.5
ZZ41023		0.031	0.23	1.11	50	0.20	5.83	80	<0.5
ZZ41024		0.030	0.23	1.17	63	0.18	6.07	96	<0.5
ZZ41025		0.041	0.19	0.66	63	0.28	4.87	79	1.1
ZZ41026		0.027	0.23	1.56	62	0.21	11.95	121	<0.5
ZZ41027		0.021	0.26	1.52	57	0.15	7.94	115	<0.5
ZZ41028		0.026	0.20	1.28	65	0.29	5.80	159	0.5
ZZ41029		0.047	0.26	0.74	74	0.31	3.70	102	5.4
ZZ41030		0.040	0.20	1.01	66	0.39	6.43	123	1.4
ZZ41031		0.048	0.27	0.95	79	0.22	5.02	146	1.7
ZZ41032		0.043	0.26	1.51	76	0.27	8.01	172	0.9
ZZ41033		0.032	0.23	1.95	39	0.38	9.06	100	0.6
ZZ41034		0.038	0.25	1.18	44	0.33	6.34	84	0.8
ZZ41035		0.050	0.32	1.08	49	0.31	3.57	56	<0.5
ZZ41036		0.041	0.21	0.68	68	0.29	3.66	134	2.1
ZZ41037		0.026	0.08	0.83	36	0.21	3.62	231	<0.5
ZZ41038		0.024	0.15	2.16	27	0.25	4.82	182	<0.5
ZZ41039		0.037	0.15	1.04	58	0.31	4.43	187	0.5
ZZ41040		0.034	0.19	1.46	51	0.16	5.67	369	<0.5



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ41041		0.14	0.005	0.90	1.93	68.9	<0.2	<10	480	0.54	0.66	0.41	1.04	27.7	6.7	35
ZZ41042		0.19	0.005	1.04	2.05	170.0	<0.2	<10	300	0.68	0.60	0.23	0.41	30.2	6.7	27
ZZ41043		0.19	0.006	1.06	1.41	276	<0.2	<10	260	0.48	0.69	0.76	2.68	26.3	9.3	20
ZZ41044		0.24	NSS	0.99	1.77	104.0	<0.2	<10	330	0.71	0.61	0.97	1.73	25.1	8.0	25
ZZ41045		0.12	0.002	0.44	1.54	70.4	<0.2	<10	200	0.61	0.45	0.92	0.65	17.20	8.1	18
ZZ41046		0.20	0.006	0.78	1.45	61.5	<0.2	<10	260	0.58	0.29	1.88	2.12	18.70	8.2	14
ZZ41047		0.10	0.006	0.74	1.50	185.5	<0.2	<10	220	0.74	0.72	0.68	1.80	20.7	7.3	15
ZZ41048		0.17	0.003	0.61	1.69	101.0	<0.2	<10	280	0.80	0.58	0.37	1.72	25.4	7.0	20
ZZ41049		0.15	0.004	0.65	1.92	95.1	<0.2	<10	340	0.80	0.55	0.26	0.94	27.0	9.8	20
ZZ41050		0.15	0.005	1.13	1.50	59.7	<0.2	<10	310	0.45	0.40	0.81	0.42	20.3	5.0	23
ZZ41051		0.18	0.005	1.05	1.06	40.6	<0.2	<10	240	0.47	0.20	0.57	0.38	16.30	4.3	14
ZZ41052		0.28	0.002	0.67	1.48	17.3	<0.2	<10	210	0.64	0.27	0.46	0.29	22.9	5.9	23
ZZ41053		0.19	0.002	0.33	1.90	40.1	<0.2	<10	200	0.73	0.35	0.51	0.41	23.2	8.1	32
ZZ41054		0.12	0.002	0.28	1.44	44.7	<0.2	<10	170	0.39	0.40	0.29	0.59	18.45	5.6	23
ZZ41055		0.14	0.003	1.10	2.55	71.4	<0.2	<10	580	0.75	0.68	0.17	1.34	25.9	11.0	42
ZZ41056		0.25	0.003	1.27	1.56	114.0	<0.2	<10	230	0.45	0.51	0.21	1.02	26.5	8.2	25
ZZ41057		0.20	0.002	1.78	1.42	75.0	<0.2	<10	260	0.50	1.11	0.14	1.60	21.3	5.5	20
ZZ41058		0.20	0.005	1.26	1.49	103.5	<0.2	<10	260	0.64	0.87	0.15	0.97	27.3	8.0	24
ZZ41059		0.16	0.003	0.77	1.18	37.1	<0.2	<10	170	0.43	0.27	0.21	1.66	16.85	5.2	17
ZZ41060		0.28	0.003	2.22	2.33	55.9	<0.2	<10	560	0.87	0.33	0.63	1.36	20.9	8.2	40
ZZ41061		0.13	0.002	0.21	0.64	13.5	<0.2	<10	150	0.23	0.10	0.60	0.27	15.15	3.9	9
ZZ41062		0.23	0.006	0.70	1.05	26.6	<0.2	<10	220	0.60	0.28	0.76	4.28	37.4	6.0	20
ZZ41063		0.11	0.004	0.44	0.93	27.7	<0.2	<10	150	0.39	0.31	0.28	2.71	25.9	6.8	17
ZZ41064		0.19	0.005	0.22	0.92	45.0	<0.2	<10	310	0.49	0.33	0.29	0.91	44.1	10.1	15
ZZ41065		0.32	0.004	0.28	1.02	33.5	<0.2	<10	190	0.37	0.26	0.20	1.39	27.6	11.2	17
ZZ41066		0.29	0.005	0.65	0.97	42.6	<0.2	<10	310	0.35	0.23	0.42	3.65	28.5	5.1	15
ZZ41067		0.15	0.002	0.13	0.80	17.7	<0.2	<10	70	0.16	0.27	0.04	0.35	19.10	3.3	15
ZZ41068		0.16	0.002	0.17	1.01	14.6	<0.2	<10	190	0.26	0.16	0.15	0.67	17.00	6.3	14
ZZ41069		0.14	0.003	0.30	1.35	12.2	<0.2	<10	320	0.51	0.22	1.53	0.66	36.7	12.5	22
ZZ41070		0.15	0.004	0.28	1.26	5.1	<0.2	<10	310	0.42	0.34	1.37	0.84	33.5	16.1	19
ZZ41071		0.26	0.002	0.38	1.24	9.2	<0.2	<10	340	0.47	0.27	0.58	0.75	39.6	12.0	21
ZZ41072		0.19	0.001	0.20	0.97	5.9	<0.2	<10	290	0.32	0.13	1.06	0.28	22.5	5.2	11
ZZ41073		0.28	0.004	0.39	1.49	22.3	<0.2	<10	220	0.49	0.31	0.56	0.68	38.5	15.5	24
ZZ41074		0.20	0.002	0.13	0.78	70.0	<0.2	<10	170	0.27	0.45	0.28	0.59	15.15	7.5	12
ZZ41075		0.21	0.003	0.33	1.18	12.9	<0.2	<10	380	0.60	0.21	0.98	2.14	30.6	8.5	19
ZZ41076		0.19	0.001	0.08	1.61	18.7	<0.2	<10	120	0.29	0.27	0.09	0.17	24.1	4.2	18
ZZ41077		0.19	0.001	0.10	1.15	5.4	<0.2	<10	160	0.25	0.20	0.44	0.33	19.90	3.3	12
ZZ41078		0.17	0.001	0.08	0.85	13.6	<0.2	<10	90	0.27	0.26	0.09	0.23	34.8	16.3	14
ZZ41079		0.19	0.007	0.09	0.96	11.0	<0.2	<10	160	0.35	0.97	0.34	0.61	27.0	9.7	18
ZZ41080		0.19	0.015	0.29	0.86	19.3	<0.2	<10	160	0.31	0.41	0.46	0.44	36.1	12.7	15



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ41041		3.24	41.7	2.72	6.85	0.05	<0.02	0.11	0.045	0.09	15.3	23.6	0.63	197	7.02
ZZ41042		1.77	26.2	2.46	6.22	0.05	0.03	0.06	0.047	0.08	17.2	16.9	0.46	175	1.99
ZZ41043		3.17	90.1	2.00	3.88	0.06	0.06	0.12	0.054	0.08	14.9	17.1	0.38	246	3.88
ZZ41044		2.33	36.0	2.36	4.33	0.05	0.11	0.07	0.054	0.11	13.3	15.0	0.56	229	2.24
ZZ41045		3.09	28.6	2.19	4.05	<0.05	0.04	0.03	0.034	0.07	8.9	17.8	0.43	196	1.55
ZZ41046		1.96	57.4	1.75	3.09	<0.05	0.05	0.07	0.032	0.06	10.8	11.0	0.33	323	0.76
ZZ41047		2.05	32.9	2.31	3.75	<0.05	0.05	0.05	0.074	0.09	10.6	10.3	0.34	210	1.96
ZZ41048		2.78	77.3	2.36	4.32	0.06	0.04	0.05	0.062	0.09	12.8	13.9	0.47	161	3.72
ZZ41049		3.05	57.8	2.70	4.77	0.05	0.05	0.09	0.058	0.10	13.9	17.1	0.47	240	3.26
ZZ41050		2.59	24.9	1.70	4.50	0.05	0.05	0.04	0.047	0.09	10.9	13.5	0.55	160	1.95
ZZ41051		1.62	39.5	1.44	3.08	<0.05	0.03	0.02	0.027	0.06	8.3	7.5	0.27	179	1.26
ZZ41052		2.08	23.2	2.09	4.68	<0.05	<0.02	0.06	0.021	0.06	10.8	12.9	0.34	180	1.58
ZZ41053		3.02	18.8	2.43	5.53	<0.05	0.03	0.02	0.028	0.07	11.5	16.5	0.53	267	1.11
ZZ41054		2.01	14.4	1.98	5.59	<0.05	<0.02	0.02	0.021	0.07	9.6	13.8	0.38	153	1.29
ZZ41055		2.43	46.1	2.76	7.08	0.06	0.10	0.02	0.043	0.06	13.4	21.0	0.65	177	2.06
ZZ41056		1.74	25.9	3.07	4.20	<0.05	0.02	0.02	0.056	0.10	14.0	14.4	0.48	296	3.59
ZZ41057		1.31	31.5	2.31	5.15	<0.05	0.02	0.02	0.037	0.06	11.5	9.6	0.26	170	1.76
ZZ41058		1.89	37.5	2.74	4.15	<0.05	0.05	0.06	0.057	0.07	13.8	14.7	0.44	181	2.70
ZZ41059		1.53	18.6	1.96	4.29	<0.05	<0.02	0.02	0.026	0.05	8.8	9.9	0.25	160	2.66
ZZ41060		3.29	88.9	2.79	8.63	0.07	0.03	0.03	0.057	0.12	11.3	18.9	1.04	209	3.72
ZZ41061		0.96	12.6	1.18	2.21	<0.05	0.02	0.03	0.010	0.05	7.3	6.7	0.22	446	0.72
ZZ41062		2.74	56.7	1.72	3.34	0.07	0.05	0.25	0.027	0.08	22.8	8.1	0.55	287	10.10
ZZ41063		2.15	26.7	1.64	3.50	<0.05	<0.02	0.14	0.014	0.05	16.0	5.8	0.39	472	6.66
ZZ41064		1.02	32.1	3.04	2.65	0.08	0.04	0.09	0.023	0.08	24.7	11.6	0.41	526	1.62
ZZ41065		2.58	21.3	2.25	3.74	<0.05	<0.02	0.10	0.030	0.06	15.7	11.5	0.36	546	5.03
ZZ41066		2.15	39.7	1.70	2.89	0.06	0.03	0.36	0.019	0.05	17.1	6.3	0.35	416	11.15
ZZ41067		2.47	10.4	2.09	5.65	<0.05	<0.02	0.04	0.015	0.04	9.9	4.4	0.14	139	3.75
ZZ41068		2.05	14.9	2.11	3.33	<0.05	<0.02	0.10	0.018	0.04	9.1	12.8	0.29	328	13.10
ZZ41069		2.16	28.3	2.85	4.23	0.06	0.05	0.13	0.037	0.06	20.7	25.5	0.52	596	1.33
ZZ41070		3.76	28.9	2.00	3.75	0.05	0.04	0.07	0.024	0.06	19.1	25.7	0.45	1370	0.80
ZZ41071		1.64	30.0	2.65	4.05	0.06	0.04	0.15	0.040	0.06	21.3	21.1	0.44	455	1.58
ZZ41072		2.50	18.7	1.57	2.73	<0.05	0.02	0.06	0.018	0.05	13.2	13.4	0.23	270	0.73
ZZ41073		1.97	38.4	3.71	4.63	0.06	0.03	0.10	0.043	0.06	20.4	29.9	0.72	561	3.67
ZZ41074		1.57	32.4	1.61	3.01	<0.05	<0.02	0.03	0.030	0.04	8.0	8.7	0.18	284	2.37
ZZ41075		1.05	55.5	2.05	3.91	0.05	0.03	0.18	0.024	0.05	17.0	14.0	0.34	560	1.68
ZZ41076		1.42	16.3	2.66	7.88	<0.05	0.03	0.02	0.020	0.04	12.6	17.5	0.22	108	1.97
ZZ41077		1.89	12.7	1.24	4.77	<0.05	<0.02	0.01	0.013	0.04	9.9	11.9	0.15	92	0.95
ZZ41078		3.38	14.4	2.50	5.59	0.06	<0.02	0.02	0.060	0.06	16.9	11.9	0.14	680	1.75
ZZ41079		1.80	25.8	2.02	3.95	<0.05	<0.02	0.03	0.041	0.06	13.0	17.5	0.30	303	2.53
ZZ41080		1.76	32.3	1.61	2.59	0.05	0.04	0.11	0.077	0.06	14.8	13.5	0.20	536	2.27



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm 0.05	ppm 0.2	ppm 10	ppm 0.2	ppm 0.1	ppm 0.001	% 0.01	ppm 0.05	ppm 0.1	ppm 0.2	ppm 0.2	ppm 0.2	ppm 0.01	ppm 0.01
ZZ41041		0.87	27.5	890	43.3	18.6	0.001	0.05	6.51	3.0	2.5	1.7	30.1	<0.01	0.07
ZZ41042		1.16	21.1	570	64.1	11.4	<0.001	0.01	2.67	3.7	1.3	1.4	20.6	<0.01	0.05
ZZ41043		0.65	107.5	1310	66.8	13.2	0.006	0.06	11.50	2.9	5.4	1.3	60.6	<0.01	0.05
ZZ41044		0.73	44.2	1210	76.9	12.3	<0.001	0.04	6.54	3.6	1.7	1.2	63.2	<0.01	0.05
ZZ41045		0.82	28.2	520	41.3	13.4	0.002	0.05	3.15	2.3	1.4	0.7	57.9	<0.01	0.06
ZZ41046		0.53	32.5	820	31.2	7.7	<0.001	0.07	3.63	2.1	1.8	0.6	65.5	<0.01	0.03
ZZ41047		0.53	34.8	980	101.0	11.2	<0.001	0.06	11.70	1.9	0.8	1.3	46.2	<0.01	0.06
ZZ41048		0.52	39.0	950	90.2	12.7	0.002	0.04	6.11	2.2	1.5	1.8	43.6	<0.01	0.09
ZZ41049		0.53	40.3	790	86.2	14.6	<0.001	0.05	6.28	2.7	1.3	1.5	36.4	<0.01	0.05
ZZ41050		0.57	26.0	1040	81.3	14.3	<0.001	0.04	3.25	2.6	1.2	1.3	43.2	<0.01	0.04
ZZ41051		0.45	18.2	790	56.1	11.6	<0.001	0.04	2.30	1.6	0.8	0.7	35.3	<0.01	0.04
ZZ41052		0.92	15.4	410	22.2	13.0	<0.001	0.02	1.16	2.3	0.7	0.7	25.9	<0.01	0.03
ZZ41053		1.00	27.4	490	38.6	17.5	<0.001	0.03	1.33	2.7	0.5	0.7	25.7	<0.01	0.06
ZZ41054		1.08	17.6	350	30.3	20.0	<0.001	0.01	1.26	2.3	0.2	0.9	24.1	<0.01	0.05
ZZ41055		1.57	48.2	570	66.1	10.5	<0.001	0.02	3.00	4.6	1.2	1.1	16.7	<0.01	0.07
ZZ41056		0.86	26.1	920	52.8	13.0	<0.001	0.02	4.80	2.9	1.3	1.1	22.3	<0.01	0.06
ZZ41057		0.91	14.9	690	84.8	13.2	<0.001	0.01	2.44	1.8	0.8	1.3	16.6	<0.01	0.06
ZZ41058		0.80	31.1	590	72.8	11.7	<0.001	0.02	4.59	3.4	1.0	1.4	19.0	<0.01	0.04
ZZ41059		0.75	14.0	340	86.9	13.5	<0.001	0.01	3.07	1.7	0.8	1.4	18.3	<0.01	0.02
ZZ41060		1.41	36.4	2620	74.9	36.3	<0.001	0.03	3.48	3.4	1.4	2.1	108.5	<0.01	0.06
ZZ41061		0.24	6.5	590	9.0	4.1	0.001	0.07	2.30	2.0	0.7	0.3	16.7	<0.01	0.04
ZZ41062		0.41	42.2	1330	16.0	8.6	0.009	0.07	7.08	2.2	6.3	0.5	49.6	<0.01	0.07
ZZ41063		0.39	19.1	1090	15.1	7.4	0.002	0.04	4.86	1.2	3.5	0.5	29.9	<0.01	0.06
ZZ41064		0.19	22.5	820	20.1	4.1	<0.001	0.01	7.54	5.4	1.2	0.4	21.7	<0.01	0.04
ZZ41065		0.44	20.4	880	16.6	8.4	0.001	0.02	5.92	2.8	2.0	0.4	25.0	<0.01	0.06
ZZ41066		0.22	20.2	1320	20.6	6.7	0.006	0.07	8.35	1.8	5.5	0.4	45.0	<0.01	0.06
ZZ41067		0.73	10.8	400	10.6	6.2	<0.001	0.02	3.00	1.2	0.4	0.7	8.5	<0.01	0.03
ZZ41068		0.39	12.1	750	14.1	7.1	0.001	0.02	3.13	2.4	0.9	0.4	12.5	<0.01	0.03
ZZ41069		0.85	24.1	720	17.7	8.2	0.001	0.07	2.51	7.1	2.0	0.5	42.4	<0.01	0.04
ZZ41070		0.48	16.9	670	13.8	9.2	<0.001	0.06	1.10	6.2	1.4	0.4	38.3	<0.01	0.04
ZZ41071		0.59	24.5	600	45.4	7.9	0.001	0.02	2.36	6.9	1.6	0.5	24.7	<0.01	0.04
ZZ41072		0.38	11.0	570	7.1	6.2	<0.001	0.03	0.98	3.8	1.1	0.3	30.5	<0.01	0.04
ZZ41073		0.57	30.8	950	49.4	7.9	<0.001	0.02	6.73	7.2	2.2	0.5	29.8	<0.01	0.06
ZZ41074		0.38	8.0	500	21.7	8.1	<0.001	0.02	5.34	1.6	0.7	0.4	15.1	<0.01	0.12
ZZ41075		0.82	25.9	630	13.5	7.8	<0.001	0.03	3.35	5.1	1.1	0.5	29.4	<0.01	0.02
ZZ41076		1.34	11.4	240	12.4	9.8	<0.001	0.01	1.30	2.5	0.2	0.9	12.5	<0.01	0.05
ZZ41077		0.79	6.1	340	10.5	7.6	<0.001	0.02	0.69	2.2	<0.2	0.7	21.4	0.01	0.02
ZZ41078		0.73	12.2	430	37.2	10.5	<0.001	0.01	9.31	4.7	<0.2	0.7	9.3	<0.01	0.05
ZZ41079		0.64	14.1	430	20.2	9.4	0.001	0.01	4.36	2.9	0.3	0.6	18.8	<0.01	0.04
ZZ41080		0.25	28.5	580	67.1	5.8	0.001	0.01	2.01	4.5	0.4	0.9	15.9	<0.01	0.02



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Sample Description	Method Analyte Units LOR	ME-MS41 Ti %	ME-MS41 Ti ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ41041		0.040	0.49	1.47	89	0.21	5.65	231	<0.5
ZZ41042		0.032	0.24	1.89	66	0.35	7.43	126	1.1
ZZ41043		0.025	0.18	9.44	52	0.20	12.90	483	1.8
ZZ41044		0.027	0.17	2.34	80	0.14	12.90	560	3.4
ZZ41045		0.029	0.16	1.95	54	0.16	5.36	183	1.4
ZZ41046		0.024	0.10	2.37	39	0.10	14.90	320	1.6
ZZ41047		0.019	0.15	1.74	50	0.33	7.68	487	1.7
ZZ41048		0.019	0.18	2.45	69	0.14	8.63	283	1.1
ZZ41049		0.015	0.20	2.77	68	0.15	8.54	287	1.4
ZZ41050		0.022	0.19	1.91	77	0.14	5.46	195	1.6
ZZ41051		0.023	0.12	1.59	45	0.19	6.33	77	0.8
ZZ41052		0.036	0.20	1.51	60	0.27	5.01	74	<0.5
ZZ41053		0.042	0.21	1.42	97	0.26	6.31	108	0.5
ZZ41054		0.041	0.16	0.79	83	0.34	3.60	115	0.5
ZZ41055		0.057	0.27	1.86	159	0.27	10.15	299	3.0
ZZ41056		0.039	0.15	1.27	58	0.48	5.44	202	0.7
ZZ41057		0.030	0.14	1.15	62	0.37	3.60	134	0.5
ZZ41058		0.027	0.21	1.26	61	0.25	5.97	131	1.7
ZZ41059		0.027	0.12	0.74	51	0.21	3.07	160	<0.5
ZZ41060		0.058	0.42	2.17	112	0.54	8.02	266	1.4
ZZ41061		0.011	0.05	0.60	19	0.07	3.46	51	0.6
ZZ41062		0.013	0.52	4.89	182	0.14	16.50	277	1.2
ZZ41063		0.015	0.34	2.57	137	0.18	8.00	162	<0.5
ZZ41064		0.009	0.09	0.89	34	0.08	12.30	144	2.2
ZZ41065		0.015	0.22	1.67	91	0.16	6.59	166	<0.5
ZZ41066		0.008	0.74	4.04	118	0.15	10.05	158	1.0
ZZ41067		0.025	0.16	0.58	63	0.30	2.73	81	<0.5
ZZ41068		0.013	0.17	1.32	44	0.15	4.68	106	<0.5
ZZ41069		0.017	0.12	1.55	42	0.14	17.85	94	1.2
ZZ41070		0.014	0.12	1.23	38	0.14	15.75	78	0.9
ZZ41071		0.015	0.20	1.48	40	0.19	15.15	153	1.0
ZZ41072		0.015	0.06	0.69	25	0.07	10.50	53	0.8
ZZ41073		0.020	0.24	1.43	68	0.17	12.50	310	1.1
ZZ41074		0.016	0.10	1.15	29	0.11	3.55	72	<0.5
ZZ41075		0.027	0.10	2.38	36	0.16	14.15	1280	0.9
ZZ41076		0.021	0.12	0.55	64	0.28	2.51	49	1.1
ZZ41077		0.022	0.08	0.99	37	0.31	4.03	38	<0.5
ZZ41078		0.016	0.18	0.77	44	0.25	5.21	81	<0.5
ZZ41079		0.018	0.14	0.81	40	0.26	4.58	263	0.6
ZZ41080		<0.005	0.18	0.68	26	0.07	8.68	454	1.5



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ41081		0.20	0.001	0.09	0.75	11.5	<0.2	<10	90	0.23	0.15	0.17	0.33	16.20	5.8	12
ZZ41082		0.18	0.005	1.65	1.15	16.9	<0.2	<10	280	0.67	0.20	0.79	13.70	35.6	6.0	21
ZZ41083		0.20	<0.001	0.04	0.51	4.5	<0.2	<10	50	0.12	0.10	0.04	0.10	8.13	1.6	6
ZZ41084		0.16	0.003	0.19	0.72	24.0	<0.2	<10	160	0.22	0.33	0.55	0.33	17.25	5.7	9
ZZ41085		0.25	0.003	0.13	0.90	41.3	<0.2	<10	140	0.33	0.42	0.20	0.45	28.7	8.4	13
ZZ41086		0.26	0.006	0.63	1.32	14.9	<0.2	<10	340	0.65	0.33	0.75	2.52	35.6	11.6	24
ZZ41087		0.41	0.013	0.77	1.35	40.9	<0.2	<10	580	0.68	0.74	0.51	2.81	54.0	16.8	21
ZZ41088		0.11	0.002	0.31	0.86	15.9	<0.2	<10	320	0.34	0.29	1.24	1.32	23.0	7.7	12
ZZ41089		0.31	0.011	1.03	1.51	216	<0.2	<10	340	1.03	0.29	0.45	9.98	34.9	22.1	26
ZZ41090		0.37	0.002	0.16	1.22	19.3	<0.2	<10	290	0.39	0.25	0.13	0.47	29.1	7.2	17
ZZ41091		0.30	0.001	0.21	0.52	6.0	<0.2	<10	100	0.29	0.09	0.10	0.37	13.40	3.7	6
ZZ41092		0.25	0.005	0.13	1.34	18.4	<0.2	<10	270	0.52	0.26	0.24	0.57	35.5	9.2	21
ZZ41093		0.35	0.012	0.19	1.52	16.2	<0.2	<10	300	0.90	0.28	0.26	0.64	52.6	12.1	23
ZZ41094		0.41	0.007	0.64	0.83	28.0	<0.2	<10	180	0.38	0.16	0.34	3.22	23.0	9.8	14
ZZ41095		0.37	0.007	0.55	1.42	13.0	<0.2	<10	230	0.52	0.26	0.23	0.70	36.1	6.9	22
ZZ41096		0.33	0.002	0.15	1.18	11.7	<0.2	<10	100	0.33	0.20	0.06	0.24	22.4	3.2	16
ZZ41097		0.19	0.001	0.03	1.33	10.9	<0.2	<10	150	0.36	0.22	0.10	0.24	22.9	4.7	19
ZZ41098		0.33	0.006	0.45	1.47	24.8	<0.2	<10	480	0.78	0.24	0.23	1.55	40.7	12.2	23
ZZ41099		0.19	0.004	0.25	1.93	14.3	<0.2	<10	130	0.52	0.25	0.10	0.54	26.2	6.6	30
ZZ41100		0.25	0.003	0.46	1.21	5.2	<0.2	<10	250	0.38	0.23	0.17	0.95	25.3	3.4	20
ZZ41101		0.52	0.005	0.40	1.25	16.4	<0.2	<10	340	0.49	0.29	0.35	2.53	35.0	9.0	24
ZZ41102		0.38	0.002	0.88	1.14	41.2	<0.2	<10	200	0.55	0.39	0.40	2.88	26.8	6.7	15
ZZ41103		0.19	0.001	0.33	1.31	12.3	<0.2	<10	450	0.52	0.24	0.73	0.51	24.7	8.5	19
ZZ41104		0.28	0.003	0.25	1.28	10.4	<0.2	<10	430	0.64	0.20	0.46	0.40	30.1	5.8	20
ZZ41105		0.30	0.001	0.13	1.77	26.5	<0.2	<10	260	0.59	0.35	0.14	0.23	31.6	8.6	24
ZZ41106		0.23	0.002	0.10	1.51	11.5	<0.2	<10	250	0.46	0.22	0.19	0.15	25.9	6.0	23
ZZ41107		0.29	0.003	0.41	1.27	25.9	<0.2	<10	1150	0.62	0.60	0.59	10.15	36.0	55.2	20
ZZ41108		0.27	0.006	0.29	1.16	29.2	<0.2	<10	270	0.64	1.36	0.27	0.64	44.9	7.0	18
ZZ41109		0.43	0.011	0.38	1.63	21.9	<0.2	<10	310	0.77	1.58	0.54	1.26	34.9	7.6	24
ZZ41110		0.15	0.007	0.52	1.93	44.5	<0.2	<10	450	0.89	2.06	0.35	3.80	45.6	8.8	29
ZZ41111		0.25	0.010	0.56	1.45	40.8	<0.2	<10	390	0.62	1.64	0.44	1.44	31.8	7.9	24
ZZ41112		0.29	0.011	0.68	1.44	242	<0.2	<10	270	0.63	5.98	0.28	0.81	33.5	8.4	18
ZZ41113		0.23	0.009	1.31	1.60	82.5	<0.2	<10	210	0.59	4.15	0.20	0.64	22.7	4.8	17
ZZ41114		0.28	0.012	1.59	1.76	186.5	<0.2	<10	220	0.67	8.61	0.27	0.97	28.3	7.5	24
ZZ41115		0.14	0.019	2.62	1.91	192.5	<0.2	<10	230	0.60	11.60	0.32	0.76	31.9	8.5	27
ZZ41116		0.18	0.016	1.52	1.89	93.6	<0.2	<10	180	0.68	10.10	0.34	1.08	27.5	8.6	23
ZZ41117		0.25	0.031	1.31	1.73	57.7	<0.2	<10	70	0.67	7.26	0.15	0.47	33.4	6.2	19
ZZ41118		0.25	0.006	0.71	1.59	109.5	<0.2	<10	170	0.59	3.20	0.22	0.78	29.5	7.6	24
ZZ41119		0.18	0.001	0.30	1.08	20.3	<0.2	<10	150	0.30	0.43	0.32	0.45	17.10	2.3	18
ZZ41120		0.19	0.004	0.90	1.43	76.1	<0.2	<10	260	0.63	0.99	0.23	1.06	31.7	7.2	21



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ41081		0.90	15.8	1.58	3.01	<0.05	<0.02	0.05	0.017	0.04	7.6	8.2	0.16	219	2.11
ZZ41082		1.72	137.5	1.37	3.14	0.08	0.03	0.86	0.022	0.05	21.5	11.3	0.27	318	7.35
ZZ41083		0.63	12.0	0.83	2.76	<0.05	<0.02	0.01	<0.005	0.02	4.1	3.8	0.06	82	0.75
ZZ41084		0.78	43.5	1.53	2.55	<0.05	<0.02	0.04	0.014	0.04	8.4	7.7	0.16	249	1.93
ZZ41085		1.13	26.1	2.59	3.34	<0.05	<0.02	0.08	0.022	0.05	13.3	11.2	0.25	381	3.99
ZZ41086		1.21	94.2	2.33	3.98	0.06	0.03	0.20	0.032	0.05	18.5	20.1	0.43	701	1.75
ZZ41087		1.07	97.5	3.40	4.05	0.06	0.08	0.09	0.056	0.08	29.4	22.4	0.71	548	4.68
ZZ41088		0.64	26.3	1.65	2.61	<0.05	0.03	0.08	0.020	0.05	10.7	11.3	0.31	444	1.98
ZZ41089		3.50	86.2	3.49	4.21	0.09	0.03	0.19	0.043	0.14	18.0	16.8	0.79	1040	33.9
ZZ41090		0.92	27.7	2.68	4.14	<0.05	0.02	0.05	0.027	0.06	15.3	18.0	0.35	251	3.51
ZZ41091		1.60	13.1	0.91	2.56	<0.05	<0.02	0.04	0.011	0.04	5.6	4.6	0.09	357	0.69
ZZ41092		1.13	31.2	2.80	3.68	<0.05	<0.02	0.08	0.028	0.05	17.7	14.8	0.36	351	2.45
ZZ41093		1.09	36.4	3.08	3.78	0.07	0.06	0.07	0.035	0.07	23.1	16.1	0.42	557	1.59
ZZ41094		1.26	35.5	2.16	3.50	0.05	0.02	0.17	0.022	0.05	11.0	11.8	0.41	330	5.58
ZZ41095		1.46	42.5	2.18	4.33	<0.05	0.02	0.11	0.029	0.06	17.9	27.4	0.48	171	2.59
ZZ41096		0.97	18.3	2.06	4.67	<0.05	<0.02	0.04	0.015	0.04	10.6	10.7	0.19	135	2.04
ZZ41097		1.10	16.2	2.15	4.50	<0.05	<0.02	0.02	0.019	0.04	11.4	12.9	0.27	156	1.50
ZZ41098		1.37	62.4	3.00	3.83	0.06	0.04	0.09	0.033	0.08	19.1	20.2	0.52	405	5.94
ZZ41099		1.80	19.0	3.22	5.24	<0.05	0.06	0.05	0.033	0.06	12.6	22.8	0.40	310	1.97
ZZ41100		1.77	20.8	1.31	4.12	<0.05	<0.02	0.08	0.018	0.05	12.9	14.4	0.30	84	0.62
ZZ41101		2.31	43.5	2.20	4.11	0.05	0.03	0.05	0.025	0.06	17.7	23.0	0.57	275	2.12
ZZ41102		3.02	23.6	1.90	3.46	<0.05	0.02	0.09	0.026	0.06	14.0	14.3	0.25	479	1.46
ZZ41103		2.51	33.4	2.02	4.86	<0.05	<0.02	0.04	0.021	0.05	12.7	11.5	0.21	1340	2.55
ZZ41104		1.22	28.6	1.94	3.91	<0.05	0.02	0.05	0.023	0.04	14.9	14.1	0.34	260	1.56
ZZ41105		3.21	16.6	3.06	5.48	0.05	0.04	0.03	0.036	0.06	16.4	31.4	0.49	308	1.95
ZZ41106		1.30	21.7	2.34	4.98	<0.05	0.02	0.02	0.023	0.05	13.1	15.4	0.35	225	1.51
ZZ41107		1.27	32.6	3.66	3.95	0.05	0.07	0.15	0.025	0.09	17.2	12.9	0.43	7940	5.39
ZZ41108		1.44	37.4	2.49	3.85	0.05	0.03	0.10	0.039	0.08	22.5	14.9	0.48	146	2.92
ZZ41109		1.39	45.4	2.25	4.77	0.06	0.03	0.08	0.028	0.07	19.1	11.0	0.35	392	2.02
ZZ41110		1.96	58.1	2.85	5.21	0.07	0.02	0.05	0.064	0.08	22.0	14.6	0.44	400	1.96
ZZ41111		1.61	43.5	2.59	4.27	0.05	0.02	0.07	0.045	0.08	16.2	13.9	0.41	402	2.95
ZZ41112		1.71	106.0	2.57	3.85	0.06	0.02	0.07	0.090	0.06	16.6	11.3	0.37	295	3.44
ZZ41113		2.18	102.5	2.19	4.62	<0.05	<0.02	0.08	0.111	0.07	11.7	9.7	0.31	166	2.81
ZZ41114		3.45	151.0	2.73	5.69	0.05	<0.02	0.07	0.155	0.09	14.4	15.0	0.50	357	3.30
ZZ41115		4.85	150.0	2.73	6.52	0.05	<0.02	0.14	0.222	0.09	16.6	17.5	0.56	379	4.60
ZZ41116		4.75	253	2.46	6.31	0.06	0.02	0.10	0.135	0.08	14.3	15.0	0.49	401	3.69
ZZ41117		4.58	252	2.33	5.32	0.05	<0.02	0.12	0.094	0.04	17.1	11.0	0.22	256	3.46
ZZ41118		2.66	128.5	2.43	5.67	0.06	<0.02	0.07	0.117	0.06	14.6	13.3	0.43	298	3.15
ZZ41119		1.54	28.6	1.54	5.54	<0.05	<0.02	0.08	0.033	0.03	8.6	9.2	0.19	87	1.38
ZZ41120		2.06	33.7	2.68	4.75	0.05	0.02	0.09	0.101	0.07	14.8	13.7	0.35	322	3.37



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		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
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
ZZ41081		0.55	9.3	540	12.5	5.7	<0.001	0.02	1.56	1.4	0.5	0.4	13.6	<0.01	<0.01
ZZ41082		0.77	59.1	1310	29.4	9.1	0.005	0.08	6.41	1.9	5.8	0.3	54.6	<0.01	0.05
ZZ41083		0.35	3.9	230	4.0	2.8	<0.001	0.01	0.32	0.4	<0.2	0.3	8.1	<0.01	<0.01
ZZ41084		0.36	11.4	480	17.5	4.1	0.001	0.02	2.61	1.8	0.4	0.3	22.4	<0.01	<0.01
ZZ41085		0.37	13.0	680	24.9	6.2	<0.001	0.02	4.17	2.7	0.6	0.4	14.9	<0.01	0.04
ZZ41086		0.88	25.6	790	32.6	7.6	0.002	0.04	2.04	6.2	2.9	0.5	35.5	<0.01	0.02
ZZ41087		0.23	33.4	1070	46.7	5.1	0.002	0.04	5.96	5.3	2.2	0.3	30.3	<0.01	0.09
ZZ41088		0.40	13.6	760	25.2	5.7	0.001	0.05	2.34	2.6	1.3	0.3	51.4	<0.01	<0.01
ZZ41089		0.56	85.9	1740	63.3	14.4	0.010	0.12	63.2	2.3	6.4	1.1	58.3	<0.01	0.08
ZZ41090		0.53	18.6	670	16.2	8.1	0.001	0.01	3.11	2.4	0.5	0.5	16.8	<0.01	0.02
ZZ41091		0.18	4.5	430	7.1	5.6	<0.001	0.02	0.27	0.5	<0.2	0.3	9.2	<0.01	<0.01
ZZ41092		0.72	22.2	760	16.0	6.6	0.001	0.01	2.83	3.3	1.5	0.5	19.8	<0.01	0.02
ZZ41093		0.69	29.3	920	16.7	8.6	<0.001	0.01	1.88	6.4	1.1	0.5	28.6	<0.01	<0.01
ZZ41094		0.25	21.1	1070	22.2	5.3	0.011	0.03	6.75	1.5	2.8	0.5	22.8	<0.01	<0.01
ZZ41095		0.55	18.4	990	17.7	9.4	0.001	0.02	1.61	3.1	1.2	0.5	19.3	<0.01	0.03
ZZ41096		0.94	8.7	410	14.2	8.3	<0.001	0.02	1.19	1.4	0.6	0.6	7.4	<0.01	0.01
ZZ41097		1.01	11.8	400	10.9	7.3	<0.001	0.01	1.06	1.9	0.6	0.6	11.7	<0.01	<0.01
ZZ41098		0.60	36.4	890	19.5	8.2	0.003	0.02	6.46	4.0	1.9	0.5	25.6	<0.01	0.03
ZZ41099		1.67	16.2	570	15.8	12.2	0.001	0.02	1.68	2.7	0.5	0.6	11.8	0.01	0.01
ZZ41100		0.68	9.2	660	11.7	7.8	0.001	0.03	0.68	1.4	0.6	0.7	15.0	<0.01	<0.01
ZZ41101		0.87	23.7	940	20.0	8.9	0.001	0.02	3.02	3.3	0.9	0.7	26.2	<0.01	0.02
ZZ41102		0.47	10.9	740	38.4	10.6	<0.001	0.03	3.40	1.9	0.8	0.5	19.6	<0.01	0.01
ZZ41103		0.44	10.6	1020	17.1	13.4	<0.001	0.04	1.18	1.3	0.6	0.6	34.8	<0.01	0.01
ZZ41104		0.59	15.7	900	19.9	6.7	<0.001	0.03	1.22	1.9	0.6	0.5	27.3	<0.01	<0.01
ZZ41105		0.88	17.8	410	26.1	15.3	<0.001	0.01	1.82	2.7	0.4	0.7	11.9	<0.01	0.02
ZZ41106		1.07	15.3	440	13.6	9.0	<0.001	<0.01	0.93	2.5	0.7	0.6	15.3	<0.01	0.03
ZZ41107		0.51	57.3	850	15.3	9.3	0.002	0.06	3.51	3.8	1.0	0.6	33.8	<0.01	0.03
ZZ41108		0.68	20.9	740	19.8	9.0	0.002	0.01	3.78	3.8	0.9	1.1	22.3	<0.01	0.05
ZZ41109		0.88	36.6	1050	27.5	7.9	<0.001	0.02	3.29	3.6	1.0	1.0	34.0	<0.01	0.12
ZZ41110		0.93	30.2	1040	42.4	11.7	0.001	0.03	2.53	3.7	0.6	2.4	25.2	<0.01	0.08
ZZ41111		0.71	28.5	990	34.1	9.7	<0.001	0.04	3.52	3.2	0.9	1.3	26.0	<0.01	0.08
ZZ41112		0.66	23.3	1190	46.9	8.5	0.001	0.04	8.43	2.4	1.3	2.3	34.1	<0.01	0.14
ZZ41113		0.55	18.9	960	55.1	10.1	<0.001	0.07	6.33	1.3	0.8	2.9	27.1	<0.01	0.18
ZZ41114		0.64	23.0	1200	61.8	14.8	0.001	0.07	6.09	1.9	1.5	3.4	26.3	<0.01	0.26
ZZ41115		0.70	22.9	1240	77.6	20.4	<0.001	0.06	5.37	2.7	1.8	3.0	28.4	<0.01	0.45
ZZ41116		0.63	21.0	1260	67.8	15.2	<0.001	0.08	4.56	2.1	2.0	3.1	32.8	<0.01	0.42
ZZ41117		0.88	11.0	790	29.8	9.3	<0.001	0.06	2.46	1.7	1.9	2.4	14.8	0.01	0.25
ZZ41118		0.47	21.5	1250	58.5	12.5	0.001	0.06	6.32	1.5	1.1	2.8	24.1	<0.01	0.11
ZZ41119		0.45	10.0	720	23.2	7.1	<0.001	0.05	1.62	0.5	0.8	0.9	18.9	<0.01	0.02
ZZ41120		0.69	32.3	770	122.0	10.6	<0.001	0.03	11.90	2.3	1.6	1.7	23.1	<0.01	0.08



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Sample Description	Method Analyte Units LOR	ME-MS41 Ti %	ME-MS41 Ti ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ41081		0.016	0.09	0.54	32	0.12	2.67	70	<0.5
ZZ41082		0.013	0.51	9.06	179	0.14	25.4	496	1.1
ZZ41083		0.021	0.04	0.22	31	0.09	0.84	24	<0.5
ZZ41084		0.021	0.11	0.77	28	0.11	4.50	71	<0.5
ZZ41085		0.011	0.14	0.74	43	0.12	5.19	101	<0.5
ZZ41086		0.025	0.16	2.75	44	0.30	20.5	201	1.0
ZZ41087		0.007	0.11	1.27	62	0.07	11.90	281	3.9
ZZ41088		0.014	0.08	0.89	34	0.08	5.81	124	1.2
ZZ41089		0.022	0.46	8.06	185	0.24	14.50	951	0.6
ZZ41090		0.011	0.11	0.68	62	0.14	5.37	132	0.7
ZZ41091		0.014	0.05	0.57	22	0.07	3.56	33	<0.5
ZZ41092		0.025	0.13	1.07	46	0.23	9.21	119	0.5
ZZ41093		0.018	0.16	0.99	39	0.14	15.90	103	2.0
ZZ41094		0.046	0.12	1.59	77	0.06	6.65	293	0.5
ZZ41095		0.014	0.17	1.95	48	0.21	8.68	169	0.7
ZZ41096		0.021	0.11	0.85	52	0.25	3.79	55	<0.5
ZZ41097		0.028	0.13	0.59	46	0.43	3.34	56	<0.5
ZZ41098		0.017	0.20	1.65	62	0.15	10.95	189	1.4
ZZ41099		0.038	0.14	0.73	60	0.38	3.33	101	2.2
ZZ41100		0.021	0.14	1.13	30	0.37	4.66	114	<0.5
ZZ41101		0.040	0.15	1.51	43	0.59	9.52	239	0.8
ZZ41102		0.014	0.14	2.36	30	0.20	8.60	544	<0.5
ZZ41103		0.015	0.12	3.02	44	0.44	6.74	71	<0.5
ZZ41104		0.019	0.10	1.92	36	0.19	7.32	72	<0.5
ZZ41105		0.014	0.13	0.63	45	0.19	4.00	135	1.8
ZZ41106		0.031	0.12	0.69	47	0.33	4.52	60	0.5
ZZ41107		0.014	0.20	1.73	58	0.32	13.90	205	2.2
ZZ41108		0.022	0.18	1.22	50	0.31	9.20	146	1.5
ZZ41109		0.037	0.16	2.17	60	0.35	13.25	184	0.9
ZZ41110		0.036	0.19	1.68	69	0.60	14.05	223	0.7
ZZ41111		0.029	0.18	1.31	65	0.93	9.51	185	0.9
ZZ41112		0.035	0.20	1.53	62	1.48	7.97	217	0.6
ZZ41113		0.025	0.27	1.92	63	0.55	6.31	132	<0.5
ZZ41114		0.036	0.28	2.49	84	1.26	8.26	177	<0.5
ZZ41115		0.029	0.39	2.49	86	0.51	7.40	197	<0.5
ZZ41116		0.034	0.28	3.64	78	0.75	7.35	182	<0.5
ZZ41117		0.031	0.23	5.41	47	0.64	5.81	70	<0.5
ZZ41118		0.029	0.26	2.90	68	0.60	6.59	137	<0.5
ZZ41119		0.021	0.18	0.94	47	0.28	2.95	62	<0.5
ZZ41120		0.025	0.20	1.45	75	0.30	7.41	170	<0.5



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ41121		0.32	0.010	2.93	2.25	64.2	<0.2	<10	350	1.06	7.97	0.45	5.50	34.2	8.0	39
ZZ41122		0.22	0.003	0.47	1.57	41.2	<0.2	<10	180	0.56	0.40	0.10	1.82	26.5	5.8	26
ZZ41123		0.22	0.004	0.85	1.49	49.0	<0.2	<10	290	0.62	0.36	0.25	1.44	28.2	5.5	24
ZZ41124		0.31	0.008	0.38	1.79	118.5	<0.2	<10	270	0.87	0.49	0.11	0.58	35.3	8.8	31
ZZ41125		0.23	0.005	0.20	1.47	84.7	<0.2	<10	230	0.58	0.41	0.18	0.53	24.1	6.1	25
ZZ41126		0.25	0.013	1.20	1.35	85.6	<0.2	<10	100	0.53	3.58	0.25	1.10	31.7	4.8	18
ZZ41127		0.22	0.004	2.14	1.45	224	<0.2	<10	180	0.63	4.85	0.18	1.41	31.8	5.2	21
ZZ41128		0.28	0.005	1.97	1.36	264	<0.2	<10	230	0.55	3.69	0.15	1.41	31.9	4.5	21
ZZ41129		0.24	0.007	2.23	1.78	188.5	<0.2	<10	280	0.90	2.18	0.23	1.32	40.8	6.5	25
ZZ41130		0.15	0.004	1.04	1.29	64.1	<0.2	<10	200	0.52	1.20	0.41	1.58	24.3	5.4	18
ZZ41131		0.29	0.006	1.09	2.26	258	<0.2	<10	360	0.99	4.13	0.33	2.92	31.4	10.0	32
ZZ41132		0.30	0.007	0.64	1.11	99.4	<0.2	<10	220	0.56	0.75	0.31	1.57	37.2	8.0	21
ZZ41133		0.31	0.004	0.53	1.77	56.7	<0.2	<10	230	0.86	0.38	0.24	0.70	25.8	6.6	26
ZZ41134		0.24	0.005	0.49	1.51	77.6	<0.2	<10	240	0.79	0.37	0.24	2.29	26.4	7.3	22
ZZ41135		0.14	0.002	0.88	1.27	40.4	<0.2	<10	160	0.53	0.31	0.17	2.40	21.7	10.7	22
ZZ41136		0.20	0.004	0.31	1.57	122.5	<0.2	<10	270	0.66	0.45	0.30	0.44	24.4	6.0	24
ZZ41137		0.15	0.008	1.31	1.79	653	<0.2	<10	250	0.72	1.06	0.46	0.75	25.8	7.9	27
ZZ41138		0.30	0.001	0.42	1.53	200	<0.2	<10	190	0.53	0.59	0.17	0.39	20.0	4.8	19



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Sample Description	Method Analyte Units LOR	ME-MS41 Cs ppm 0.05	ME-MS41 Cu ppm 0.2	ME-MS41 Fe % 0.01	ME-MS41 Ga ppm 0.05	ME-MS41 Ge ppm 0.05	ME-MS41 Hf ppm 0.02	ME-MS41 Hg ppm 0.01	ME-MS41 In ppm 0.005	ME-MS41 K % 0.01	ME-MS41 La ppm 0.2	ME-MS41 Li ppm 0.1	ME-MS41 Mg % 0.01	ME-MS41 Mn ppm 5	ME-MS41 Mo ppm 0.05	ME-MS41 Na % 0.01
ZZ41121		5.40	69.1	3.64	8.04	0.06	0.03	0.13	0.682	0.07	17.6	21.1	0.76	870	2.25	<0.01
ZZ41122		2.19	31.1	2.63	6.38	<0.05	<0.02	0.06	0.028	0.06	13.2	15.2	0.35	232	3.50	<0.01
ZZ41123		2.17	67.4	2.42	5.71	0.05	<0.02	0.11	0.041	0.07	14.0	15.5	0.35	200	8.43	<0.01
ZZ41124		2.09	38.3	2.85	5.07	0.06	0.05	0.10	0.042	0.10	18.2	14.4	0.51	325	6.02	<0.01
ZZ41125		2.67	15.9	2.47	6.20	<0.05	<0.02	0.06	0.025	0.10	12.2	16.4	0.50	250	3.15	<0.01
ZZ41126		3.00	248	2.18	5.01	0.06	<0.02	0.10	0.127	0.05	16.7	11.4	0.29	165	3.20	<0.01
ZZ41127		2.57	124.0	2.17	4.72	0.05	<0.02	0.11	0.156	0.06	17.1	9.4	0.31	204	2.60	<0.01
ZZ41128		2.66	66.4	2.15	5.50	<0.05	<0.02	0.09	0.195	0.06	16.3	9.5	0.34	151	3.28	<0.01
ZZ41129		2.43	98.0	2.88	5.17	0.06	0.03	0.14	0.196	0.09	19.3	14.8	0.45	289	5.46	<0.01
ZZ41130		2.55	74.2	1.95	4.48	<0.05	<0.02	0.07	0.072	0.06	12.1	9.9	0.26	215	3.18	0.01
ZZ41131		6.26	124.0	3.18	6.81	0.05	0.04	0.08	0.176	0.12	15.8	21.3	0.58	626	4.84	<0.01
ZZ41132		1.68	40.4	2.58	4.17	0.06	<0.02	0.05	0.062	0.10	18.8	13.2	0.40	392	8.33	<0.01
ZZ41133		2.28	41.8	2.41	5.44	<0.05	0.02	0.07	0.037	0.07	13.3	16.3	0.39	308	5.18	<0.01
ZZ41134		2.81	76.8	2.45	4.84	0.05	0.03	0.06	0.048	0.07	14.6	17.3	0.42	207	6.14	<0.01
ZZ41135		2.59	83.4	1.91	5.12	<0.05	<0.02	0.08	0.032	0.07	10.8	11.4	0.31	487	6.50	0.01
ZZ41136		2.62	25.7	2.51	6.00	<0.05	<0.02	0.06	0.041	0.08	12.2	18.3	0.46	197	3.75	<0.01
ZZ41137		6.11	29.1	2.29	6.57	0.05	0.02	0.06	0.057	0.09	12.6	20.0	1.09	338	2.36	<0.01
ZZ41138		2.21	21.6	2.24	6.04	<0.05	<0.02	0.05	0.048	0.08	10.6	15.6	0.35	146	2.59	<0.01



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Sample Description	Method Analyte Units LOR	ME-MS41 Nb ppm 0.05	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2
ZZ41121		1.17	40.8	960	132.5	12.7	<0.001	0.07	10.90	3.5	2.4	13.2	29.2	<0.01	0.32	2.1
ZZ41122		0.79	28.2	820	19.7	12.7	<0.001	0.04	2.35	1.4	1.5	0.9	15.1	<0.01	0.06	0.5
ZZ41123		0.55	30.8	1040	57.6	13.2	0.001	0.06	9.07	1.3	2.6	1.4	32.4	<0.01	0.05	0.4
ZZ41124		0.66	43.7	800	62.3	13.4	0.001	0.05	11.10	3.2	1.4	1.5	26.9	<0.01	0.05	3.8
ZZ41125		0.49	25.8	730	25.9	27.0	<0.001	0.04	3.26	1.0	0.6	1.0	21.4	<0.01	0.03	0.3
ZZ41126		0.67	13.4	800	57.1	11.2	<0.001	0.05	3.68	1.7	1.4	2.3	20.4	<0.01	0.17	0.5
ZZ41127		0.61	17.9	1110	141.0	12.6	0.001	0.09	16.50	1.1	1.4	6.6	19.1	<0.01	0.08	0.4
ZZ41128		0.51	18.2	920	139.5	12.5	<0.001	0.08	11.65	1.0	1.5	7.0	21.3	<0.01	0.07	0.3
ZZ41129		0.65	33.2	1260	221	13.2	<0.001	0.06	26.7	2.8	1.9	5.2	24.8	<0.01	0.09	2.1
ZZ41130		0.51	21.5	820	58.7	11.6	<0.001	0.05	5.77	1.4	1.4	2.2	24.7	<0.01	0.05	0.4
ZZ41131		0.52	46.1	1400	110.0	31.7	0.001	0.06	10.10	2.7	1.8	7.8	28.0	<0.01	0.09	1.1
ZZ41132		0.49	34.9	1500	84.2	11.5	0.001	0.05	13.80	2.3	2.5	1.9	38.9	<0.01	0.11	2.6
ZZ41133		0.48	29.4	1180	44.6	13.8	0.001	0.06	6.44	1.0	1.6	1.3	30.5	<0.01	0.05	0.4
ZZ41134		0.57	75.2	1280	57.9	12.7	0.002	0.06	9.73	1.6	1.8	1.7	39.1	<0.01	0.04	1.1
ZZ41135		0.36	35.6	1180	36.1	13.5	0.001	0.07	5.24	0.8	2.1	1.5	24.4	<0.01	0.03	0.2
ZZ41136		0.67	31.7	810	64.5	18.4	0.001	0.04	6.14	1.3	0.9	1.5	31.1	<0.01	0.04	0.5
ZZ41137		0.72	29.2	590	174.5	30.3	<0.001	0.03	3.75	2.5	0.7	3.7	29.0	<0.01	0.09	2.1
ZZ41138		0.78	21.4	510	68.5	20.3	<0.001	0.04	4.85	1.6	0.7	1.5	22.8	<0.01	0.05	0.8



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Sample Description	Method Analyte Units LOR	ME-MS41 Ti %	ME-MS41 Ti ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ41121		0.041	0.47	2.59	108	0.55	14.70	1230	0.8
ZZ41122		0.028	0.23	1.74	73	0.30	4.43	472	<0.5
ZZ41123		0.020	0.25	1.97	79	0.28	6.66	205	<0.5
ZZ41124		0.021	0.32	1.95	93	0.29	7.59	186	1.5
ZZ41125		0.025	0.24	0.91	70	0.25	3.94	141	<0.5
ZZ41126		0.033	0.20	3.69	51	0.69	6.88	119	<0.5
ZZ41127		0.023	0.26	2.77	56	0.29	6.62	130	<0.5
ZZ41128		0.020	0.33	2.16	68	0.38	7.31	152	<0.5
ZZ41129		0.018	0.35	2.86	99	0.30	11.00	235	0.8
ZZ41130		0.019	0.21	2.07	60	0.24	6.90	216	<0.5
ZZ41131		0.014	0.49	2.74	101	0.28	8.78	409	0.9
ZZ41132		0.025	0.30	2.24	119	0.39	8.44	290	<0.5
ZZ41133		0.018	0.28	2.73	89	0.27	6.61	205	0.5
ZZ41134		0.021	0.23	3.56	67	0.18	7.58	608	0.9
ZZ41135		0.019	0.23	3.02	56	0.18	5.16	333	<0.5
ZZ41136		0.023	0.23	1.32	72	0.23	4.75	158	<0.5
ZZ41137		0.029	0.53	1.57	60	2.08	6.71	192	0.5
ZZ41138		0.025	0.18	0.93	62	0.28	3.22	132	<0.5



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Method	CERTIFICATE COMMENTS
ALL METHODS ME-MS41	NSS is non-sufficient sample. Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).