



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: 11-SEP-2012  
Account: RANSIL

**CERTIFICATE WH12195452**

Project: KEG-Northwest

P.O. No.:

This report is for 210 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	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 WH12195452**

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
ZZ40293		0.30	0.004	0.39	1.32	38.9	<0.2	<10	380	0.49	0.40	0.54	0.49	26.2	5.7	24
ZZ40294		0.25	0.002	0.26	1.16	77.8	<0.2	<10	330	0.48	0.46	0.58	1.18	24.4	8.4	23
ZZ40295		0.30	0.002	0.50	1.24	55.5	<0.2	<10	340	0.69	0.45	0.42	0.80	29.3	6.4	22
ZZ40296		0.24	0.005	0.72	1.54	37.0	<0.2	<10	410	0.71	0.37	0.57	1.38	30.4	5.6	32
ZZ40297		0.36	0.007	1.03	1.78	52.5	<0.2	<10	490	0.82	0.47	0.71	3.93	23.1	7.4	33
ZZ40298		0.31	0.002	0.35	1.40	45.8	<0.2	<10	380	0.58	0.32	0.55	0.80	27.4	7.7	27
ZZ40299		0.27	0.001	0.53	1.24	22.2	<0.2	<10	190	0.57	0.34	0.32	0.72	19.20	5.1	20
ZZ40300		0.26	0.002	0.53	1.87	28.9	<0.2	<10	140	0.44	0.37	0.09	0.29	20.0	3.4	33
ZZ40301		0.20	0.001	0.23	1.29	42.4	<0.2	<10	180	0.44	0.45	0.25	0.50	19.70	5.2	24
ZZ40302		0.22	0.001	0.56	1.25	30.3	<0.2	<10	310	0.46	0.33	0.61	0.65	19.35	7.3	25
ZZ40303		0.12	0.001	0.41	0.66	12.7	<0.2	<10	280	0.44	0.11	0.28	0.75	11.15	5.8	9
ZZ40304		0.10	0.003	0.41	1.17	44.9	<0.2	<10	280	0.45	0.42	0.46	0.84	19.00	10.3	21
ZZ40305		0.22	0.004	0.57	1.37	119.0	<0.2	<10	360	0.64	0.81	0.52	1.33	25.3	7.4	26
ZZ40306		0.20	0.002	0.57	1.27	103.5	<0.2	<10	410	0.64	0.85	0.71	1.79	24.6	7.1	25
ZZ40307		0.18	0.005	0.73	1.40	131.5	<0.2	<10	440	0.82	1.13	0.71	3.85	26.1	7.2	25
ZZ40308		0.34	0.003	0.77	1.46	65.5	<0.2	<10	320	0.77	0.34	0.52	1.65	21.5	6.7	25
ZZ40309		0.36	<0.001	0.93	1.48	29.3	<0.2	<10	230	0.81	0.24	0.60	1.99	20.3	8.0	23
ZZ40310		0.33	0.002	1.20	2.04	55.6	<0.2	<10	540	1.15	0.41	0.74	1.82	29.3	10.4	38
ZZ40311		0.20	0.004	0.59	0.97	33.8	<0.2	<10	320	0.46	0.28	0.75	0.94	15.55	8.8	16
ZZ40312		0.24	0.002	0.30	2.14	60.0	<0.2	<10	220	0.57	0.40	0.16	0.48	17.70	5.2	43
ZZ40313		0.36	0.007	0.48	1.84	102.5	<0.2	<10	460	0.77	1.12	0.86	1.63	20.7	4.8	32
ZZ40314		0.34	0.002	0.37	1.37	176.5	<0.2	<10	280	0.74	0.91	0.76	0.96	17.00	5.6	26
ZZ40315		0.24	0.003	0.99	1.71	81.9	<0.2	<10	350	0.68	0.58	0.52	1.27	13.80	4.0	21
ZZ40316		0.32	0.003	0.37	1.88	128.0	<0.2	<10	350	1.15	1.03	1.14	1.33	22.5	6.5	36
ZZ40317		0.24	0.002	0.79	1.76	228	<0.2	<10	320	0.84	0.85	0.73	1.49	19.55	7.4	28
ZZ40318		0.26	0.006	0.46	1.92	156.0	<0.2	<10	150	0.49	4.29	0.26	0.87	16.35	2.5	44
ZZ40319		0.20	0.003	0.60	1.89	35.0	<0.2	<10	270	1.34	0.35	1.27	1.62	23.2	5.9	36
ZZ40320		0.25	0.005	0.37	1.53	16.3	<0.2	<10	250	1.33	0.35	1.03	1.83	22.3	5.0	34
ZZ40321		0.27	0.008	1.06	3.06	17.5	<0.2	<10	320	2.21	0.55	1.76	2.60	24.7	13.2	41
ZZ40322		0.18	<0.001	0.46	1.39	25.9	<0.2	<10	210	0.67	0.43	0.58	1.78	17.65	4.3	18
ZZ40323		0.34	0.003	0.77	1.69	17.6	<0.2	<10	260	0.70	0.73	0.50	1.01	19.15	5.4	27
ZZ40324		0.40	0.005	0.50	1.48	19.9	<0.2	<10	290	0.74	0.82	0.62	2.54	23.3	5.8	29
ZZ40325		0.39	0.001	0.21	0.96	16.6	<0.2	<10	270	0.41	0.48	0.56	0.99	20.1	6.5	22
ZZ40326		0.28	<0.001	0.54	1.17	14.1	<0.2	<10	350	0.69	0.40	0.97	1.17	23.5	5.0	25
ZZ40327		0.37	0.002	0.26	1.00	12.7	<0.2	<10	310	0.46	0.53	0.44	0.38	25.0	4.5	19
ZZ40328		0.21	0.001	0.33	1.10	8.2	<0.2	<10	230	0.43	0.21	0.45	0.47	16.10	5.3	19
ZZ40329		0.11	0.002	0.61	1.65	14.2	<0.2	<10	280	0.54	0.28	0.44	1.65	19.40	3.4	19
ZZ40330		0.24	0.002	0.19	1.07	7.3	<0.2	<10	250	0.38	0.21	0.25	0.20	20.6	3.3	17
ZZ40331		0.23	<0.001	0.15	0.79	11.1	<0.2	<10	220	0.42	0.16	0.23	0.22	18.70	4.6	13
ZZ40332		0.23	0.001	0.10	0.69	12.2	<0.2	<10	200	0.24	0.16	0.33	0.25	16.85	3.6	13



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**CERTIFICATE OF ANALYSIS WH12195452**

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
ZZ40293		2.37	22.4	1.70	4.52	0.06	0.02	0.06	0.028	0.06	13.6	19.0	0.48	154	2.37
ZZ40294		2.01	23.8	2.49	3.78	0.08	0.05	0.05	0.029	0.06	12.7	19.1	0.55	367	6.28
ZZ40295		2.18	23.5	1.79	4.10	0.06	0.03	0.05	0.034	0.07	14.3	19.1	0.43	240	1.93
ZZ40296		2.65	59.6	2.16	4.87	0.07	0.06	0.20	0.032	0.07	16.6	20.0	0.57	209	2.35
ZZ40297		3.37	73.3	2.26	5.40	0.09	0.06	0.13	0.061	0.08	13.9	21.4	0.65	385	6.73
ZZ40298		2.38	20.1	1.89	4.86	0.07	0.04	0.05	0.026	0.06	13.4	22.0	0.62	332	2.28
ZZ40299		3.07	37.3	1.34	4.46	0.06	0.02	0.05	0.027	0.06	9.4	15.1	0.35	217	6.02
ZZ40300		2.18	19.1	2.07	9.28	0.06	0.04	0.06	0.022	0.04	9.6	14.5	0.32	160	4.85
ZZ40301		2.50	22.3	2.04	6.70	0.06	0.02	0.04	0.027	0.05	9.8	17.3	0.38	163	3.10
ZZ40302		2.13	24.1	1.64	4.27	0.06	0.04	0.08	0.023	0.06	10.1	20.6	0.54	233	3.25
ZZ40303		0.92	28.9	0.85	2.11	0.05	0.03	0.05	0.009	0.02	5.6	4.6	0.15	322	4.77
ZZ40304		2.35	22.8	1.66	4.25	0.06	0.02	0.06	0.027	0.05	9.9	15.7	0.37	214	8.80
ZZ40305		2.94	46.1	2.04	4.70	0.08	0.04	0.06	0.049	0.06	13.4	21.6	0.46	228	7.15
ZZ40306		2.34	35.3	1.80	4.21	0.08	0.06	0.07	0.050	0.05	12.7	20.6	0.48	167	2.95
ZZ40307		2.50	65.6	2.12	4.04	0.09	0.07	0.08	0.064	0.06	14.5	21.6	0.52	249	6.44
ZZ40308		2.18	34.9	1.90	3.89	0.08	0.05	0.07	0.030	0.08	10.7	18.8	0.54	262	3.47
ZZ40309		1.93	28.9	1.42	4.37	0.06	0.02	0.07	0.023	0.06	10.3	19.4	0.47	503	3.28
ZZ40310		2.95	62.5	2.20	6.07	0.09	0.06	0.15	0.033	0.07	17.6	29.3	0.74	510	5.83
ZZ40311		1.44	28.1	1.33	3.52	<0.05	0.02	0.06	0.016	0.04	7.9	11.0	0.25	934	6.59
ZZ40312		2.36	23.2	2.18	8.12	0.06	0.05	0.08	0.026	0.04	8.3	28.1	0.68	208	4.24
ZZ40313		3.35	48.6	1.48	5.92	0.07	0.06	0.05	0.064	0.06	12.1	27.5	0.53	155	3.21
ZZ40314		2.36	60.5	1.62	4.82	0.07	0.04	0.02	0.041	0.05	9.7	22.4	0.44	120	5.17
ZZ40315		2.69	51.8	1.45	5.57	<0.05	0.03	0.06	0.034	0.04	8.1	16.6	0.32	134	2.57
ZZ40316		2.80	88.6	2.25	6.20	0.10	0.04	0.02	0.052	0.07	13.2	23.5	0.58	186	6.26
ZZ40317		3.01	61.2	1.96	5.76	0.07	0.07	0.07	0.044	0.05	10.7	21.3	0.46	184	2.68
ZZ40318		4.43	35.7	2.93	9.92	0.08	0.02	0.08	0.083	0.06	9.1	18.5	0.35	121	3.56
ZZ40319		2.79	115.5	2.41	6.24	0.11	0.03	0.02	0.038	0.09	13.7	21.0	0.55	124	7.92
ZZ40320		2.42	121.0	2.08	5.25	0.10	0.06	0.03	0.037	0.08	13.3	22.1	0.51	124	6.30
ZZ40321		4.73	258	3.20	8.90	0.15	0.06	0.03	0.068	0.12	15.2	28.4	0.66	314	11.00
ZZ40322		2.54	48.6	1.23	4.26	0.05	0.03	0.05	0.023	0.04	10.5	15.8	0.28	180	1.49
ZZ40323		3.39	78.9	1.81	5.59	0.06	0.04	0.05	0.032	0.04	10.9	19.0	0.41	150	12.65
ZZ40324		2.87	67.6	1.79	4.63	0.06	0.05	0.04	0.036	0.06	12.9	18.4	0.49	210	9.85
ZZ40325		2.83	17.0	1.27	4.15	0.05	0.02	0.04	0.019	0.04	8.9	12.7	0.35	401	2.59
ZZ40326		1.94	30.8	1.39	4.19	0.06	0.05	0.11	0.022	0.04	12.2	16.8	0.33	248	2.01
ZZ40327		1.57	16.2	1.34	3.00	0.05	0.05	0.04	0.018	0.03	13.3	12.3	0.37	118	0.67
ZZ40328		1.67	22.6	1.49	3.81	0.05	0.03	0.05	0.022	0.04	8.7	11.8	0.32	180	1.50
ZZ40329		2.40	48.3	1.63	5.24	0.05	0.03	0.11	0.028	0.05	11.3	13.7	0.32	82	1.04
ZZ40330		1.78	13.3	0.99	3.54	<0.05	0.02	0.03	0.019	0.04	10.9	12.6	0.32	79	0.66
ZZ40331		1.45	11.4	1.14	2.57	<0.05	0.03	0.02	0.014	0.03	9.3	10.4	0.23	175	0.81
ZZ40332		1.16	12.1	1.10	2.46	<0.05	0.03	0.04	0.015	0.03	8.9	10.2	0.24	143	0.90



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		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
ZZ40293		1.08	24.7	840	25.9	13.1	0.001	0.02	2.29	2.9	1.3	1.4	30.1	<0.01	0.04
ZZ40294		1.18	20.4	1190	33.2	10.1	0.004	0.04	3.75	2.9	2.9	1.9	37.4	<0.01	0.04
ZZ40295		1.21	25.0	860	31.8	11.6	0.001	0.02	2.07	3.1	1.0	1.9	28.4	<0.01	0.04
ZZ40296		1.26	27.2	780	22.5	16.6	0.002	0.04	3.69	4.7	2.6	1.5	27.4	<0.01	0.04
ZZ40297		0.73	42.8	1450	34.6	18.7	0.004	0.06	150.0	3.7	2.7	1.7	40.8	<0.01	0.06
ZZ40298		1.09	24.4	1020	18.2	13.4	0.001	0.03	2.81	3.1	1.2	1.0	33.2	<0.01	0.04
ZZ40299		0.50	22.9	1060	15.9	22.1	0.005	0.05	3.05	1.7	2.4	0.9	24.3	<0.01	0.03
ZZ40300		2.51	17.8	640	16.2	6.5	<0.001	0.04	2.26	2.9	1.8	1.8	10.0	0.03	0.07
ZZ40301		1.30	25.4	760	20.0	11.1	<0.001	0.04	3.04	2.3	1.2	1.2	25.4	<0.01	0.06
ZZ40302		0.78	26.2	1110	18.3	13.2	0.001	0.04	3.83	2.8	1.4	1.0	34.9	<0.01	0.04
ZZ40303		0.38	30.7	760	6.0	5.4	0.008	0.09	2.04	1.2	3.4	0.3	16.5	<0.01	0.02
ZZ40304		0.82	19.2	840	11.9	12.9	0.004	0.07	2.23	2.7	2.7	0.6	29.4	<0.01	0.04
ZZ40305		0.92	35.1	880	19.6	12.4	0.004	0.04	5.07	3.7	2.7	2.1	39.6	<0.01	0.07
ZZ40306		0.95	30.7	970	21.1	12.1	0.002	0.05	5.74	3.6	3.1	1.0	39.5	<0.01	0.06
ZZ40307		0.92	40.2	1160	21.0	12.3	0.003	0.07	5.74	4.0	5.0	1.0	40.7	<0.01	0.08
ZZ40308		0.80	42.1	1380	27.6	11.3	0.001	0.04	7.01	3.2	1.8	0.9	37.3	<0.01	0.06
ZZ40309		0.62	27.5	1060	16.8	11.1	0.001	0.05	2.71	2.2	1.5	0.7	28.9	<0.01	0.04
ZZ40310		1.00	42.6	1460	19.3	14.5	0.002	0.05	4.23	4.9	2.2	1.1	46.7	0.01	0.06
ZZ40311		0.56	17.8	820	9.9	8.6	0.002	0.05	2.23	1.7	1.4	0.7	35.2	<0.01	0.04
ZZ40312		1.81	26.3	880	20.9	8.6	0.001	0.05	3.73	3.2	2.0	1.5	19.2	0.01	0.07
ZZ40313		0.94	33.8	2350	12.7	12.2	0.003	0.05	2.12	3.0	1.5	1.4	73.2	<0.01	0.06
ZZ40314		0.99	33.0	2620	8.8	9.0	0.001	0.03	2.59	2.2	1.5	0.8	72.3	<0.01	0.07
ZZ40315		0.48	29.7	1990	8.1	9.9	0.003	0.07	1.22	1.1	1.5	0.6	52.7	<0.01	0.04
ZZ40316		1.19	44.0	4220	12.5	8.5	0.001	0.05	3.07	2.9	3.1	0.9	104.0	<0.01	0.08
ZZ40317		0.86	31.8	2070	13.2	11.9	0.002	0.05	2.33	2.6	2.1	0.8	57.3	<0.01	0.07
ZZ40318		1.53	19.5	5310	10.3	13.8	0.001	0.07	1.29	1.3	2.9	0.7	27.0	<0.01	0.14
ZZ40319		1.09	42.7	5490	12.5	10.3	0.002	0.06	3.39	3.0	3.6	0.6	130.5	<0.01	0.07
ZZ40320		0.80	45.8	4130	10.1	9.0	0.001	0.05	3.08	3.5	3.8	0.5	109.0	<0.01	0.06
ZZ40321		1.41	80.4	8080	14.1	15.1	0.002	0.07	3.55	3.1	5.2	0.6	195.0	<0.01	0.10
ZZ40322		0.45	24.9	1700	6.9	7.4	0.001	0.06	1.19	1.1	1.2	0.3	38.7	<0.01	0.04
ZZ40323		0.72	42.9	1610	9.0	8.4	0.001	0.04	1.88	2.5	2.7	0.5	44.2	<0.01	0.05
ZZ40324		0.70	40.1	1500	9.8	10.9	0.001	0.03	2.16	3.0	1.7	0.5	50.1	<0.01	0.05
ZZ40325		0.71	21.8	700	9.1	8.9	0.001	0.03	1.54	2.1	0.8	0.5	30.1	<0.01	0.04
ZZ40326		0.75	24.2	700	11.1	7.5	0.002	0.08	1.77	2.6	2.8	0.5	35.3	<0.01	0.04
ZZ40327		0.71	15.7	530	8.3	5.9	<0.001	0.01	1.32	2.8	0.6	0.5	21.4	<0.01	0.03
ZZ40328		0.65	16.7	690	7.5	8.4	0.001	0.04	0.95	2.1	1.1	0.4	25.2	<0.01	0.03
ZZ40329		0.73	26.7	810	11.4	7.1	0.002	0.05	0.93	2.5	1.6	0.5	24.7	<0.01	0.03
ZZ40330		0.75	15.1	400	9.4	6.4	<0.001	0.02	0.89	2.1	0.6	0.5	16.2	<0.01	0.02
ZZ40331		0.65	15.1	440	7.4	6.0	<0.001	0.02	1.02	1.8	0.7	0.3	14.9	<0.01	0.02
ZZ40332		0.66	15.8	540	6.9	4.9	<0.001	0.02	1.15	1.6	0.5	0.3	16.4	<0.01	0.03



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**CERTIFICATE OF ANALYSIS WH12195452**

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
ZZ40293		0.037	0.21	1.19	50	0.35	6.86	106	<0.5
ZZ40294		0.042	0.17	1.95	56	2.90	8.34	143	1.5
ZZ40295		0.042	0.21	1.13	51	0.60	8.80	96	0.8
ZZ40296		0.044	0.33	3.62	59	0.28	15.25	140	1.7
ZZ40297		0.030	0.25	3.00	70	0.47	15.15	220	1.5
ZZ40298		0.038	0.21	1.24	56	0.26	7.62	117	1.3
ZZ40299		0.027	0.20	1.59	47	0.24	6.93	129	<0.5
ZZ40300		0.083	0.21	0.97	119	0.33	5.02	109	1.4
ZZ40301		0.044	0.20	0.90	72	0.38	4.91	127	0.6
ZZ40302		0.031	0.23	1.21	59	0.24	7.16	153	1.3
ZZ40303		0.021	0.13	1.42	21	0.09	6.50	53	1.0
ZZ40304		0.031	0.22	1.62	52	0.41	5.46	99	0.7
ZZ40305		0.033	0.26	2.35	71	1.04	9.73	187	1.6
ZZ40306		0.030	0.22	2.39	63	1.09	9.92	199	2.0
ZZ40307		0.028	0.25	2.61	70	0.58	14.80	254	2.6
ZZ40308		0.031	0.21	1.53	58	0.52	10.20	199	1.5
ZZ40309		0.029	0.19	1.65	52	0.22	10.55	162	0.5
ZZ40310		0.038	0.31	3.49	85	0.37	19.50	175	1.5
ZZ40311		0.024	0.17	1.88	42	0.36	5.71	88	0.5
ZZ40312		0.053	0.23	1.29	110	0.38	5.59	94	1.7
ZZ40313		0.033	0.22	3.10	93	2.86	9.89	257	1.7
ZZ40314		0.033	0.17	2.35	91	3.65	8.11	214	1.7
ZZ40315		0.020	0.21	2.59	68	0.62	6.13	209	0.6
ZZ40316		0.046	0.23	4.06	169	2.72	11.95	278	1.7
ZZ40317		0.031	0.24	3.45	105	1.44	8.25	244	2.2
ZZ40318		0.040	0.16	1.64	156	12.25	4.89	177	0.7
ZZ40319		0.052	0.26	6.67	173	0.57	14.70	283	1.1
ZZ40320		0.042	0.24	7.21	149	0.44	16.30	296	4.0
ZZ40321		0.049	0.35	8.45	223	0.62	17.05	576	2.5
ZZ40322		0.022	0.17	3.32	62	0.31	11.45	212	0.6
ZZ40323		0.021	0.28	4.05	94	0.54	7.75	327	1.0
ZZ40324		0.022	0.21	2.67	94	0.48	10.50	338	1.5
ZZ40325		0.023	0.17	1.39	70	0.28	4.86	122	0.6
ZZ40326		0.025	0.16	4.65	85	0.41	11.80	95	1.6
ZZ40327		0.026	0.11	0.74	41	0.33	9.54	66	1.8
ZZ40328		0.026	0.12	1.23	41	0.22	5.15	78	0.8
ZZ40329		0.021	0.22	1.62	45	2.80	8.76	212	0.7
ZZ40330		0.022	0.14	0.89	33	0.32	5.24	60	0.6
ZZ40331		0.021	0.11	1.12	32	0.15	5.18	57	0.9
ZZ40332		0.020	0.09	0.62	33	0.19	4.32	58	0.8



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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
ZZ40333		0.15	0.007	0.49	1.15	11.8	<0.2	<10	580	0.68	0.22	0.89	0.62	21.0	5.0	22
ZZ40334		0.22	<0.001	0.27	1.07	15.8	<0.2	<10	430	0.47	0.21	0.95	0.75	17.90	5.3	17
ZZ40335		0.35	0.002	0.25	0.89	12.0	<0.2	<10	370	0.38	0.17	0.39	0.37	18.50	4.3	16
ZZ40336		0.25	0.003	0.55	1.38	20.7	<0.2	<10	480	0.65	0.25	1.06	0.65	24.5	8.9	22
ZZ40337		0.26	0.002	0.31	0.91	8.6	<0.2	<10	400	0.35	0.17	0.47	0.30	17.25	2.9	14
ZZ40338		0.29	0.001	0.28	0.80	10.8	<0.2	<10	370	0.45	0.21	0.46	0.32	26.3	4.2	16
ZZ40339		0.14	0.003	0.46	1.09	42.1	<0.2	<10	460	0.59	0.15	1.34	0.54	21.5	4.1	11
ZZ40340		0.22	0.003	0.45	1.28	16.4	<0.2	<10	410	0.69	0.21	0.71	0.52	25.6	2.8	19
ZZ40341		0.25	0.002	0.20	0.69	16.0	<0.2	<10	310	0.20	0.15	0.43	0.18	18.15	4.1	15
ZZ40342		0.24	0.004	0.25	0.64	6.8	<0.2	<10	300	0.41	0.18	0.55	0.54	21.7	3.9	15
ZZ40343		0.20	<0.001	0.30	1.05	21.7	<0.2	<10	400	0.42	0.12	1.21	1.16	13.00	4.2	9
ZZ40344		0.32	<0.001	0.19	0.62	5.8	<0.2	<10	280	0.31	0.11	0.28	0.23	15.85	3.1	10
ZZ40345		0.26	<0.001	0.21	0.79	6.1	<0.2	<10	290	0.36	0.12	0.41	0.23	15.75	2.0	16
ZZ40346		0.34	0.001	0.67	1.09	11.6	<0.2	<10	380	0.90	0.20	0.58	0.45	37.4	4.2	17
ZZ40347		0.35	0.006	0.11	0.71	9.0	<0.2	<10	210	0.23	0.17	0.22	0.19	17.20	3.5	13
ZZ40348		0.18	0.002	0.40	0.97	6.2	<0.2	<10	240	0.38	0.12	0.71	0.37	11.95	2.2	7
ZZ40349		0.28	0.001	0.33	0.77	6.1	<0.2	<10	540	0.43	0.15	0.70	0.72	22.8	8.1	11
ZZ40350		0.19	0.002	0.26	0.67	3.5	<0.2	<10	500	0.40	0.12	0.70	0.81	20.6	2.3	10
ZZ40351		0.22	<0.001	0.33	0.82	6.1	<0.2	<10	290	0.24	0.14	0.32	0.25	19.45	2.6	13
ZZ40352		0.26	0.001	0.20	0.75	7.8	<0.2	<10	290	0.33	0.16	0.37	0.20	16.60	3.7	11
ZZ40353		0.27	0.002	0.45	1.03	15.8	<0.2	<10	300	0.44	0.25	0.78	0.33	19.75	5.6	14
ZZ40354		0.29	0.002	0.22	0.64	5.1	<0.2	<10	280	0.28	0.12	0.59	0.42	16.65	4.4	8
ZZ40355		0.14	<0.001	0.26	0.47	6.9	<0.2	<10	160	0.23	0.11	0.99	0.32	10.45	3.5	6
ZZ40356		0.34	<0.001	0.19	1.02	10.0	<0.2	<10	270	0.24	0.24	0.61	0.16	15.70	4.6	15
ZZ40357		0.16	<0.001	0.14	0.67	3.8	<0.2	<10	220	0.21	0.11	1.16	0.52	11.40	2.7	7
ZZ40358		0.26	0.001	0.15	1.00	8.0	<0.2	<10	270	0.43	0.20	0.50	0.53	19.30	3.2	13
ZZ40359		0.24	0.001	0.23	1.34	11.9	<0.2	<10	330	0.36	0.33	0.75	0.92	17.45	5.8	17
ZZ40360		0.21	0.002	0.15	1.09	10.4	<0.2	<10	220	0.44	0.45	0.67	0.75	16.30	3.7	14
ZZ40361		0.25	0.002	0.24	1.22	11.2	<0.2	<10	240	0.69	0.40	0.61	2.44	27.3	3.8	16
ZZ40362		0.23	0.001	0.08	1.21	10.6	<0.2	<10	290	0.38	0.72	0.27	0.43	17.90	4.0	12
ZZ40363		0.19	0.005	0.21	1.34	15.7	<0.2	<10	250	0.69	0.46	0.84	1.88	22.5	6.6	19
ZZ40364		0.28	0.002	0.44	1.58	9.7	<0.2	<10	320	1.26	0.40	1.14	2.96	35.3	6.0	16
ZZ40365		0.25	<0.001	0.16	1.37	18.6	<0.2	<10	250	0.86	0.70	0.60	0.54	23.5	6.8	21
ZZ40366		0.29	<0.001	0.06	0.87	4.2	<0.2	<10	170	0.22	0.39	0.24	0.12	13.90	1.9	12
ZZ40367		0.26	0.002	0.16	1.47	10.8	<0.2	<10	230	0.65	0.46	0.60	0.42	29.5	5.9	24
ZZ40368		0.26	0.001	0.17	1.60	7.9	<0.2	<10	220	0.53	0.37	0.33	0.34	23.0	4.0	13
ZZ40369		0.23	0.004	0.11	0.72	3.5	<0.2	<10	110	0.31	0.22	0.89	0.66	11.30	2.9	8
DD005641		0.14	0.005	0.09	1.16	6.1	<0.2	<10	160	0.41	0.33	0.43	1.22	18.25	4.2	11
DD005642		0.26	0.002	0.07	1.36	8.3	<0.2	<10	180	0.56	0.33	0.34	0.84	19.25	4.6	16
DD005643		0.17	0.002	0.18	1.29	10.6	<0.2	<10	220	0.56	0.47	0.49	4.94	17.70	6.1	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
ZZ40333		1.50	44.4	1.39	4.02	0.05	0.05	0.23	0.023	0.04	13.4	9.3	0.33	183	0.68
ZZ40334		1.49	26.9	1.63	3.37	0.05	0.04	0.08	0.021	0.04	10.4	8.5	0.28	306	0.89
ZZ40335		1.60	14.5	1.32	2.97	<0.05	0.03	0.03	0.017	0.04	10.4	10.3	0.31	179	0.66
ZZ40336		1.94	24.1	1.95	4.12	0.07	0.06	0.10	0.027	0.04	14.8	15.5	0.34	627	1.10
ZZ40337		1.64	16.6	1.12	2.90	0.05	0.05	0.07	0.021	0.03	9.8	8.1	0.24	119	0.43
ZZ40338		1.50	17.0	1.40	2.67	0.06	0.05	0.04	0.021	0.03	12.6	9.9	0.28	81	0.73
ZZ40339		0.99	30.5	1.80	2.84	0.06	0.05	0.10	0.017	0.03	12.4	6.4	0.13	298	0.83
ZZ40340		1.82	25.2	1.31	4.06	0.06	0.08	0.14	0.030	0.03	14.9	7.6	0.20	105	0.33
ZZ40341		1.11	8.9	1.16	2.21	<0.05	0.04	0.03	0.014	0.03	9.5	7.3	0.25	343	0.56
ZZ40342		1.08	18.6	1.00	2.11	0.05	0.06	0.05	0.016	0.04	11.5	7.0	0.22	62	0.67
ZZ40343		0.99	26.3	1.06	2.95	<0.05	0.05	0.06	0.013	0.04	7.1	9.0	0.13	102	0.23
ZZ40344		1.07	8.0	0.89	2.02	<0.05	0.03	0.03	0.010	0.02	8.1	7.0	0.17	182	0.63
ZZ40345		1.91	7.1	0.96	2.38	<0.05	0.04	0.02	0.016	0.02	9.3	8.3	0.22	102	0.45
ZZ40346		1.89	16.5	1.54	3.19	0.07	0.04	0.06	0.019	0.04	20.7	9.1	0.26	226	0.57
ZZ40347		1.42	5.9	1.08	2.93	<0.05	<0.02	0.02	0.011	0.03	8.9	6.0	0.19	177	0.86
ZZ40348		0.99	14.4	0.94	2.70	<0.05	0.04	0.08	0.013	0.03	6.0	4.3	0.10	70	0.24
ZZ40349		1.56	13.5	1.42	1.97	<0.05	0.05	0.03	0.015	0.03	13.1	6.9	0.30	748	1.01
ZZ40350		1.17	12.9	0.87	1.74	<0.05	0.04	0.03	0.013	0.03	11.8	5.7	0.23	200	0.42
ZZ40351		1.28	7.0	0.88	2.44	<0.05	0.03	0.04	0.013	0.03	10.9	8.2	0.25	165	0.25
ZZ40352		1.22	8.5	0.98	2.08	<0.05	0.03	0.05	0.014	0.03	9.4	6.0	0.21	217	0.53
ZZ40353		1.33	14.2	1.71	3.19	<0.05	0.04	0.07	0.022	0.04	12.2	7.0	0.24	234	0.47
ZZ40354		1.05	8.0	0.90	1.79	<0.05	0.04	0.04	0.011	0.02	8.0	4.5	0.16	520	0.49
ZZ40355		0.56	11.4	1.06	1.82	<0.05	0.04	0.04	0.009	0.02	5.2	2.5	0.09	282	0.53
ZZ40356		1.67	9.2	1.32	3.14	<0.05	0.04	0.03	0.017	0.03	8.5	8.6	0.27	237	0.64
ZZ40357		0.67	10.5	0.79	2.00	<0.05	0.05	0.04	0.009	0.02	5.9	4.1	0.12	313	0.39
ZZ40358		1.27	9.4	0.99	2.86	<0.05	0.03	0.01	0.017	0.03	10.7	9.6	0.22	95	0.34
ZZ40359		1.79	14.0	1.42	3.87	<0.05	0.04	0.04	0.022	0.04	9.1	13.5	0.28	363	0.67
ZZ40360		1.81	13.0	1.16	3.29	<0.05	0.04	0.03	0.017	0.03	8.5	11.7	0.21	176	0.77
ZZ40361		1.78	18.1	1.31	3.60	0.05	0.03	0.06	0.019	0.03	17.8	12.7	0.25	184	0.73
ZZ40362		1.79	8.6	1.12	3.14	<0.05	0.04	0.01	0.017	0.04	7.3	11.4	0.21	96	0.83
ZZ40363		2.07	24.5	1.74	4.33	<0.05	0.03	0.04	0.024	0.04	12.5	11.8	0.30	373	1.17
ZZ40364		2.17	39.9	1.46	4.17	0.07	0.04	0.06	0.025	0.04	24.7	12.1	0.24	404	1.05
ZZ40365		2.37	24.9	1.80	4.67	<0.05	0.02	0.03	0.024	0.04	15.6	17.6	0.36	290	2.79
ZZ40366		1.37	7.1	0.89	4.61	<0.05	<0.02	0.01	0.012	0.03	7.5	10.2	0.17	89	1.42
ZZ40367		2.30	15.8	1.91	4.45	<0.05	0.03	0.03	0.026	0.04	18.2	16.7	0.40	238	1.34
ZZ40368		2.25	10.8	1.35	3.92	<0.05	0.03	0.01	0.019	0.03	10.9	11.7	0.21	158	0.91
ZZ40369		1.38	11.4	0.84	2.36	<0.05	0.03	0.02	0.011	0.02	6.5	6.3	0.12	157	0.80
DD005641		2.11	14.2	1.17	3.68	<0.05	0.02	0.02	0.014	0.03	10.2	10.8	0.17	231	1.03
DD005642		2.76	10.8	1.56	4.38	<0.05	0.02	0.01	0.020	0.07	11.2	16.2	0.27	179	1.73
DD005643		3.38	25.2	1.60	4.27	<0.05	0.02	0.01	0.024	0.05	9.0	15.2	0.25	511	1.78





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**CERTIFICATE OF ANALYSIS WH12195452**

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
ZZ40333		0.64	15.6	1290	9.6	8.1	0.002	0.11	1.80	1.9	2.2	0.5	34.9	<0.01	0.03
ZZ40334		0.55	13.8	1070	9.2	9.4	<0.001	0.10	1.11	1.4	1.3	0.4	32.2	<0.01	0.04
ZZ40335		0.61	13.3	590	7.5	7.9	<0.001	0.03	0.87	1.9	0.6	0.4	20.8	<0.01	0.02
ZZ40336		0.74	17.7	1070	10.5	7.9	0.001	0.08	1.25	2.5	1.5	0.5	26.9	<0.01	0.04
ZZ40337		0.48	11.6	620	7.7	6.7	<0.001	0.04	0.93	2.0	1.1	0.4	21.1	<0.01	0.02
ZZ40338		0.76	13.8	430	10.9	5.7	0.001	0.02	1.33	2.7	1.3	0.5	21.2	<0.01	0.02
ZZ40339		0.55	12.5	1270	6.5	4.3	0.006	0.12	1.98	1.1	3.3	0.3	33.8	0.01	0.06
ZZ40340		0.53	12.2	1010	11.2	4.9	0.001	0.09	1.12	2.6	2.0	0.6	25.5	0.01	0.02
ZZ40341		0.63	11.2	600	8.1	4.4	0.001	0.02	0.79	1.9	0.4	0.4	21.5	<0.01	0.02
ZZ40342		0.68	16.6	510	9.6	5.8	0.001	0.03	1.44	2.2	0.9	0.4	22.5	<0.01	0.02
ZZ40343		0.49	15.9	870	5.4	6.4	0.001	0.10	1.03	1.3	1.9	0.3	46.5	<0.01	0.03
ZZ40344		0.42	10.3	500	6.2	4.6	<0.001	0.02	0.75	1.5	0.4	0.3	15.0	<0.01	0.02
ZZ40345		0.39	10.0	510	6.2	4.5	<0.001	0.02	0.66	1.9	0.4	0.3	19.0	<0.01	0.02
ZZ40346		0.46	13.9	960	10.1	9.9	0.001	0.05	0.97	2.3	1.2	0.4	19.8	<0.01	0.01
ZZ40347		0.51	7.5	390	7.6	6.0	<0.001	0.02	0.83	1.2	0.4	0.5	13.1	<0.01	0.04
ZZ40348		0.39	9.5	850	4.6	3.1	<0.001	0.09	0.61	0.9	1.0	0.2	22.7	<0.01	0.01
ZZ40349		0.41	18.4	690	9.1	4.3	<0.001	0.04	1.07	1.5	0.8	0.3	25.7	<0.01	0.02
ZZ40350		0.45	14.6	580	6.4	4.0	<0.001	0.04	0.94	1.5	0.8	0.3	27.6	<0.01	0.02
ZZ40351		0.54	8.9	530	7.9	5.7	<0.001	0.03	0.47	1.5	0.5	0.3	19.2	<0.01	0.02
ZZ40352		0.37	10.1	730	7.5	4.9	<0.001	0.04	0.67	1.3	0.4	0.3	19.6	<0.01	0.01
ZZ40353		0.49	11.2	710	9.5	6.6	<0.001	0.05	0.86	1.8	0.8	0.4	26.1	<0.01	0.02
ZZ40354		0.39	7.8	570	5.9	3.1	<0.001	0.04	0.51	1.0	0.5	0.2	18.2	<0.01	0.01
ZZ40355		0.37	6.4	850	4.7	2.1	<0.001	0.08	0.55	0.7	0.4	0.2	23.6	<0.01	0.02
ZZ40356		0.60	12.0	520	9.6	6.2	<0.001	0.04	0.59	1.7	0.4	0.4	24.7	<0.01	0.04
ZZ40357		0.39	8.9	710	4.6	3.4	<0.001	0.08	0.62	0.8	0.7	0.2	32.5	<0.01	0.03
ZZ40358		0.73	15.1	460	9.4	4.6	<0.001	0.02	0.70	1.5	0.2	0.4	27.3	<0.01	0.01
ZZ40359		0.70	20.2	470	12.8	7.1	0.001	0.04	0.68	1.9	0.7	0.4	31.5	<0.01	0.02
ZZ40360		0.54	16.1	480	9.1	5.9	<0.001	0.04	0.57	1.5	0.5	0.3	25.2	<0.01	0.02
ZZ40361		0.81	16.2	450	9.7	7.3	<0.001	0.04	0.64	1.9	1.5	0.4	32.6	<0.01	0.03
ZZ40362		0.70	20.3	320	9.2	4.9	<0.001	0.02	0.73	1.4	0.4	0.3	24.3	<0.01	0.03
ZZ40363		0.68	20.3	750	12.0	9.3	<0.001	0.06	0.68	1.9	1.0	0.4	28.5	<0.01	0.03
ZZ40364		0.63	23.0	1070	11.8	9.1	<0.001	0.08	0.68	1.8	1.4	0.4	47.9	<0.01	0.03
ZZ40365		0.75	22.0	670	10.7	9.6	<0.001	0.05	0.66	1.9	0.7	0.5	28.7	<0.01	0.02
ZZ40366		0.86	9.6	210	4.8	5.4	<0.001	0.01	0.44	1.1	0.3	0.6	25.2	<0.01	0.01
ZZ40367		1.08	19.2	660	12.3	8.8	<0.001	0.03	0.51	2.9	0.8	0.7	34.4	<0.01	0.03
ZZ40368		0.73	19.0	510	9.0	5.4	<0.001	0.03	0.59	1.5	0.5	0.4	31.3	0.01	0.02
ZZ40369		0.44	9.6	600	4.5	4.1	<0.001	0.06	0.41	0.9	1.0	0.3	28.5	<0.01	0.01
DD005641		0.66	14.5	490	7.5	6.8	0.001	0.04	0.33	1.2	0.6	0.4	29.0	<0.01	0.01
DD005642		0.98	21.3	190	9.1	10.8	<0.001	0.02	0.61	1.9	1.0	0.5	32.2	<0.01	0.02
DD005643		0.75	23.1	450	12.5	12.1	<0.001	0.03	0.67	1.5	1.0	0.6	31.5	<0.01	0.04





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**CERTIFICATE OF ANALYSIS WH12195452**

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
ZZ40333		0.022	0.18	5.80	39	0.22	17.55	72	1.1
ZZ40334		0.017	0.15	2.29	40	0.17	10.55	94	0.9
ZZ40335		0.023	0.12	1.08	36	0.28	7.16	71	0.8
ZZ40336		0.022	0.17	3.38	46	0.15	19.05	94	1.4
ZZ40337		0.013	0.13	2.26	31	0.16	8.13	75	1.4
ZZ40338		0.019	0.12	1.42	39	0.17	7.78	74	2.0
ZZ40339		0.016	0.12	7.69	49	0.12	18.50	57	1.8
ZZ40340		0.015	0.20	8.06	37	0.19	21.1	88	1.9
ZZ40341		0.019	0.10	0.85	32	0.15	4.65	75	1.3
ZZ40342		0.019	0.09	1.58	35	0.76	10.60	80	2.3
ZZ40343		0.016	0.11	3.54	28	0.15	9.01	65	1.6
ZZ40344		0.012	0.08	0.68	26	0.15	4.57	52	0.8
ZZ40345		0.014	0.13	1.02	44	0.23	4.91	69	0.7
ZZ40346		0.020	0.17	3.10	46	0.17	25.8	95	1.0
ZZ40347		0.022	0.10	0.49	37	0.25	3.33	60	<0.5
ZZ40348		0.021	0.12	1.37	19	0.06	5.75	56	1.2
ZZ40349		0.012	0.09	1.02	29	0.13	11.80	71	1.0
ZZ40350		0.012	0.07	1.09	26	0.12	12.10	62	1.0
ZZ40351		0.019	0.10	0.86	27	0.20	6.27	59	0.8
ZZ40352		0.015	0.09	1.06	27	0.19	6.75	55	0.9
ZZ40353		0.024	0.12	1.89	42	0.12	9.99	78	1.0
ZZ40354		0.013	0.06	1.03	24	0.09	6.92	44	1.1
ZZ40355		0.022	0.06	1.07	25	0.11	4.81	37	1.1
ZZ40356		0.021	0.11	0.77	39	0.18	4.29	87	0.9
ZZ40357		0.020	0.06	0.89	20	0.08	4.46	43	1.0
ZZ40358		0.021	0.08	1.08	39	0.46	6.01	80	0.8
ZZ40359		0.023	0.11	1.60	43	0.32	5.12	110	0.9
ZZ40360		0.021	0.13	2.01	40	1.33	5.92	67	0.9
ZZ40361		0.024	0.11	3.46	46	1.80	17.35	64	0.9
ZZ40362		0.015	0.08	0.80	41	7.95	4.20	91	0.9
ZZ40363		0.026	0.14	3.42	50	2.46	9.67	93	0.7
ZZ40364		0.020	0.14	5.54	43	1.87	24.1	100	0.9
ZZ40365		0.028	0.12	2.88	50	1.51	10.10	76	0.5
ZZ40366		0.027	0.09	0.62	47	1.98	2.97	36	<0.5
ZZ40367		0.042	0.16	3.55	57	1.08	11.50	92	0.7
ZZ40368		0.024	0.10	1.10	38	1.03	5.90	93	0.7
ZZ40369		0.024	0.07	1.30	27	0.29	5.32	54	0.8
DD005641		0.023	0.13	2.22	42	1.67	6.25	116	<0.5
DD005642		0.025	0.17	1.31	73	0.89	4.37	200	0.8
DD005643		0.023	0.17	1.41	75	3.51	3.84	315	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
DD005644		0.23	0.001	0.13	1.34	13.2	<0.2	<10	150	0.52	0.30	0.35	3.88	17.90	4.2	17
DD005645		0.26	0.002	0.20	2.02	17.4	<0.2	<10	130	0.79	0.35	0.14	5.32	23.1	5.6	16
DD005646		0.23	<0.001	0.14	1.73	22.8	<0.2	<10	150	0.71	0.35	0.13	7.76	23.4	5.4	23
DD005647		0.19	0.002	0.36	2.27	52.3	<0.2	<10	170	1.28	0.34	0.20	5.46	42.4	7.8	28
DD005648		0.23	<0.001	0.12	1.53	23.5	<0.2	<10	150	0.47	0.36	0.11	6.05	20.1	8.9	20
DD005649		0.24	0.001	0.12	1.72	20.4	<0.2	<10	130	0.61	0.33	0.19	2.36	18.95	5.2	18
DD005650		0.22	0.002	0.12	1.26	19.6	<0.2	<10	120	0.32	0.30	0.16	0.87	17.45	4.5	17
DD005651		0.24	0.001	0.21	1.42	11.6	<0.2	<10	140	0.33	0.32	0.10	2.39	21.0	5.3	22
DD005652		0.27	<0.001	0.08	1.21	12.5	<0.2	<10	160	0.46	0.36	0.27	1.65	25.6	4.3	17
DD005653		0.19	<0.001	0.17	1.94	12.7	<0.2	<10	170	0.99	0.54	0.45	0.52	33.5	5.9	20
DD005654		0.23	0.003	0.10	1.15	5.4	<0.2	<10	160	0.50	10.15	0.49	0.34	24.9	3.7	12
DD005655		0.21	<0.001	0.11	1.90	9.2	<0.2	<10	310	0.71	0.44	0.40	0.29	20.4	5.6	18
DD005656		0.25	0.001	0.11	1.60	8.0	<0.2	<10	200	0.58	0.42	0.29	0.34	19.00	6.1	23
DD005657		0.19	<0.001	0.13	2.19	7.7	<0.2	<10	180	0.94	0.35	0.48	0.38	19.75	6.1	18
DD005658		0.18	0.001	0.10	1.93	10.4	<0.2	<10	130	0.79	0.40	0.57	3.54	20.9	8.0	18
DD005659		0.25	0.005	0.10	1.04	7.8	<0.2	<10	110	0.33	0.35	0.26	0.50	11.40	2.5	10
DD005660		0.19	0.004	0.18	1.31	13.6	<0.2	<10	290	0.69	0.29	0.45	0.35	61.7	6.2	21
DD005661		0.19	0.001	0.26	1.29	10.1	<0.2	<10	240	0.88	0.39	0.27	0.16	31.2	4.5	17
DD005662		0.18	0.006	0.32	1.79	34.9	<0.2	<10	270	2.03	0.38	0.43	0.45	79.7	10.1	30
DD005663		0.20	0.003	0.10	1.87	13.7	<0.2	<10	130	0.57	0.76	0.12	0.11	22.1	5.9	20
DD005664		0.19	0.001	0.08	1.22	9.1	<0.2	<10	150	0.41	0.21	0.18	0.11	16.70	3.6	15
DD005665		0.24	<0.001	0.09	1.24	6.5	<0.2	<10	190	0.35	0.23	0.21	0.10	19.40	3.6	17
DD005666		0.22	0.002	0.25	0.94	15.0	<0.2	<10	160	0.29	0.21	0.11	1.33	18.50	4.7	16
DD005667		0.27	0.003	0.12	1.41	8.9	<0.2	<10	250	0.49	0.20	0.21	0.12	21.7	4.9	20
DD005668		0.18	0.003	0.19	3.75	6.0	<0.2	<10	100	1.14	0.22	0.66	0.43	26.0	5.8	15
DD005669		0.17	0.001	0.15	1.06	5.3	<0.2	<10	210	0.38	0.18	0.44	0.22	22.6	4.9	14
DD005670		0.20	0.001	0.09	0.75	7.9	<0.2	<10	120	0.23	0.17	0.17	0.17	16.20	3.0	14
DD005671		0.17	0.002	0.16	1.44	9.9	<0.2	<10	290	0.52	0.26	0.32	0.30	22.7	6.7	22
DD005672		0.12	<0.001	0.17	0.58	2.9	<0.2	<10	130	0.25	0.09	0.81	0.21	8.95	2.6	6
DD005673		0.16	0.001	0.12	1.08	11.5	<0.2	<10	260	0.44	0.22	0.45	0.14	24.2	5.3	20
DD005674		0.18	<0.001	0.08	1.11	8.2	<0.2	<10	260	0.27	0.19	0.26	0.10	16.15	4.7	16
DD005675		0.20	<0.001	0.31	1.10	2.7	<0.2	<10	310	0.50	0.21	0.31	1.19	27.8	8.5	12
ZZ31251		0.21	0.003	0.35	1.74	21.3	<0.2	<10	410	0.62	0.31	0.24	0.25	27.9	5.2	25
ZZ31252		0.20	0.002	0.78	1.62	17.6	<0.2	<10	530	0.69	0.27	0.51	0.55	29.2	5.3	21
ZZ31253		0.21	0.002	0.51	1.05	13.7	<0.2	<10	230	0.37	0.21	0.17	0.53	15.95	3.5	15
ZZ31254		0.36	0.003	0.31	1.68	22.6	<0.2	<10	230	0.49	0.33	0.13	0.53	22.2	8.8	24
ZZ31255		0.19	0.001	0.81	1.51	11.9	<0.2	<10	450	0.73	0.23	0.34	0.83	30.6	4.4	19
ZZ31256		0.30	0.003	0.38	1.21	18.2	<0.2	<10	340	0.35	0.30	0.13	2.58	21.1	6.5	17
ZZ31257		0.27	0.002	0.36	1.08	32.3	<0.2	<10	270	0.28	0.28	0.08	0.35	19.40	3.7	17
ZZ31258		0.22	0.001	0.39	1.14	19.8	<0.2	<10	320	0.40	0.24	0.16	0.46	23.5	5.1	18



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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
DD005644		3.71	12.2	1.83	4.19	<0.05	0.02	0.01	0.028	0.05	8.8	14.8	0.25	166	3.22
DD005645		3.14	18.6	1.97	5.09	0.06	0.07	0.03	0.048	0.06	12.5	19.2	0.27	178	4.25
DD005646		4.88	14.0	2.31	6.51	<0.05	<0.02	0.01	0.030	0.07	12.6	23.5	0.35	156	5.52
DD005647		3.91	23.8	2.76	5.92	<0.05	0.02	0.02	0.045	0.08	15.0	23.4	0.45	232	6.88
DD005648		2.46	10.7	2.36	5.64	<0.05	0.03	0.01	0.027	0.05	10.8	17.0	0.30	241	1.73
DD005649		3.39	6.2	2.04	5.70	<0.05	<0.02	0.01	0.029	0.09	9.9	25.1	0.32	223	1.40
DD005650		1.86	7.9	1.67	4.85	<0.05	<0.02	0.01	0.018	0.08	9.6	15.6	0.27	227	1.50
DD005651		1.65	9.1	2.19	5.47	<0.05	0.02	0.01	0.025	0.08	10.6	15.7	0.33	205	1.45
DD005652		1.71	11.5	1.69	4.19	<0.05	0.02	0.01	0.019	0.08	12.8	16.5	0.32	241	1.66
DD005653		2.64	21.5	2.06	6.07	<0.05	0.03	0.01	0.028	0.07	18.0	21.0	0.35	263	1.40
DD005654		2.01	10.9	1.95	3.21	0.05	0.03	0.01	0.019	0.08	9.3	8.4	0.22	545	1.12
DD005655		2.29	11.2	1.96	5.95	<0.05	0.03	0.02	0.022	0.07	9.2	15.4	0.30	192	1.53
DD005656		1.85	6.8	2.16	5.59	<0.05	0.02	0.01	0.024	0.09	8.8	12.5	0.32	196	1.70
DD005657		3.85	14.7	2.07	6.37	<0.05	0.04	0.01	0.026	0.17	8.4	17.3	0.28	290	1.08
DD005658		2.67	17.3	2.23	5.34	<0.05	0.08	0.01	0.061	0.11	8.7	12.5	0.23	412	0.77
DD005659		3.34	5.5	1.48	4.63	<0.05	<0.02	0.01	0.022	0.11	5.9	22.1	0.20	132	1.41
DD005660		1.19	16.7	1.96	4.25	0.10	0.03	0.02	0.028	0.04	49.5	13.5	0.34	491	0.62
DD005661		1.92	14.4	1.61	4.41	<0.05	0.02	0.02	0.020	0.06	17.7	13.2	0.27	285	1.70
DD005662		2.20	35.2	2.69	5.66	0.07	0.03	0.02	0.033	0.06	36.4	21.9	0.44	527	1.98
DD005663		1.68	12.5	1.96	4.98	<0.05	0.06	0.02	0.020	0.06	11.0	13.7	0.33	155	3.12
DD005664		1.77	13.1	1.47	4.48	<0.05	0.02	0.02	0.019	0.04	9.3	13.1	0.24	89	1.09
DD005665		2.58	13.3	1.72	5.18	<0.05	<0.02	0.02	0.019	0.06	10.4	10.2	0.22	202	0.80
DD005666		1.06	11.3	1.76	4.32	<0.05	<0.02	0.01	0.017	0.10	10.1	9.7	0.21	215	1.05
DD005667		3.15	11.4	1.88	4.14	<0.05	0.03	0.02	0.023	0.05	10.6	13.2	0.38	144	1.02
DD005668		2.38	9.6	1.95	9.83	<0.05	0.04	0.02	0.017	0.03	13.5	11.1	0.21	202	0.68
DD005669		1.22	9.2	1.49	3.38	<0.05	0.04	0.02	0.020	0.08	10.7	6.9	0.21	499	0.53
DD005670		0.74	7.0	1.36	2.93	<0.05	<0.02	0.01	0.013	0.09	7.9	8.2	0.23	98	0.75
DD005671		2.18	13.1	2.28	4.93	<0.05	<0.02	0.02	0.023	0.10	10.9	13.8	0.36	276	1.02
DD005672		0.54	14.6	0.73	2.01	<0.05	0.03	0.02	0.008	0.03	7.8	2.8	0.10	151	0.27
DD005673		0.68	9.6	1.89	3.62	<0.05	0.02	0.02	0.021	0.08	10.6	9.6	0.34	241	0.83
DD005674		0.99	11.1	1.58	3.50	<0.05	0.02	0.02	0.018	0.07	7.3	10.8	0.28	196	0.86
DD005675		1.83	37.3	1.41	4.64	<0.05	<0.02	0.01	0.015	0.05	14.6	6.0	0.12	413	0.60
ZZ31251		2.78	27.3	1.99	5.80	<0.05	<0.02	0.03	0.028	0.06	14.3	23.6	0.44	218	2.50
ZZ31252		2.77	32.8	1.71	5.04	<0.05	0.03	0.09	0.026	0.06	16.5	17.1	0.33	154	2.13
ZZ31253		2.32	21.4	1.37	4.19	<0.05	<0.02	0.02	0.019	0.05	8.8	11.8	0.24	159	1.60
ZZ31254		2.85	18.4	2.62	6.12	<0.05	0.04	0.02	0.028	0.09	11.7	21.1	0.42	398	2.31
ZZ31255		3.10	37.9	1.49	4.70	0.05	0.02	0.05	0.020	0.06	16.4	18.5	0.33	230	2.79
ZZ31256		2.10	24.2	1.75	5.94	<0.05	0.04	0.02	0.021	0.06	11.2	14.1	0.24	501	4.19
ZZ31257		2.18	21.9	1.34	5.49	<0.05	<0.02	0.02	0.018	0.06	10.3	12.4	0.26	175	1.83
ZZ31258		2.53	27.1	1.47	4.78	<0.05	<0.02	0.02	0.021	0.08	12.4	15.4	0.34	183	1.54



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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
DD005644		0.83	31.7	410	10.4	11.4	0.001	0.03	0.79	1.5	2.8	0.5	23.5	<0.01	0.02
DD005645		1.51	55.3	240	14.1	10.1	<0.001	0.03	1.14	2.7	4.0	0.9	21.1	0.01	0.05
DD005646		1.42	26.1	240	15.1	23.2	0.001	0.02	0.69	2.5	1.9	0.9	15.7	<0.01	0.02
DD005647		1.47	66.6	200	18.8	20.2	<0.001	0.02	0.84	3.0	2.7	0.8	17.3	<0.01	0.04
DD005648		1.48	22.3	170	11.9	14.2	<0.001	0.02	0.69	2.3	1.0	1.0	14.3	<0.01	0.04
DD005649		1.80	16.5	170	13.9	23.3	<0.001	0.02	0.57	2.5	0.6	1.3	18.6	<0.01	0.02
DD005650		1.40	10.9	180	10.9	22.1	0.001	0.01	0.52	1.9	0.5	0.9	14.7	<0.01	0.01
DD005651		1.42	14.9	300	11.9	22.9	<0.001	0.01	0.71	2.3	0.3	0.9	9.3	<0.01	0.01
DD005652		0.98	17.8	300	9.6	20.2	0.002	0.02	0.65	2.3	0.8	0.7	20.1	<0.01	<0.01
DD005653		0.98	33.0	320	11.8	16.9	0.002	0.02	0.61	2.7	0.6	0.6	25.8	<0.01	0.02
DD005654		0.60	11.5	190	7.5	11.2	0.002	0.02	0.35	1.9	1.1	0.4	33.3	<0.01	0.03
DD005655		1.22	24.5	220	9.5	16.3	0.002	0.02	0.54	2.4	0.7	0.7	33.9	<0.01	0.01
DD005656		1.28	15.6	160	12.3	22.3	0.002	0.01	0.46	2.6	0.4	0.8	19.9	<0.01	0.01
DD005657		1.09	24.0	240	11.9	29.8	0.001	0.02	0.40	2.4	0.3	0.6	39.8	<0.01	0.01
DD005658		0.98	22.4	260	13.8	15.1	0.002	0.03	0.46	3.0	0.6	0.5	43.3	<0.01	0.03
DD005659		1.69	10.2	220	7.9	49.1	0.001	0.02	0.50	1.8	0.4	1.6	21.3	<0.01	0.01
DD005660		0.89	18.1	580	9.8	6.0	0.002	0.01	0.53	3.5	1.5	0.5	23.7	<0.01	0.02
DD005661		0.73	16.5	400	11.0	17.1	0.001	0.02	0.43	1.9	0.8	0.4	20.5	<0.01	0.01
DD005662		0.96	33.0	630	16.2	12.2	0.002	0.02	0.86	4.2	1.5	0.6	22.5	<0.01	0.02
DD005663		1.30	20.1	230	13.2	8.8	0.001	0.02	0.82	2.7	0.9	0.5	11.5	0.01	0.03
DD005664		1.07	14.2	190	8.3	8.2	0.001	0.02	0.60	1.8	0.4	0.5	17.4	<0.01	0.01
DD005665		1.00	11.3	230	11.6	18.5	0.001	0.02	0.30	1.6	0.2	0.6	17.7	<0.01	<0.01
DD005666		0.84	13.4	290	10.9	16.0	0.002	0.02	0.70	1.4	0.3	0.6	11.4	<0.01	0.01
DD005667		0.99	22.0	130	10.1	10.3	0.002	0.01	0.74	2.4	0.4	0.5	15.0	<0.01	<0.01
DD005668		0.86	29.2	760	14.6	6.1	0.001	0.06	0.49	1.5	0.5	0.3	42.0	0.01	0.01
DD005669		0.67	10.5	260	14.0	12.7	0.001	0.02	0.34	2.2	0.4	0.4	19.8	<0.01	<0.01
DD005670		0.75	10.8	210	7.3	12.5	0.002	0.02	0.56	1.4	0.4	0.4	11.2	<0.01	<0.01
DD005671		0.65	18.0	640	13.0	17.5	0.001	0.03	0.63	1.6	0.4	0.5	17.4	<0.01	0.02
DD005672		0.33	10.3	490	3.9	3.9	0.002	0.05	0.24	0.6	0.5	0.2	20.0	<0.01	<0.01
DD005673		0.77	16.3	350	10.8	7.3	0.002	0.02	0.66	2.6	0.5	0.4	16.1	<0.01	0.02
DD005674		0.67	16.3	400	8.9	16.0	0.002	0.03	0.65	1.6	0.2	0.4	16.0	<0.01	0.01
DD005675		0.51	18.1	790	11.9	16.7	0.002	0.04	0.41	0.4	0.5	0.5	24.6	<0.01	<0.01
ZZ31251		0.95	18.6	600	16.0	15.5	0.002	0.02	1.57	2.7	0.7	1.1	20.7	<0.01	0.02
ZZ31252		0.73	21.1	1110	14.0	12.9	0.002	0.06	1.37	2.6	1.4	0.8	33.9	<0.01	0.01
ZZ31253		0.37	12.8	590	9.3	13.7	0.002	0.03	0.99	0.9	0.6	0.7	17.8	<0.01	0.02
ZZ31254		1.31	18.6	610	14.8	19.4	0.002	0.01	1.20	2.9	0.6	1.0	16.3	<0.01	0.01
ZZ31255		0.75	19.8	880	9.2	16.6	0.004	0.05	0.92	2.2	1.5	0.8	24.6	<0.01	<0.01
ZZ31256		1.27	13.0	530	12.7	27.8	0.001	0.01	0.90	2.1	0.8	1.0	14.5	<0.01	<0.01
ZZ31257		0.79	11.5	470	12.5	15.6	0.001	0.02	1.43	1.5	0.9	1.0	12.5	<0.01	0.02
ZZ31258		0.60	17.0	680	12.1	16.6	0.002	0.02	1.98	1.5	0.8	0.9	17.3	<0.01	0.01



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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
DD005644		0.026	0.19	1.80	89	0.88	4.26	544	0.5
DD005645		0.032	0.27	2.86	89	0.85	6.51	1200	1.7
DD005646		0.044	0.25	1.45	93	2.22	4.44	783	<0.5
DD005647		0.048	0.29	1.83	72	0.67	5.07	1270	<0.5
DD005648		0.046	0.24	0.76	72	0.48	2.84	618	0.9
DD005649		0.050	0.19	0.73	55	0.79	3.36	220	<0.5
DD005650		0.043	0.15	0.59	54	0.60	2.69	172	<0.5
DD005651		0.051	0.17	0.57	59	0.54	2.26	390	0.5
DD005652		0.031	0.12	1.52	40	1.97	6.16	115	<0.5
DD005653		0.029	0.17	2.06	44	0.94	10.80	66	0.6
DD005654		0.023	0.06	0.71	26	13.30	6.51	42	0.7
DD005655		0.032	0.13	0.72	46	0.82	3.60	76	0.8
DD005656		0.037	0.13	0.50	58	0.64	2.26	65	0.7
DD005657		0.028	0.10	0.79	52	0.38	3.84	72	1.2
DD005658		0.024	0.10	1.44	52	0.66	8.91	400	1.9
DD005659		0.040	0.20	0.76	40	0.45	2.91	37	<0.5
DD005660		0.032	0.12	8.63	41	0.32	26.2	136	0.7
DD005661		0.026	0.12	5.37	42	0.32	13.55	48	<0.5
DD005662		0.038	0.16	23.2	53	0.48	31.9	181	0.6
DD005663		0.033	0.14	2.42	47	0.28	5.07	52	2.0
DD005664		0.029	0.12	1.43	45	0.29	3.44	39	0.7
DD005665		0.033	0.10	1.18	54	0.39	3.49	38	<0.5
DD005666		0.035	0.08	0.42	39	0.33	2.03	127	<0.5
DD005667		0.025	0.15	0.59	47	0.40	3.00	66	0.9
DD005668		0.025	0.07	0.96	41	0.40	5.03	58	0.8
DD005669		0.028	0.06	0.67	33	0.24	8.22	50	0.9
DD005670		0.030	0.08	0.40	36	0.24	2.15	48	<0.5
DD005671		0.028	0.12	0.70	49	0.28	3.83	100	<0.5
DD005672		0.021	0.05	0.56	18	0.07	9.46	27	0.8
DD005673		0.030	0.07	0.67	41	0.34	5.24	57	0.6
DD005674		0.020	0.09	0.48	39	0.27	2.30	54	0.6
DD005675		0.020	0.06	0.90	39	0.26	4.74	68	<0.5
ZZ31251		0.032	0.25	2.08	62	0.30	6.85	81	<0.5
ZZ31252		0.023	0.20	2.97	49	0.32	10.70	73	0.6
ZZ31253		0.026	0.14	1.38	44	0.21	3.65	56	<0.5
ZZ31254		0.047	0.17	0.80	64	0.48	3.68	95	1.3
ZZ31255		0.029	0.19	4.86	40	0.23	12.70	111	<0.5
ZZ31256		0.041	0.16	0.74	56	0.54	3.50	102	1.2
ZZ31257		0.033	0.14	0.82	48	0.40	3.08	58	<0.5
ZZ31258		0.031	0.16	1.17	47	0.24	4.99	84	<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
ZZ31259		0.32	0.001	0.29	1.48	23.0	<0.2	<10	320	0.36	0.33	0.11	0.31	22.8	5.8	25
ZZ31260		0.22	0.002	0.53	1.25	12.9	<0.2	<10	480	0.42	0.23	0.14	0.53	21.4	3.7	18
ZZ31261		0.31	0.003	0.44	1.29	19.0	<0.2	<10	490	0.48	0.23	0.31	0.39	29.4	5.2	24
ZZ31262		0.28	0.004	0.65	1.33	19.8	<0.2	<10	400	0.49	0.22	0.24	0.34	17.10	4.4	17
ZZ31263		0.27	0.003	0.38	1.72	43.8	<0.2	<10	460	0.49	0.35	0.27	0.49	26.1	9.4	27
ZZ31264		0.23	0.004	0.78	1.83	43.0	<0.2	<10	480	0.55	0.36	0.21	0.58	19.20	7.4	24
ZZ31265		0.25	0.004	0.45	1.37	24.3	<0.2	<10	500	0.44	0.27	0.30	0.54	23.5	5.0	24
ZZ31266		0.27	0.003	0.51	1.22	22.6	<0.2	<10	300	0.37	0.22	0.24	0.41	24.1	5.3	22
ZZ31267		0.27	0.003	0.68	1.73	27.7	<0.2	<10	570	0.62	0.32	0.26	0.61	24.0	7.1	26
ZZ31268		0.27	0.002	0.52	0.94	15.2	<0.2	<10	300	0.32	0.17	0.22	0.25	17.50	4.1	17
ZZ31269		0.30	0.003	0.70	1.53	14.5	<0.2	<10	500	0.51	0.24	0.25	0.39	22.5	3.7	27
ZZ31270		0.22	0.001	0.56	0.75	7.7	<0.2	<10	270	0.26	0.10	0.26	0.28	10.75	1.8	12
ZZ31271		0.25	0.002	0.36	1.04	18.2	<0.2	<10	340	0.38	0.18	0.40	0.55	21.3	6.5	21
ZZ31272		0.24	0.003	0.34	1.14	14.1	<0.2	<10	380	0.55	0.19	0.56	0.65	26.2	7.9	24
ZZ31273		0.20	0.001	0.23	1.56	17.1	<0.2	<10	180	0.38	0.26	0.16	0.47	25.9	6.0	27
ZZ31274		0.30	<0.001	0.59	1.28	19.8	<0.2	<10	330	0.39	0.30	0.16	1.30	28.0	5.0	22
ZZ31275		0.26	0.002	0.64	1.90	27.5	<0.2	<10	420	0.57	0.33	0.21	1.00	22.9	9.1	28
ZZ31276		0.35	0.003	0.60	1.65	29.1	<0.2	<10	610	0.68	0.31	0.48	0.48	26.3	6.2	26
ZZ31277		0.26	<0.001	0.21	1.33	18.8	<0.2	<10	220	0.32	0.25	0.10	0.33	21.9	3.0	21
ZZ31278		0.32	0.003	0.83	1.83	29.4	<0.2	<10	520	0.71	0.30	0.35	0.59	24.7	6.5	26
ZZ31279		0.40	0.002	0.63	1.42	22.3	<0.2	<10	500	0.61	0.28	0.46	0.75	24.8	6.5	25
ZZ31280		0.28	0.003	0.70	1.88	29.5	<0.2	<10	810	0.85	0.34	0.44	1.19	32.2	7.6	29
ZZ31281		0.26	0.002	0.52	1.39	18.8	<0.2	<10	310	0.57	0.21	0.33	0.49	21.8	5.1	19
ZZ31282		0.22	0.002	0.23	1.22	24.4	<0.2	<10	260	0.39	0.25	0.17	0.50	23.6	5.0	20
ZZ31283		0.27	0.005	0.54	1.15	21.1	<0.2	<10	250	0.41	0.21	0.21	0.40	17.20	4.7	16
ZZ31284		0.28	0.002	0.63	1.01	14.3	<0.2	<10	370	0.47	0.19	0.37	0.69	19.85	6.9	16
ZZ31285		0.31	0.001	0.39	1.30	32.3	<0.2	<10	440	0.52	0.28	0.61	1.07	24.3	7.7	25
ZZ31286		0.27	0.003	0.63	1.60	28.6	<0.2	<10	540	0.67	0.30	0.60	2.02	22.3	7.5	24
ZZ31287		0.25	0.004	0.89	1.92	18.5	<0.2	<10	710	0.80	0.30	0.97	3.91	27.2	6.8	27
ZZ31288		0.23	0.003	0.50	1.35	32.8	<0.2	<10	250	0.55	0.26	0.14	0.65	21.9	6.4	22
ZZ31289		0.40	0.003	0.62	1.43	35.1	<0.2	<10	430	0.57	0.39	0.53	0.56	22.8	7.2	24
ZZ31290		0.27	0.002	0.55	1.31	33.2	<0.2	<10	440	0.56	0.30	0.72	0.87	20.5	7.3	21
ZZ31291		0.20	0.003	0.83	1.23	27.8	<0.2	<10	520	0.64	0.24	0.84	0.84	20.6	6.0	17
ZZ31292		0.27	0.002	0.37	1.31	22.3	<0.2	<10	480	0.49	0.22	0.78	0.78	21.7	7.6	25
ZZ31293		0.26	0.002	0.54	0.92	17.5	<0.2	<10	320	0.44	0.12	0.43	0.35	10.65	3.4	9
ZZ31294		0.35	0.003	0.60	1.72	32.3	<0.2	<10	600	0.74	0.30	0.64	0.95	24.8	8.3	28
ZZ31295		0.49	0.003	0.36	1.23	39.5	<0.2	<10	360	0.49	0.30	0.50	0.60	28.3	5.7	23
ZZ31296		0.37	0.004	0.54	1.41	32.3	<0.2	<10	470	0.57	0.28	0.56	1.01	24.3	8.3	23
ZZ31297		0.30	0.004	0.56	1.62	32.9	<0.2	<10	510	0.62	0.31	0.45	0.74	24.2	8.9	24
ZZ31298		0.31	0.003	0.47	1.26	33.1	<0.2	<10	340	0.52	0.27	0.37	0.71	24.8	6.4	24



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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
ZZ31259		2.19	18.9	2.40	6.58	<0.05	<0.02	0.01	0.024	0.08	11.9	18.5	0.42	274	2.02
ZZ31260		1.70	27.4	1.52	4.95	<0.05	<0.02	0.04	0.018	0.06	11.5	12.7	0.26	142	1.12
ZZ31261		2.70	32.3	1.63	4.25	0.06	<0.02	0.04	0.020	0.07	16.0	16.4	0.49	223	1.71
ZZ31262		2.34	23.3	1.55	4.42	<0.05	<0.02	0.06	0.020	0.07	9.1	11.7	0.28	220	1.92
ZZ31263		3.01	24.9	2.34	5.70	0.06	0.02	0.05	0.029	0.08	14.0	21.1	0.50	393	3.45
ZZ31264		3.52	34.7	2.51	5.65	<0.05	<0.02	0.08	0.036	0.11	10.1	15.6	0.42	255	3.31
ZZ31265		2.47	25.1	1.77	4.60	0.05	<0.02	0.07	0.022	0.08	12.8	16.7	0.45	169	2.15
ZZ31266		2.17	20.6	1.60	4.29	0.05	0.02	0.05	0.021	0.06	12.9	15.9	0.42	168	1.93
ZZ31267		2.99	38.7	2.02	5.61	0.06	0.02	0.08	0.030	0.07	12.8	18.1	0.44	311	2.31
ZZ31268		1.81	16.9	1.34	3.39	<0.05	<0.02	0.06	0.015	0.05	9.2	11.0	0.31	139	1.39
ZZ31269		3.34	25.2	1.45	4.97	0.05	<0.02	0.10	0.021	0.07	12.3	16.6	0.42	93	1.58
ZZ31270		1.44	15.6	0.69	2.79	<0.05	<0.02	0.07	0.009	0.03	5.8	8.6	0.23	53	0.70
ZZ31271		2.12	19.9	1.54	3.92	<0.05	0.04	0.06	0.016	0.06	11.4	16.2	0.40	288	2.04
ZZ31272		2.02	31.4	1.71	3.91	0.06	0.03	0.07	0.021	0.08	13.9	19.8	0.49	246	1.54
ZZ31273		1.81	13.9	2.93	6.02	0.05	<0.02	0.03	0.024	0.07	13.4	18.7	0.39	244	2.11
ZZ31274		2.35	14.6	2.27	6.77	<0.05	0.03	0.02	0.022	0.08	14.6	16.1	0.32	202	2.05
ZZ31275		3.40	25.1	2.40	6.17	0.05	0.02	0.11	0.030	0.08	12.3	18.5	0.43	473	4.81
ZZ31276		3.37	32.3	2.16	5.18	0.07	0.03	0.13	0.028	0.09	13.9	16.5	0.42	238	3.25
ZZ31277		2.32	17.9	1.45	5.63	<0.05	<0.02	0.04	0.019	0.05	11.8	16.5	0.30	78	1.69
ZZ31278		3.11	30.7	2.39	5.27	0.06	0.04	0.19	0.029	0.08	13.0	19.5	0.43	181	4.26
ZZ31279		2.66	31.8	1.64	4.65	0.05	0.03	0.09	0.023	0.06	13.4	21.9	0.50	188	1.79
ZZ31280		3.47	31.9	2.28	5.58	0.07	0.05	0.13	0.034	0.08	17.0	21.8	0.53	229	4.15
ZZ31281		2.42	28.7	1.59	4.56	0.05	<0.02	0.08	0.021	0.06	12.0	16.4	0.30	192	1.97
ZZ31282		2.00	17.6	1.72	5.22	0.05	<0.02	0.04	0.020	0.06	12.2	12.5	0.34	180	1.99
ZZ31283		2.13	20.5	1.81	4.73	<0.05	<0.02	0.04	0.019	0.06	9.4	11.3	0.25	140	1.52
ZZ31284		2.00	22.5	1.21	3.41	0.05	0.02	0.08	0.019	0.05	10.3	12.8	0.32	1620	1.48
ZZ31285		2.70	23.9	1.62	4.41	0.06	0.04	0.06	0.023	0.07	12.3	23.8	0.53	234	2.66
ZZ31286		3.15	30.2	1.83	4.77	0.06	0.05	0.12	0.028	0.06	12.0	27.2	0.47	381	3.51
ZZ31287		3.53	33.8	1.63	5.13	0.06	0.06	0.17	0.031	0.07	14.7	33.1	0.55	263	1.12
ZZ31288		2.39	35.8	2.05	5.17	0.05	0.03	0.12	0.026	0.08	11.6	16.7	0.36	161	3.30
ZZ31289		3.57	26.8	1.63	4.57	0.06	0.04	0.07	0.028	0.07	11.8	21.7	0.59	438	3.69
ZZ31290		3.06	32.4	1.69	4.42	0.05	0.05	0.06	0.026	0.06	10.4	19.3	0.48	446	2.43
ZZ31291		1.91	30.9	1.54	3.79	0.05	0.03	0.10	0.024	0.07	11.1	13.0	0.35	321	1.63
ZZ31292		2.04	18.3	1.87	4.58	0.05	0.03	0.05	0.023	0.07	10.9	17.8	0.57	229	2.02
ZZ31293		1.55	24.4	1.02	3.07	<0.05	<0.02	0.06	0.016	0.05	5.3	6.0	0.16	119	1.22
ZZ31294		3.32	31.7	2.04	5.24	0.05	0.05	0.09	0.031	0.07	13.1	22.5	0.64	454	3.18
ZZ31295		3.29	28.2	1.79	4.08	0.06	0.04	0.04	0.025	0.09	15.1	20.5	0.60	178	2.78
ZZ31296		3.06	30.4	1.96	4.67	0.06	0.03	0.09	0.027	0.07	12.9	19.3	0.51	306	2.72
ZZ31297		3.29	31.1	2.02	4.79	0.07	0.04	0.09	0.028	0.07	12.8	19.0	0.48	506	3.80
ZZ31298		3.15	29.0	1.83	4.33	0.06	0.02	0.08	0.024	0.07	13.2	19.7	0.52	219	4.03





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**CERTIFICATE OF ANALYSIS WH12195452**

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
ZZ31259		1.24	17.7	730	15.0	18.4	0.001	0.01	1.63	2.7	0.5	1.1	14.5	<0.01	0.02
ZZ31260		0.62	12.5	560	11.1	16.9	0.002	0.02	0.77	1.2	0.6	0.7	16.8	<0.01	<0.01
ZZ31261		0.72	22.4	880	12.7	12.6	0.002	0.02	1.90	2.9	1.1	0.8	33.2	<0.01	<0.01
ZZ31262		0.36	16.7	720	12.7	13.9	0.003	0.03	1.63	1.2	1.7	0.8	26.8	0.01	<0.01
ZZ31263		1.03	26.1	1020	21.8	17.5	0.001	0.02	3.65	3.2	1.7	1.3	28.2	<0.01	0.05
ZZ31264		0.58	28.8	990	19.8	19.0	0.001	0.04	3.60	2.0	1.5	1.2	25.0	<0.01	0.05
ZZ31265		0.54	21.7	980	14.1	15.4	0.001	0.03	1.90	1.7	0.9	1.2	29.9	<0.01	0.03
ZZ31266		0.75	19.6	940	14.2	11.3	0.001	0.02	3.25	2.4	0.8	0.9	22.9	<0.01	0.03
ZZ31267		0.71	24.9	920	19.1	17.3	0.001	0.02	2.25	2.7	1.1	1.1	27.4	<0.01	0.04
ZZ31268		0.33	13.9	850	10.5	8.2	<0.001	0.02	1.48	1.2	0.8	0.6	21.7	<0.01	0.02
ZZ31269		0.53	21.7	830	13.5	15.7	0.001	0.03	1.55	2.2	1.1	0.8	25.7	<0.01	0.02
ZZ31270		0.43	11.6	660	5.1	7.0	0.001	0.03	0.80	1.1	0.7	0.5	21.3	<0.01	0.02
ZZ31271		0.82	21.2	920	11.5	11.7	0.001	0.02	1.46	2.7	0.9	0.8	32.1	<0.01	0.03
ZZ31272		0.93	27.1	760	11.1	13.7	<0.001	0.03	1.27	3.5	0.7	1.0	32.9	<0.01	0.03
ZZ31273		1.60	15.1	840	15.1	12.1	<0.001	0.02	1.15	2.7	0.6	0.9	16.3	<0.01	0.04
ZZ31274		1.66	12.2	480	16.3	21.2	<0.001	0.01	0.90	2.7	0.4	1.2	19.7	<0.01	0.04
ZZ31275		0.49	20.5	1260	18.4	20.6	0.002	0.05	1.43	1.5	2.3	1.0	26.8	<0.01	0.04
ZZ31276		0.64	25.2	1210	16.9	17.6	0.002	0.04	2.14	2.7	1.4	1.1	36.7	<0.01	0.04
ZZ31277		0.63	10.3	580	16.6	11.3	<0.001	0.02	1.12	1.4	0.7	1.1	13.4	<0.01	0.03
ZZ31278		0.64	25.7	1240	19.4	17.3	0.005	0.05	2.61	2.9	3.0	1.0	30.9	<0.01	0.04
ZZ31279		0.80	25.2	930	18.4	11.4	0.002	0.04	2.16	3.2	1.6	1.0	35.3	<0.01	0.04
ZZ31280		0.81	28.4	1250	22.4	19.0	0.004	0.04	2.54	4.0	2.9	1.1	33.7	<0.01	0.04
ZZ31281		0.34	17.9	790	12.5	11.3	0.001	0.03	1.61	0.9	1.1	0.8	23.9	<0.01	0.03
ZZ31282		0.78	17.2	800	15.9	11.1	<0.001	0.02	1.96	2.0	0.6	1.0	19.9	<0.01	0.03
ZZ31283		0.52	14.7	450	12.9	13.5	<0.001	0.01	1.61	1.7	0.6	0.8	17.7	<0.01	0.03
ZZ31284		0.39	17.1	990	12.9	8.8	0.001	0.04	1.50	1.9	1.1	0.6	27.3	<0.01	0.03
ZZ31285		0.83	22.5	1190	20.0	11.7	0.002	0.03	2.69	3.2	1.4	1.1	38.1	<0.01	0.04
ZZ31286		0.70	28.0	1240	16.2	13.2	0.007	0.06	2.46	3.0	3.8	1.0	40.9	<0.01	0.04
ZZ31287		0.74	29.0	1560	20.5	19.3	0.008	0.10	2.46	3.2	3.6	1.0	52.8	<0.01	0.03
ZZ31288		0.94	27.0	720	16.8	13.5	<0.001	0.03	2.58	2.7	1.0	1.2	19.1	<0.01	0.05
ZZ31289		0.79	20.5	1250	24.6	12.2	0.005	0.04	2.61	3.0	2.2	1.6	42.3	<0.01	0.03
ZZ31290		0.87	23.1	940	20.9	13.3	0.002	0.05	2.62	2.8	1.9	1.1	39.5	<0.01	0.04
ZZ31291		0.70	22.2	840	16.9	12.6	0.001	0.05	2.16	2.4	1.7	0.9	48.0	<0.01	0.04
ZZ31292		1.14	21.9	800	18.3	13.1	0.001	0.04	2.77	2.9	1.1	1.0	42.1	<0.01	0.03
ZZ31293		0.34	17.1	480	10.7	8.4	0.001	0.03	1.89	1.2	0.8	0.6	26.7	<0.01	0.03
ZZ31294		0.81	26.7	1240	23.7	15.4	0.004	0.05	2.86	3.4	1.8	1.3	44.5	<0.01	0.05
ZZ31295		0.99	21.8	1310	22.7	12.4	0.002	0.02	2.96	3.2	1.5	1.5	43.5	<0.01	0.03
ZZ31296		0.86	25.2	1080	22.8	14.5	0.006	0.05	2.45	3.1	3.9	1.2	46.1	<0.01	0.04
ZZ31297		0.73	23.2	1190	22.2	15.5	0.006	0.05	2.35	2.9	3.8	1.2	40.7	<0.01	0.04
ZZ31298		0.80	22.0	1100	19.1	14.3	0.002	0.02	2.07	2.8	1.6	1.2	35.9	<0.01	0.04



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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
ZZ31259		0.047	0.17	0.86	67	0.53	3.72	82	0.5
ZZ31260		0.032	0.15	1.22	43	0.44	4.80	63	<0.5
ZZ31261		0.045	0.19	1.66	53	0.26	9.58	85	<0.5
ZZ31262		0.023	0.17	1.09	49	0.22	5.42	75	<0.5
ZZ31263		0.035	0.23	1.12	71	0.31	7.00	128	0.5
ZZ31264		0.023	0.24	1.11	69	5.57	5.68	162	<0.5
ZZ31265		0.028	0.18	1.11	55	0.28	6.66	98	<0.5
ZZ31266		0.035	0.17	0.99	51	0.30	6.21	85	<0.5
ZZ31267		0.027	0.23	1.65	60	0.28	7.52	105	<0.5
ZZ31268		0.028	0.14	0.86	45	0.28	4.92	69	<0.5
ZZ31269		0.028	0.20	1.12	57	0.25	6.31	99	<0.5
ZZ31270		0.020	0.11	0.67	25	0.14	3.47	47	<0.5
ZZ31271		0.033	0.18	0.95	50	0.26	5.92	93	1.0
ZZ31272		0.040	0.20	1.20	50	0.28	9.59	85	0.9
ZZ31273		0.054	0.14	0.71	65	0.68	4.07	86	<0.5
ZZ31274		0.053	0.17	0.75	70	0.39	3.86	78	1.2
ZZ31275		0.019	0.28	2.01	67	0.26	5.71	152	<0.5
ZZ31276		0.023	0.30	1.83	62	0.35	8.47	115	<0.5
ZZ31277		0.024	0.20	0.87	54	0.40	3.27	59	<0.5
ZZ31278		0.020	0.29	2.24	64	0.28	9.27	132	1.0
ZZ31279		0.033	0.21	2.07	57	0.71	8.83	98	0.8
ZZ31280		0.024	0.28	2.70	71	0.44	12.75	152	1.1
ZZ31281		0.020	0.20	2.70	46	0.69	6.52	65	<0.5
ZZ31282		0.039	0.17	0.81	55	0.29	5.08	72	<0.5
ZZ31283		0.039	0.16	0.80	55	0.25	4.37	69	<0.5
ZZ31284		0.024	0.17	1.89	41	0.22	7.33	78	<0.5
ZZ31285		0.035	0.20	2.24	59	0.26	7.74	131	1.4
ZZ31286		0.027	0.23	6.40	56	0.27	9.80	168	1.3
ZZ31287		0.023	0.25	7.24	65	0.17	13.25	239	1.6
ZZ31288		0.025	0.22	0.98	72	0.25	5.27	111	0.8
ZZ31289		0.034	0.21	1.59	59	0.57	8.19	120	1.3
ZZ31290		0.033	0.18	1.92	54	0.24	7.16	96	1.4
ZZ31291		0.024	0.15	2.31	42	0.19	10.30	83	0.7
ZZ31292		0.039	0.15	1.36	60	0.23	6.07	96	1.2
ZZ31293		0.017	0.13	0.80	30	0.11	4.66	65	<0.5
ZZ31294		0.027	0.26	2.24	69	0.32	9.71	150	1.4
ZZ31295		0.045	0.19	1.35	58	0.35	8.57	121	1.4
ZZ31296		0.030	0.20	1.78	59	2.36	8.60	114	1.0
ZZ31297		0.028	0.21	1.59	62	0.28	8.84	128	0.9
ZZ31298		0.037	0.20	1.34	61	0.38	7.54	124	0.6



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Project: KEG-Northwest

**CERTIFICATE OF ANALYSIS WH12195452**

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
ZZ31299		0.25	0.002	0.60	1.28	36.2	<0.2	<10	300	0.52	0.31	0.39	0.29	15.75	5.6	18
ZZ31300		0.27	0.004	0.72	1.08	16.1	<0.2	<10	230	0.44	0.33	0.39	0.57	16.00	4.6	14
ZZ31301		0.36	0.004	0.76	1.93	38.8	<0.2	<10	440	0.88	0.48	0.62	1.36	30.4	6.3	29
ZZ31302		0.21	0.003	0.18	0.92	17.8	<0.2	<10	210	0.26	0.24	0.13	0.51	19.25	3.0	13
ZZ31303		0.19	0.002	0.61	2.10	29.8	<0.2	<10	450	0.92	0.29	0.34	0.69	24.7	20.7	24
ZZ31304		0.25	0.006	0.57	1.78	27.0	<0.2	<10	500	0.85	0.31	0.67	0.93	30.3	10.0	27
ZZ31305		0.23	0.001	0.18	1.49	10.8	<0.2	<10	220	0.43	0.25	0.13	0.47	24.9	4.7	22
ZZ31306		0.20	0.002	0.33	1.20	17.2	<0.2	<10	330	0.46	0.19	0.63	0.43	23.3	6.9	21
ZZ31307		0.20	0.005	0.87	1.47	23.2	<0.2	<10	530	0.83	0.27	0.66	1.88	28.1	8.1	24
ZZ31308		0.19	0.004	0.56	1.39	10.0	<0.2	<10	420	0.52	0.31	0.60	1.28	24.3	5.4	24
ZZ31309		0.23	0.003	0.31	1.43	12.4	<0.2	<10	350	0.54	0.26	0.49	0.68	28.1	6.4	26
ZZ31310		0.30	0.002	0.24	1.44	26.5	<0.2	<10	400	0.47	0.27	0.61	0.75	26.4	9.3	27
ZZ31311		0.24	0.003	0.84	1.61	17.8	<0.2	<10	570	0.68	0.22	0.91	0.83	19.80	8.0	20
ZZ31312		0.23	0.003	0.83	1.67	31.7	<0.2	<10	560	0.74	0.27	1.23	1.04	21.0	6.7	24
ZZ31313		0.22	0.001	0.28	0.77	8.3	<0.2	<10	270	0.40	0.20	0.79	0.38	19.00	3.9	11
ZZ31314		0.21	0.002	0.35	0.99	10.9	<0.2	<10	360	0.51	0.26	1.23	0.46	27.4	5.4	15
ZZ31315		0.30	<0.001	0.45	0.96	20.7	<0.2	<10	340	0.52	0.32	0.96	0.76	23.7	5.0	16
ZZ31316		0.26	0.002	0.24	1.22	18.0	<0.2	<10	200	0.30	0.29	0.12	0.21	23.3	4.6	19
ZZ31317		0.27	<0.001	0.13	0.98	6.6	<0.2	<10	140	0.20	0.17	0.19	0.15	16.70	3.6	14
ZZ31318		0.25	<0.001	0.27	1.22	11.4	<0.2	<10	130	0.32	0.20	0.31	0.13	20.2	5.5	17
ZZ31319		0.27	<0.001	0.10	0.93	4.6	<0.2	<10	100	0.21	0.19	0.19	0.10	13.45	3.3	10
ZZ31320		0.24	0.001	0.20	1.33	10.9	<0.2	<10	230	0.54	0.21	0.30	0.11	25.9	5.4	17
ZZ31321		0.26	<0.001	0.25	1.33	16.2	<0.2	<10	270	0.33	0.24	0.22	0.27	22.5	5.4	19
ZZ31322		0.30	<0.001	0.57	0.95	12.2	<0.2	<10	340	0.60	0.25	1.30	0.44	27.4	6.6	15
ZZ31323		0.36	0.001	0.47	0.52	36	<0.2	10	130	0.33	0.24	13.25	1.28	22.3	11.3	6
ZZ31324		0.24	0.006	1.00	2.05	22.6	<0.2	<10	180	0.86	0.35	0.12	0.25	21.0	6.9	24
ZZ31325		0.25	0.005	0.52	1.08	26.0	<0.2	<10	280	0.43	0.36	0.04	0.19	20.5	4.7	18
ZZ31326		0.25	0.001	0.35	0.73	12.5	<0.2	<10	320	0.25	0.26	0.04	0.19	18.95	2.3	13
ZZ31327		0.15	<0.001	1.00	0.65	6.1	<0.2	<10	200	0.21	0.13	0.13	0.23	10.50	5.6	8
ZZ31328		0.19	<0.001	1.07	1.10	4.7	<0.2	<10	110	0.72	0.17	0.20	0.27	8.02	6.8	9
ZZ31329		0.22	<0.001	0.19	1.37	14.0	<0.2	<10	190	0.56	0.23	0.74	0.28	29.4	8.1	19
ZZ31330		0.17	<0.001	0.16	1.58	10.0	<0.2	<10	320	0.51	0.23	0.47	0.23	26.1	7.0	23
ZZ31331		0.20	<0.001	0.08	0.83	4.0	<0.2	<10	180	0.31	0.15	1.40	0.18	17.90	5.1	10
ZZ31332		0.28	0.002	0.15	1.01	6.1	<0.2	<10	110	0.51	0.16	1.06	0.27	35.7	16.3	18
ZZ31333		0.25	<0.001	0.10	1.64	6.2	<0.2	<10	270	0.45	0.23	0.45	0.16	20.6	6.6	19
ZZ31334		0.27	0.001	0.15	1.53	8.9	<0.2	<10	330	0.47	0.21	0.53	0.11	22.7	8.0	24
ZZ31335		0.19	<0.001	0.27	0.97	7.2	<0.2	<10	130	0.42	0.25	0.64	0.16	32.5	6.3	16
ZZ31336		0.22	0.001	0.09	1.20	7.6	<0.2	<10	200	0.53	0.23	0.49	0.23	27.5	6.4	18
ZZ31337		0.19	0.001	0.20	1.09	5.6	<0.2	<10	140	0.50	0.27	1.23	0.30	29.6	7.4	12
ZZ31338		0.25	<0.001	0.06	0.93	7.9	<0.2	<10	170	0.23	0.23	0.25	0.17	17.25	3.8	13



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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
ZZ31299		3.11	30.1	1.65	4.22	<0.05	<0.02	0.09	0.026	0.08	8.3	13.7	0.36	233	2.21
ZZ31300		3.97	45.5	1.51	3.82	<0.05	<0.02	0.04	0.018	0.08	8.5	10.2	0.26	108	2.34
ZZ31301		4.72	66.6	2.02	6.19	0.07	0.05	0.13	0.040	0.11	16.0	24.9	0.60	128	2.79
ZZ31302		1.59	16.9	1.18	4.72	<0.05	<0.02	0.02	0.012	0.04	10.2	7.6	0.17	77	1.93
ZZ31303		3.68	31.1	2.12	5.88	<0.05	0.03	0.16	0.030	0.07	11.1	18.6	0.44	1570	5.34
ZZ31304		2.65	61.5	2.43	5.50	0.05	0.05	0.21	0.031	0.07	16.6	16.4	0.50	297	2.65
ZZ31305		1.51	13.7	2.11	5.72	<0.05	<0.02	0.04	0.022	0.05	12.7	13.2	0.31	140	1.43
ZZ31306		2.23	22.7	1.65	4.08	0.05	0.04	0.12	0.027	0.07	12.0	16.2	0.49	213	1.91
ZZ31307		2.28	51.3	2.34	4.70	0.05	0.04	0.37	0.027	0.06	15.5	13.9	0.38	239	3.30
ZZ31308		2.02	29.7	1.74	5.06	0.05	0.02	0.21	0.023	0.06	13.8	13.8	0.41	133	1.31
ZZ31309		2.14	31.5	1.87	4.94	<0.05	0.03	0.13	0.028	0.07	15.5	17.7	0.49	188	1.37
ZZ31310		3.24	17.6	2.13	5.15	<0.05	0.03	0.07	0.021	0.08	14.2	27.3	0.69	359	2.07
ZZ31311		2.41	38.7	1.91	4.45	<0.05	0.04	0.22	0.023	0.08	12.1	12.5	0.35	374	2.49
ZZ31312		3.08	42.2	1.90	4.90	0.05	0.07	0.20	0.029	0.09	12.3	21.5	0.51	266	3.80
ZZ31313		0.83	13.9	1.07	2.49	<0.05	0.04	0.05	0.012	0.03	11.5	6.3	0.23	272	0.29
ZZ31314		0.93	19.8	1.43	3.05	0.05	0.05	0.06	0.022	0.04	15.8	8.8	0.34	455	0.20
ZZ31315		0.91	16.6	1.45	2.93	0.05	0.04	0.07	0.020	0.06	15.8	8.2	0.34	392	0.56
ZZ31316		1.29	12.3	1.85	4.01	<0.05	0.02	0.03	0.022	0.04	12.3	11.6	0.31	152	1.51
ZZ31317		1.45	7.1	1.42	3.42	<0.05	0.02	0.01	0.013	0.06	8.6	8.2	0.32	155	0.73
ZZ31318		1.95	11.7	1.80	3.66	<0.05	<0.02	0.02	0.021	0.06	9.1	23.9	1.84	312	1.04
ZZ31319		0.73	8.1	1.17	3.31	<0.05	<0.02	0.01	0.021	0.09	6.2	8.1	0.31	190	0.50
ZZ31320		1.57	16.7	1.62	4.41	<0.05	<0.02	0.02	0.015	0.04	19.4	9.3	0.23	250	0.83
ZZ31321		0.94	21.3	1.80	5.20	<0.05	<0.02	0.02	0.017	0.06	12.7	17.7	0.33	164	1.30
ZZ31322		1.41	36.6	1.73	3.13	0.05	0.04	0.06	0.025	0.03	15.6	11.7	0.75	792	0.56
ZZ31323		1.76	41.0	2.88	1.88	0.08	0.04	0.05	0.028	0.04	12.4	8.9	0.69	349	0.60
ZZ31324		2.09	133.0	2.42	3.71	<0.05	0.05	0.10	0.058	0.06	11.7	21.6	0.29	115	2.11
ZZ31325		1.66	29.3	2.08	3.97	<0.05	0.02	0.03	0.025	0.05	11.0	11.6	0.16	67	2.04
ZZ31326		1.59	19.1	1.70	4.26	<0.05	<0.02	0.01	0.015	0.03	10.6	6.2	0.08	47	1.55
ZZ31327		0.86	18.6	1.20	2.93	<0.05	<0.02	0.03	0.012	0.07	5.3	5.2	0.09	271	0.94
ZZ31328		1.69	29.1	1.62	3.13	<0.05	<0.02	0.02	0.020	0.06	4.7	10.8	0.17	114	0.81
ZZ31329		0.76	22.9	2.20	4.43	0.05	0.04	0.01	0.025	0.06	12.8	10.7	0.33	222	1.13
ZZ31330		1.01	19.7	2.04	4.80	<0.05	0.04	0.01	0.027	0.09	11.7	8.6	0.30	398	0.75
ZZ31331		0.42	15.3	1.47	2.66	<0.05	0.05	0.01	0.017	0.09	9.0	4.7	0.20	240	0.52
ZZ31332		0.47	19.1	4.10	3.15	0.07	0.04	0.02	0.027	0.13	15.0	6.5	0.41	328	0.84
ZZ31333		1.29	11.6	2.14	4.97	<0.05	0.03	0.01	0.024	0.06	9.7	8.8	0.28	204	0.91
ZZ31334		1.48	13.3	2.29	4.82	<0.05	0.02	0.02	0.023	0.05	10.4	11.5	0.50	312	0.90
ZZ31335		0.67	10.4	1.70	2.97	0.06	0.04	0.02	0.030	0.03	11.8	6.6	0.25	317	0.87
ZZ31336		0.94	9.5	1.82	3.55	0.05	0.04	0.01	0.031	0.06	9.3	7.3	0.36	261	0.73
ZZ31337		0.64	18.6	2.00	3.44	0.08	0.03	0.02	0.034	0.04	13.3	6.7	0.21	250	0.78
ZZ31338		0.71	7.7	1.27	2.95	<0.05	0.02	0.01	0.014	0.08	7.5	8.0	0.22	130	0.87



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		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
ZZ31299		0.51	19.5	820	18.8	14.2	0.001	0.02	2.09	2.5	1.5	1.1	33.3	<0.01	0.03
ZZ31300		0.26	21.1	950	11.0	12.7	0.001	0.03	1.35	1.0	1.3	0.6	43.9	<0.01	0.04
ZZ31301		1.03	27.2	1100	32.9	22.4	0.006	0.06	3.29	4.6	6.2	1.8	52.3	<0.01	0.03
ZZ31302		0.56	9.0	340	11.5	8.7	<0.001	<0.01	1.21	1.0	1.0	1.1	16.8	<0.01	0.04
ZZ31303		0.50	23.3	1320	23.3	15.4	0.007	0.07	2.11	1.9	7.3	1.0	30.6	<0.01	0.04
ZZ31304		0.94	32.5	1220	19.4	15.4	0.003	0.05	2.37	3.9	3.6	0.9	40.0	<0.01	0.03
ZZ31305		1.20	12.7	390	13.5	10.0	<0.001	<0.01	0.73	2.1	1.1	0.7	13.0	<0.01	0.02
ZZ31306		0.84	21.6	1000	11.5	10.9	0.002	0.02	1.62	2.8	2.6	0.7	38.6	<0.01	0.02
ZZ31307		0.68	30.7	1220	15.6	16.7	0.011	0.08	2.50	3.3	6.4	0.8	38.7	<0.01	0.06
ZZ31308		0.84	18.1	960	15.2	13.8	0.005	0.05	1.08	3.1	3.1	0.7	32.9	<0.01	0.02
ZZ31309		0.97	23.6	830	15.1	12.8	0.002	0.03	1.24	3.5	2.0	0.8	34.5	<0.01	0.02
ZZ31310		1.02	23.0	910	15.0	13.4	0.001	0.02	1.42	3.6	2.3	0.9	38.7	<0.01	0.02
ZZ31311		0.74	26.0	950	12.2	13.0	0.004	0.07	1.95	3.3	2.9	0.7	51.0	<0.01	0.02
ZZ31312		0.72	30.4	1160	17.3	14.2	0.006	0.09	2.49	3.5	3.7	1.1	64.0	<0.01	0.04
ZZ31313		0.45	9.9	710	6.7	4.7	<0.001	0.04	0.99	1.6	0.9	0.4	23.8	<0.01	0.02
ZZ31314		0.60	16.1	660	9.6	6.3	<0.001	0.03	1.10	2.5	1.3	0.5	28.5	<0.01	0.02
ZZ31315		0.43	16.1	810	19.0	6.6	<0.001	0.03	1.25	2.1	1.1	0.5	27.9	<0.01	0.01
ZZ31316		0.91	14.8	330	11.8	8.0	<0.001	<0.01	1.58	2.1	0.9	0.6	10.5	<0.01	0.03
ZZ31317		0.84	9.6	140	7.3	10.2	<0.001	<0.01	0.65	1.5	0.3	0.6	12.1	<0.01	0.01
ZZ31318		0.63	14.6	330	9.4	10.9	<0.001	<0.01	0.99	2.1	0.7	0.6	15.1	<0.01	0.02
ZZ31319		0.58	6.9	260	12.2	7.4	<0.001	0.01	0.48	1.2	0.2	0.6	12.2	<0.01	<0.01
ZZ31320		0.76	11.6	360	9.9	8.7	<0.001	0.01	0.57	1.9	0.7	0.5	15.3	<0.01	0.01
ZZ31321		0.80	16.0	300	11.3	11.6	<0.001	<0.01	0.77	1.8	0.5	0.7	16.3	<0.01	0.02
ZZ31322		0.47	30.3	580	9.8	6.1	0.001	0.05	1.54	2.8	2.3	0.6	28.0	<0.01	0.02
ZZ31323		0.27	51.0	500	12.7	4.5	<0.001	0.12	1.14	1.4	1.9	0.4	171.0	<0.01	0.03
ZZ31324		0.91	35.7	800	12.0	11.7	0.003	0.02	2.06	2.8	3.1	0.6	11.8	<0.01	0.06
ZZ31325		0.81	20.5	250	9.5	8.2	<0.001	0.01	2.31	2.0	1.4	0.6	6.4	<0.01	0.04
ZZ31326		0.87	11.3	190	8.0	7.5	<0.001	<0.01	1.37	1.3	0.5	0.7	6.3	<0.01	0.03
ZZ31327		0.38	8.9	370	5.5	8.4	<0.001	0.02	0.79	0.6	0.9	0.3	16.1	<0.01	0.01
ZZ31328		0.52	46.6	420	5.9	11.3	<0.001	0.02	0.87	1.0	0.9	0.4	19.2	<0.01	0.02
ZZ31329		0.74	23.5	200	10.2	6.8	<0.001	0.01	1.13	3.0	0.8	0.8	45.5	<0.01	0.02
ZZ31330		0.78	15.5	260	15.4	11.6	<0.001	<0.01	0.57	3.2	0.4	0.8	40.8	<0.01	0.01
ZZ31331		0.42	12.8	230	8.6	5.0	<0.001	0.02	0.73	1.5	0.5	0.3	31.1	<0.01	0.01
ZZ31332		0.65	108.5	190	11.4	7.0	<0.001	0.01	0.61	3.1	0.9	0.5	42.5	<0.01	<0.01
ZZ31333		0.85	18.5	170	11.7	12.6	<0.001	<0.01	0.62	2.4	0.6	0.6	27.9	<0.01	0.01
ZZ31334		0.72	20.7	350	10.5	11.1	<0.001	<0.01	0.50	2.7	0.6	0.8	24.0	<0.01	0.03
ZZ31335		0.70	18.9	160	12.1	4.7	<0.001	0.02	0.69	2.8	0.6	0.5	34.7	<0.01	0.02
ZZ31336		0.85	23.9	120	11.8	8.2	<0.001	0.02	0.98	3.1	0.3	0.7	29.6	<0.01	0.02
ZZ31337		0.62	29.0	220	19.3	5.1	<0.001	0.03	0.52	1.9	0.7	0.4	62.7	<0.01	0.02
ZZ31338		0.73	13.0	210	7.9	10.8	<0.001	0.02	0.80	1.6	0.3	0.4	16.6	<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
ZZ31299		0.028	0.21	1.33	57	0.28	4.81	100	<0.5
ZZ31300		0.026	0.15	1.62	47	0.21	4.67	74	<0.5
ZZ31301		0.033	0.30	2.87	78	0.43	9.79	142	1.8
ZZ31302		0.028	0.14	0.67	47	0.33	2.71	49	<0.5
ZZ31303		0.018	0.33	2.07	66	0.25	6.73	125	0.7
ZZ31304		0.026	0.23	3.61	59	0.29	13.90	120	1.4
ZZ31305		0.041	0.16	0.77	51	0.39	3.81	54	<0.5
ZZ31306		0.036	0.22	1.02	49	0.18	7.13	92	1.4
ZZ31307		0.023	0.27	4.61	54	0.17	14.85	119	1.0
ZZ31308		0.031	0.24	2.19	49	0.33	7.82	98	<0.5
ZZ31309		0.035	0.23	1.78	53	0.29	8.23	92	1.0
ZZ31310		0.044	0.24	1.38	64	0.82	6.27	128	1.1
ZZ31311		0.023	0.27	2.34	52	0.18	11.10	120	1.5
ZZ31312		0.021	0.28	5.24	68	0.27	11.75	116	2.0
ZZ31313		0.020	0.09	1.26	32	0.13	9.94	55	1.3
ZZ31314		0.021	0.10	1.54	37	0.13	14.35	67	1.5
ZZ31315		0.017	0.11	1.27	40	0.12	16.45	93	1.1
ZZ31316		0.026	0.15	0.56	52	0.30	3.26	69	0.6
ZZ31317		0.023	0.11	0.32	38	0.21	1.80	28	0.6
ZZ31318		0.021	0.12	0.48	42	0.24	2.74	43	0.5
ZZ31319		0.026	0.08	0.36	33	0.30	2.17	26	<0.5
ZZ31320		0.026	0.16	0.99	50	0.70	7.26	40	<0.5
ZZ31321		0.023	0.14	0.69	53	0.29	3.47	67	<0.5
ZZ31322		0.015	0.13	1.42	41	0.16	14.60	105	1.3
ZZ31323		0.012	0.07	1.06	19	0.19	14.05	120	1.1
ZZ31324		0.023	0.27	1.59	45	0.33	3.69	115	1.6
ZZ31325		0.023	0.15	0.61	49	0.27	2.97	63	1.0
ZZ31326		0.026	0.13	0.44	51	0.22	2.07	37	0.5
ZZ31327		0.026	0.08	0.32	30	0.19	1.27	43	<0.5
ZZ31328		0.032	0.05	0.82	33	0.16	3.46	113	<0.5
ZZ31329		0.026	0.08	1.30	42	0.64	8.09	58	1.2
ZZ31330		0.027	0.09	0.84	55	0.24	4.90	70	1.2
ZZ31331		0.025	0.05	0.38	26	0.10	5.94	35	1.3
ZZ31332		0.030	0.06	0.62	32	0.18	12.95	118	1.5
ZZ31333		0.026	0.10	0.54	46	0.22	2.78	59	0.8
ZZ31334		0.028	0.13	0.57	50	0.23	3.68	77	0.5
ZZ31335		0.023	0.08	0.70	27	0.23	7.80	49	1.1
ZZ31336		0.025	0.08	0.72	43	0.19	5.55	85	1.5
ZZ31337		0.020	0.05	0.50	21	0.19	12.85	94	0.9
ZZ31338		0.018	0.08	0.43	34	0.30	2.14	51	0.8



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.2	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
ZZ31339		0.24	0.001	0.07	0.93	6.1	<0.2	<10	140	0.22	0.21	0.27	0.17	19.10	3.8	13
ZZ31340		0.18	<0.001	0.05	0.96	4.4	<0.2	<10	130	0.30	0.16	0.41	0.53	13.60	3.6	10
ZZ31341		0.20	0.002	0.16	1.28	10.5	<0.2	<10	250	0.43	0.28	0.53	0.19	24.6	5.6	17
ZZ31342		0.22	0.002	0.22	1.38	7.1	<0.2	<10	220	0.67	0.25	0.88	0.16	31.1	7.2	20
ZZ31343		0.25	<0.001	0.09	1.33	8.9	<0.2	<10	230	0.31	0.23	0.19	0.55	16.05	5.6	18
ZZ31344		0.33	<0.001	0.16	0.96	6.9	<0.2	<10	210	0.33	0.24	0.74	0.13	24.1	6.1	15
ZZ31345		0.21	<0.001	0.18	0.91	3.7	<0.2	<10	120	0.35	0.18	0.69	0.19	18.00	5.1	10
ZZ31346		0.21	<0.001	0.15	1.03	5.2	<0.2	<10	130	0.31	0.23	0.22	0.29	15.05	3.5	13
ZZ31347		0.22	0.001	0.11	1.52	11.4	<0.2	<10	200	0.58	0.26	0.39	0.25	35.0	5.7	19
ZZ31348		0.19	0.001	0.36	1.29	11.3	<0.2	<10	130	0.41	0.25	0.14	0.30	17.25	4.7	16





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**CERTIFICATE OF ANALYSIS WH12195452**

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
ZZ31339		0.53	9.5	1.23	2.80	<0.05	0.02	0.01	0.016	0.06	7.5	6.4	0.19	158	0.78
ZZ31340		0.67	7.1	1.17	3.21	<0.05	0.03	0.01	0.012	0.08	6.3	4.1	0.12	159	0.56
ZZ31341		0.66	12.5	1.77	3.87	<0.05	0.04	0.02	0.022	0.10	9.6	9.8	0.27	222	1.03
ZZ31342		0.60	12.3	2.07	3.89	0.06	0.05	0.02	0.030	0.05	13.4	7.5	0.30	264	0.69
ZZ31343		1.15	9.7	1.66	4.23	<0.05	0.03	0.02	0.018	0.05	7.8	10.4	0.26	265	1.34
ZZ31344		0.37	10.2	1.70	2.90	0.06	0.06	0.02	0.020	0.14	8.5	6.7	0.27	335	0.56
ZZ31345		0.62	12.1	1.21	2.53	0.05	0.06	0.02	0.014	0.12	8.2	4.5	0.16	323	0.45
ZZ31346		1.41	9.4	1.58	4.19	<0.05	<0.02	0.02	0.014	0.15	7.6	6.7	0.16	108	1.12
ZZ31347		0.95	9.7	1.83	3.51	0.06	0.03	0.02	0.024	0.13	11.2	10.7	0.26	299	0.89
ZZ31348		1.47	14.7	1.48	3.27	<0.05	0.03	0.03	0.026	0.04	8.6	9.9	0.25	112	1.10



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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
ZZ31339		0.71	11.2	190	8.9	5.9	<0.001	0.02	0.58	1.6	0.3	0.4	19.5	<0.01	0.02	1.8
ZZ31340		0.75	8.7	170	6.5	11.1	<0.001	0.02	0.32	1.4	0.3	0.3	18.1	<0.01	0.02	1.2
ZZ31341		0.84	17.9	290	13.9	8.6	<0.001	0.02	0.64	2.5	0.4	0.5	24.1	<0.01	0.03	2.7
ZZ31342		0.92	19.4	280	12.5	6.0	<0.001	0.02	0.50	3.9	0.6	0.5	34.4	<0.01	0.02	4.8
ZZ31343		1.03	16.2	160	8.9	9.7	<0.001	0.01	0.70	2.2	0.4	0.5	14.7	<0.01	0.03	2.5
ZZ31344		0.84	14.2	200	12.4	6.1	<0.001	0.03	0.36	2.8	0.4	0.4	27.8	<0.01	0.02	3.2
ZZ31345		0.60	12.9	310	9.1	8.0	<0.001	0.04	0.34	1.7	0.4	0.3	24.5	<0.01	0.02	2.0
ZZ31346		1.03	12.7	290	10.1	19.9	<0.001	0.02	0.36	1.3	0.2	0.5	25.3	<0.01	0.02	0.8
ZZ31347		0.85	17.1	450	12.5	12.1	<0.001	0.02	0.73	2.9	0.5	0.5	17.7	<0.01	0.03	2.1
ZZ31348		0.98	24.5	440	13.9	7.5	<0.001	0.01	1.09	2.0	0.5	0.5	14.1	<0.01	0.03	2.9



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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
ZZ31339		0.019	0.07	0.51	30	0.25	2.89	42	0.7
ZZ31340		0.028	0.08	0.39	30	0.17	2.24	118	1.0
ZZ31341		0.020	0.10	1.10	39	0.30	4.92	91	1.1
ZZ31342		0.027	0.06	2.20	40	0.20	15.00	49	1.3
ZZ31343		0.026	0.14	0.52	48	0.27	2.45	295	1.2
ZZ31344		0.028	0.05	0.54	29	0.19	4.93	40	1.9
ZZ31345		0.022	0.05	0.97	25	0.17	8.77	37	1.9
ZZ31346		0.028	0.09	0.53	43	0.46	2.23	64	<0.5
ZZ31347		0.020	0.11	0.64	40	0.27	10.45	55	0.9
ZZ31348		0.020	0.13	0.58	37	0.30	3.16	108	0.8



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Method	CERTIFICATE COMMENTS
ME-MS41	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS41	Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).