



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: 2-AUG-2012  
Account: RANSIL

**CERTIFICATE WH12172342**

Project: Keg-Group 7

P.O. No.:

This report is for 203 Soil samples submitted to our lab in Whitehorse, YT, Canada on 23-JUL-2012.

The following have access to data associated with this certificate:

MATT DUMALA

JOAN MARIACHER

**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 WH12172342**

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
ZZ45501		0.22	0.002	0.12	2.08	9.8	<0.2	<10	140	1.23	0.95	0.13	0.17	46.8	7.3	23
ZZ45502		0.24	0.004	0.17	1.80	14.9	<0.2	<10	170	0.74	0.33	0.14	0.43	38.0	6.5	18
ZZ45503		0.22	0.004	0.20	2.75	65.3	<0.2	<10	150	1.46	1.89	0.10	0.15	41.0	7.7	45
ZZ45504		0.26	0.005	0.19	2.70	53.3	<0.2	<10	140	1.61	3.23	0.10	0.17	49.3	20.4	37
ZZ45505		0.24	0.007	0.24	1.86	24.3	<0.2	<10	80	0.78	2.10	0.08	0.07	26.6	6.5	23
ZZ45506		0.41	0.003	0.31	1.48	20.9	<0.2	<10	80	0.87	1.81	0.09	0.06	29.8	7.1	15
ZZ45507		0.29	0.004	0.23	2.04	35.3	<0.2	<10	140	0.91	1.68	0.12	0.14	35.9	8.1	27
ZZ45508		0.17	0.008	0.15	2.14	47.4	<0.2	<10	100	1.31	2.22	0.07	0.16	48.5	23.0	53
ZZ45509		0.39	0.005	0.18	2.30	53.2	<0.2	<10	140	1.57	2.58	0.10	0.26	51.9	24.2	28
ZZ45510		0.17	0.004	0.29	2.12	48.7	<0.2	<10	120	1.56	4.43	0.10	0.24	40.9	20.7	22
ZZ45511		0.31	0.003	0.16	1.95	33.9	<0.2	<10	150	0.93	1.34	0.14	0.23	36.6	12.1	17
ZZ45512		0.26	0.003	0.13	1.51	57.3	<0.2	<10	140	0.84	1.48	0.18	0.53	42.0	11.6	18
ZZ45513		0.25	0.004	0.22	1.93	56.0	<0.2	<10	140	0.99	1.71	0.14	0.16	41.6	11.1	19
ZZ45514		0.19	0.002	0.37	1.75	43.0	<0.2	<10	140	0.92	1.49	0.14	0.40	27.9	8.1	15
ZZ45515		0.15	<0.001	0.23	0.42	8.7	<0.2	<10	40	0.10	0.26	0.06	0.47	10.50	1.0	5
ZZ45516		0.20	0.001	1.73	3.80	241	<0.2	<10	230	2.48	1.11	0.38	1.13	47.4	14.6	58
ZZ45517		0.22	<0.001	0.02	0.31	0.7	<0.2	<10	20	<0.05	0.02	0.08	0.03	2.22	0.5	1
ZZ45518		0.36	0.001	0.30	2.85	11.4	<0.2	<10	200	0.89	0.50	0.70	0.37	35.0	8.2	33
ZZ45519		0.34	0.001	0.44	2.37	16.7	<0.2	<10	280	0.97	0.41	0.48	0.29	40.8	7.3	25
ZZ45520		0.36	0.002	0.17	2.01	17.3	<0.2	<10	190	0.81	0.35	0.57	0.42	52.4	8.6	27
ZZ45521		0.35	0.002	0.24	2.00	7.5	<0.2	<10	210	0.88	0.32	0.46	0.33	43.5	6.9	25
ZZ45522		0.22	0.001	0.23	1.73	9.5	<0.2	<10	130	0.69	0.23	0.58	0.26	21.5	5.1	15
ZZ45523		0.22	0.005	0.22	1.96	89.2	<0.2	<10	110	0.69	1.41	0.11	0.66	33.4	5.9	28
ZZ45524		0.18	0.003	0.83	3.03	55.5	<0.2	<10	220	1.33	0.88	0.73	0.47	41.9	8.9	35
ZZ45525		0.21	0.011	1.31	4.27	235	<0.2	<10	290	2.01	0.71	0.49	1.10	30.3	13.0	35
ZZ45526		0.25	0.038	2.70	1.28	511	<0.2	<10	90	1.23	1.48	0.21	4.89	90.8	19.8	22
ZZ45527		0.20	<0.001	0.45	1.65	61.4	<0.2	<10	120	0.65	0.59	0.13	0.83	24.8	5.9	22
ZZ45528		0.19	<0.001	0.66	1.10	48.3	<0.2	<10	70	0.64	0.48	0.23	0.16	17.55	4.4	8
ZZ45529		0.32	0.004	0.80	2.21	88.2	<0.2	<10	170	1.16	1.22	0.19	0.35	45.8	10.2	27
ZZ45530		0.34	0.001	0.61	2.41	78.0	<0.2	<10	170	1.30	1.35	0.25	0.35	52.9	10.9	31
ZZ45531		0.26	0.001	0.38	2.18	37.3	<0.2	<10	180	1.15	0.90	0.25	0.36	46.1	13.0	31
ZZ45532		0.37	0.003	0.38	2.36	40.0	<0.2	<10	200	1.36	1.00	0.40	0.33	50.8	12.1	34
ZZ45533		0.24	0.001	0.78	2.34	69.5	<0.2	<10	190	1.32	0.70	0.88	0.38	25.6	6.4	23
ZZ45534		0.27	0.002	0.55	3.10	89.7	<0.2	<10	200	1.65	0.71	0.78	0.60	43.9	10.9	48
ZZ45535		0.21	<0.001	0.27	0.48	14.1	<0.2	<10	30	0.22	0.05	0.24	0.08	4.35	2.6	4
ZZ45536		0.24	<0.001	0.15	0.76	10.0	<0.2	<10	60	0.29	0.09	0.49	0.17	7.99	2.9	4
ZZ45537		0.27	0.001	0.09	1.76	22.5	<0.2	<10	210	0.62	0.37	0.51	0.35	28.5	6.0	21
ZZ45538		0.25	<0.001	0.09	1.61	14.2	<0.2	<10	160	0.78	0.40	0.37	0.34	28.9	4.4	21
ZZ45539		0.18	0.004	0.25	1.71	39.2	<0.2	<10	180	0.81	0.60	0.63	0.76	44.3	9.8	21
ZZ45540		0.36	<0.001	0.70	3.68	26.6	<0.2	<10	420	1.78	0.53	0.85	0.39	36.2	10.6	38



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**CERTIFICATE OF ANALYSIS WH12172342**

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
ZZ45501		4.40	20.8	3.32	7.94	0.07	<0.02	0.05	0.044	0.28	21.3	29.9	0.59	487	0.94
ZZ45502		2.63	12.1	2.56	5.01	0.05	0.02	0.08	0.030	0.10	18.6	20.6	0.36	414	0.98
ZZ45503		15.85	65.2	5.66	10.55	0.09	<0.02	0.07	0.051	0.68	21.0	56.7	0.74	502	1.03
ZZ45504		24.3	70.8	5.61	9.91	0.09	0.02	0.02	0.052	0.68	23.8	66.3	0.79	485	0.67
ZZ45505		9.59	36.0	4.25	7.59	0.06	<0.02	0.03	0.035	0.27	13.4	24.2	0.40	266	0.52
ZZ45506		5.52	28.6	2.50	5.48	0.05	<0.02	0.03	0.029	0.17	13.7	18.5	0.27	253	0.45
ZZ45507		6.98	27.9	4.34	7.48	0.06	<0.02	0.04	0.036	0.30	17.4	27.0	0.45	393	0.65
ZZ45508		7.80	35.0	5.80	8.08	0.11	<0.02	0.05	0.050	0.45	22.0	31.7	0.44	784	2.57
ZZ45509		9.40	36.4	4.40	7.72	0.07	<0.02	0.01	0.044	0.24	25.3	36.2	0.53	712	0.95
ZZ45510		8.21	41.0	4.18	7.20	0.06	<0.02	0.03	0.050	0.17	19.2	29.1	0.43	711	1.11
ZZ45511		5.56	30.5	2.89	6.29	0.05	<0.02	0.01	0.032	0.14	19.0	23.0	0.39	510	0.92
ZZ45512		4.90	21.6	2.88	5.66	0.06	<0.02	0.06	0.032	0.22	19.9	23.0	0.38	587	0.76
ZZ45513		6.31	26.5	3.08	6.57	0.05	<0.02	0.03	0.034	0.18	20.8	24.4	0.40	580	0.89
ZZ45514		5.61	22.8	2.41	5.43	<0.05	<0.02	0.01	0.028	0.11	13.7	18.8	0.30	688	0.86
ZZ45515		1.54	4.0	0.68	3.87	<0.05	<0.02	<0.01	0.011	0.04	4.9	2.0	0.07	36	0.65
ZZ45516		12.75	54.2	4.38	12.65	0.07	0.02	0.05	0.153	0.36	23.0	74.8	1.15	819	1.42
ZZ45517		0.10	2.3	0.21	0.78	<0.05	0.02	<0.01	0.006	0.03	1.0	0.5	0.03	16	0.07
ZZ45518		4.12	23.6	2.58	7.88	0.07	0.03	0.01	0.036	0.22	17.9	36.3	0.74	288	0.40
ZZ45519		3.73	21.4	2.28	8.32	0.07	0.02	0.06	0.038	0.15	21.6	31.6	0.58	283	0.81
ZZ45520		5.14	21.1	2.27	7.92	0.13	0.12	0.02	0.029	0.29	26.3	31.2	0.74	375	0.42
ZZ45521		3.99	19.4	1.96	7.46	0.10	0.03	0.02	0.027	0.21	23.3	30.3	0.66	197	0.44
ZZ45522		2.21	30.1	1.30	5.78	0.06	0.04	0.03	0.013	0.08	13.5	16.0	0.33	234	0.48
ZZ45523		4.46	19.9	2.98	10.70	0.05	0.03	0.05	0.054	0.12	16.9	25.6	0.43	229	2.35
ZZ45524		7.59	38.0	3.19	10.35	0.09	0.06	0.05	0.059	0.29	25.7	43.6	0.87	419	1.86
ZZ45525		7.67	44.7	3.03	13.55	0.09	0.06	0.08	0.043	0.30	18.7	39.3	0.79	483	1.48
ZZ45526		8.56	227	6.82	7.79	0.15	0.06	0.05	0.290	0.12	58.9	23.7	0.43	637	51.5
ZZ45527		4.01	21.6	2.27	6.16	<0.05	<0.02	0.07	0.034	0.10	12.1	21.2	0.42	252	2.64
ZZ45528		4.00	21.7	1.35	3.78	<0.05	<0.02	0.03	0.025	0.03	10.9	9.1	0.14	78	0.60
ZZ45529		4.78	30.9	2.85	8.08	0.06	<0.02	0.04	0.056	0.10	21.9	32.3	0.65	338	2.37
ZZ45530		4.86	41.0	2.86	8.20	0.07	0.03	0.03	0.056	0.10	23.5	34.8	0.81	320	2.06
ZZ45531		4.79	25.2	2.64	7.90	0.08	0.03	0.03	0.041	0.10	22.0	39.3	0.84	410	1.41
ZZ45532		5.88	31.4	2.90	8.59	0.08	0.05	0.04	0.042	0.12	25.9	46.4	0.98	435	1.30
ZZ45533		6.67	50.6	1.98	7.41	0.07	0.07	0.03	0.032	0.09	26.5	26.9	0.54	275	1.02
ZZ45534		7.11	38.7	3.15	11.30	0.07	0.02	0.03	0.030	0.12	23.0	50.7	1.18	522	1.36
ZZ45535		0.51	10.7	0.92	2.38	<0.05	<0.02	<0.01	<0.005	0.02	3.0	1.9	0.07	71	0.24
ZZ45536		0.65	16.7	0.61	2.59	<0.05	0.04	0.01	0.006	0.02	4.6	2.4	0.06	140	0.35
ZZ45537		3.34	18.0	2.56	8.89	<0.05	<0.02	0.01	0.027	0.08	14.5	20.8	0.44	301	1.53
ZZ45538		3.87	14.4	1.98	7.88	0.05	<0.02	0.09	0.019	0.08	17.0	14.9	0.40	170	1.11
ZZ45539		3.63	22.8	2.10	6.30	0.09	0.05	0.02	0.029	0.17	21.9	26.5	0.70	430	0.95
ZZ45540		4.90	24.7	3.37	11.45	0.08	0.09	0.08	0.043	0.17	16.8	46.0	1.11	307	1.86



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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
ZZ45501		1.89	12.4	650	18.3	45.2	<0.001	0.05	0.70	4.9	0.3	2.3	12.6	<0.01	0.01
ZZ45502		1.10	13.5	620	15.9	15.7	<0.001	0.05	0.95	2.7	0.6	0.8	12.7	<0.01	0.04
ZZ45503		2.96	13.8	930	13.5	97.4	<0.001	0.30	0.52	6.9	0.8	3.3	13.2	<0.01	0.04
ZZ45504		2.47	21.4	810	13.8	95.5	<0.001	0.27	0.49	7.6	0.6	3.7	15.6	<0.01	0.03
ZZ45505		1.31	9.5	670	9.8	42.6	<0.001	0.12	0.31	4.1	0.3	1.8	11.3	<0.01	0.03
ZZ45506		1.01	8.6	650	9.5	28.8	<0.001	0.08	0.33	2.9	0.6	1.4	9.7	<0.01	0.03
ZZ45507		1.32	11.8	810	11.7	44.9	<0.001	0.11	0.46	4.2	0.5	1.8	14.4	<0.01	0.01
ZZ45508		1.66	27.2	750	13.1	59.5	<0.001	0.08	0.43	6.1	0.7	2.0	8.8	<0.01	0.03
ZZ45509		1.21	23.9	840	18.1	39.8	<0.001	0.05	0.87	5.0	0.8	1.9	13.2	<0.01	0.02
ZZ45510		0.90	28.0	920	27.0	30.4	<0.001	0.06	1.99	3.2	0.8	1.7	12.9	<0.01	0.04
ZZ45511		1.06	17.8	750	15.2	24.7	<0.001	0.04	1.21	3.3	0.7	1.2	13.8	<0.01	0.03
ZZ45512		0.92	14.0	660	15.3	32.5	<0.001	0.04	1.24	2.9	0.5	1.3	15.4	<0.01	0.02
ZZ45513		1.03	15.6	810	16.4	29.5	<0.001	0.05	1.21	3.3	0.7	1.4	13.5	<0.01	0.02
ZZ45514		0.51	12.6	780	20.3	21.3	<0.001	0.07	1.13	1.5	0.4	1.1	14.3	<0.01	0.02
ZZ45515		0.72	2.4	220	11.6	6.8	<0.001	0.03	1.95	0.6	<0.2	0.8	5.5	<0.01	0.02
ZZ45516		2.43	32.8	750	126.0	51.5	<0.001	0.04	20.4	6.7	0.8	2.3	22.6	<0.01	0.03
ZZ45517		0.14	0.6	260	0.8	1.3	<0.001	0.02	0.06	0.3	<0.2	<0.2	7.7	<0.01	0.02
ZZ45518		1.87	17.1	680	23.8	28.8	<0.001	0.07	2.48	4.0	0.4	1.0	30.6	<0.01	0.01
ZZ45519		1.83	18.8	670	17.4	28.7	<0.001	0.04	1.55	3.8	0.6	0.9	31.1	<0.01	0.03
ZZ45520		1.19	14.5	780	21.4	41.3	0.001	<0.01	1.95	5.1	0.8	1.1	38.2	<0.01	0.01
ZZ45521		2.12	15.3	750	18.7	32.9	0.001	0.01	1.52	4.6	0.5	1.1	29.2	<0.01	0.01
ZZ45522		1.17	8.4	860	12.7	9.9	<0.001	0.08	0.77	1.4	<0.2	0.5	28.1	<0.01	0.03
ZZ45523		2.66	14.9	480	42.3	20.5	<0.001	0.02	4.56	3.1	0.4	2.4	10.4	0.01	0.02
ZZ45524		2.14	25.5	790	46.8	42.6	<0.001	0.06	4.90	4.7	0.9	1.7	42.2	<0.01	0.03
ZZ45525		1.78	30.2	1220	27.7	48.1	<0.001	0.09	3.30	3.7	1.2	1.2	49.3	<0.01	0.04
ZZ45526		0.36	50.7	1630	112.0	13.4	0.001	0.10	39.7	5.1	4.2	1.1	35.8	<0.01	0.19
ZZ45527		0.87	16.0	890	35.4	14.9	<0.001	0.04	3.22	1.3	0.6	1.1	11.7	<0.01	0.01
ZZ45528		0.35	10.4	370	11.2	5.4	0.001	0.03	1.87	0.8	0.8	0.5	16.2	<0.01	0.02
ZZ45529		1.91	22.3	590	49.7	16.4	<0.001	0.02	7.97	3.3	1.0	2.0	18.6	0.01	0.03
ZZ45530		2.18	25.1	750	51.4	17.7	0.001	0.02	6.98	3.8	0.9	2.0	24.1	<0.01	0.02
ZZ45531		2.13	24.0	620	36.2	16.9	0.001	0.01	5.18	3.8	0.7	1.4	29.9	<0.01	0.01
ZZ45532		1.66	28.7	480	39.1	22.2	<0.001	<0.01	4.12	4.9	0.8	1.6	39.6	<0.01	0.01
ZZ45533		1.42	17.6	920	19.1	15.2	<0.001	0.08	2.64	2.3	1.9	1.1	49.3	<0.01	0.04
ZZ45534		1.89	26.0	890	23.7	21.1	<0.001	0.06	1.92	3.5	0.9	1.2	50.8	<0.01	0.03
ZZ45535		0.29	2.4	400	2.1	1.8	<0.001	0.03	0.41	0.4	0.4	0.2	16.1	<0.01	0.01
ZZ45536		0.49	2.6	610	3.5	2.5	<0.001	0.06	0.53	0.4	0.4	0.2	26.1	0.01	<0.01
ZZ45537		1.03	14.5	630	15.1	17.0	0.001	0.04	1.28	1.5	0.5	1.2	31.5	<0.01	0.02
ZZ45538		0.85	11.6	530	15.2	17.7	<0.001	0.04	0.83	1.1	0.5	0.9	24.2	<0.01	0.03
ZZ45539		1.48	18.3	830	24.9	25.0	<0.001	0.01	2.64	3.9	0.8	1.1	51.8	<0.01	0.01
ZZ45540		2.42	27.1	700	17.5	28.0	<0.001	0.06	1.24	6.0	0.4	1.3	53.0	<0.01	0.01



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**CERTIFICATE OF ANALYSIS WH12172342**

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
ZZ45501		0.111	0.34	2.18	49	0.53	6.79	73	<0.5
ZZ45502		0.051	0.19	0.99	40	0.38	5.17	67	0.6
ZZ45503		0.137	0.61	1.93	62	0.91	5.87	75	0.6
ZZ45504		0.150	0.70	2.14	59	1.52	7.78	91	0.7
ZZ45505		0.097	0.40	1.65	57	0.81	3.65	50	<0.5
ZZ45506		0.061	0.30	2.12	32	0.75	6.69	37	<0.5
ZZ45507		0.087	0.36	1.61	54	0.87	4.79	63	<0.5
ZZ45508		0.104	0.42	2.55	46	0.90	5.66	59	<0.5
ZZ45509		0.077	0.40	4.32	48	3.47	10.15	95	<0.5
ZZ45510		0.050	0.37	6.67	43	2.62	10.05	97	<0.5
ZZ45511		0.060	0.27	2.46	42	1.57	9.23	77	<0.5
ZZ45512		0.063	0.31	2.43	36	4.45	8.95	70	<0.5
ZZ45513		0.063	0.33	2.96	40	2.52	10.15	70	<0.5
ZZ45514		0.035	0.28	2.62	35	3.31	6.82	66	<0.5
ZZ45515		0.055	0.08	0.32	29	0.52	0.86	16	<0.5
ZZ45516		0.114	0.43	1.52	93	1.81	6.54	210	0.8
ZZ45517		0.019	<0.02	0.05	6	<0.05	0.41	4	0.5
ZZ45518		0.098	0.23	1.11	46	1.92	6.89	99	0.8
ZZ45519		0.063	0.25	1.46	43	1.08	8.27	89	0.8
ZZ45520		0.117	0.27	1.07	40	0.84	11.50	73	4.4
ZZ45521		0.098	0.24	1.12	41	1.03	9.48	79	1.2
ZZ45522		0.051	0.13	0.94	28	0.82	7.40	36	1.6
ZZ45523		0.090	0.18	1.00	65	0.78	4.03	86	1.6
ZZ45524		0.084	0.34	3.25	62	0.68	12.85	136	2.0
ZZ45525		0.064	0.32	5.17	55	0.78	13.15	190	1.8
ZZ45526		0.014	0.27	23.4	92	0.74	25.1	413	4.9
ZZ45527		0.043	0.18	1.26	46	0.49	3.99	81	<0.5
ZZ45528		0.033	0.10	1.43	31	0.29	11.45	32	<0.5
ZZ45529		0.063	0.21	1.38	53	0.80	8.44	87	0.5
ZZ45530		0.068	0.22	1.42	51	0.82	9.34	91	1.0
ZZ45531		0.073	0.20	1.19	46	0.84	9.75	80	1.0
ZZ45532		0.080	0.25	1.41	50	0.67	12.20	98	1.9
ZZ45533		0.051	0.19	3.11	39	0.36	26.0	91	2.0
ZZ45534		0.081	0.30	2.08	61	0.53	12.10	108	0.7
ZZ45535		0.042	0.06	0.41	30	0.05	1.84	15	0.5
ZZ45536		0.027	0.08	0.42	15	0.19	2.71	11	1.5
ZZ45537		0.040	0.20	0.94	50	0.36	4.75	69	<0.5
ZZ45538		0.041	0.18	0.72	46	0.50	5.19	40	<0.5
ZZ45539		0.062	0.19	1.70	37	0.76	11.60	80	1.9
ZZ45540		0.074	0.27	3.19	54	0.38	8.43	118	2.6



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**CERTIFICATE OF ANALYSIS WH12172342**

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
ZZ45541		0.26	0.001	0.13	1.38	11.9	<0.2	<10	100	0.72	0.80	0.13	0.22	30.4	5.5	12
ZZ45542		0.24	0.002	0.11	1.36	12.7	<0.2	<10	110	0.67	0.55	0.10	0.24	31.4	7.1	14
ZZ45543		0.24	0.004	0.12	1.22	8.4	<0.2	<10	80	0.59	0.59	0.09	0.18	23.4	4.3	14
ZZ45544		0.26	0.003	0.12	2.25	18.3	<0.2	<10	160	0.96	3.98	0.10	0.30	28.4	5.9	22
ZZ45545		0.36	0.002	0.12	1.06	6.5	<0.2	<10	190	0.63	0.79	0.39	0.32	63.5	6.2	12
ZZ45546		0.50	0.001	0.19	1.68	7.2	<0.2	<10	230	0.99	1.19	0.35	0.25	60.0	6.9	16
ZZ45547		0.24	0.001	0.17	1.94	14.0	<0.2	<10	140	0.85	1.10	0.23	0.29	48.8	8.2	17
ZZ45548		0.26	0.002	0.19	1.91	11.2	<0.2	<10	110	1.36	3.02	0.25	0.22	33.5	7.2	19
ZZ45549		0.37	<0.001	0.19	1.76	8.7	<0.2	<10	180	1.36	0.72	0.24	0.19	62.4	7.7	20
ZZ45550		0.17	0.001	0.26	0.84	1.6	<0.2	<10	80	0.83	0.36	0.10	0.16	25.4	1.8	4
ZZ45551		0.26	0.002	0.17	1.68	11.7	<0.2	<10	180	1.26	0.34	0.15	0.26	45.1	6.7	15
ZZ45552		0.29	0.002	0.20	2.24	21.9	<0.2	<10	130	1.19	0.54	0.14	0.47	43.8	6.5	15
ZZ45553		0.33	0.002	0.50	1.79	17.5	<0.2	<10	110	2.82	5.50	0.10	0.43	41.3	12.9	14
ZZ45554		0.30	0.001	0.14	1.71	12.2	<0.2	<10	180	0.70	0.28	0.12	0.29	36.4	5.9	15
ZZ45555		0.28	0.001	0.20	1.83	13.3	<0.2	<10	190	0.88	0.20	0.18	0.57	39.5	7.8	14
ZZ45556		0.19	0.003	0.16	1.08	11.4	<0.2	<10	110	0.81	0.24	0.16	0.46	35.8	6.2	10
ZZ45557		0.27	0.004	0.25	1.78	55.2	<0.2	<10	130	2.51	3.74	0.13	0.33	50.0	20.3	25
ZZ45558		0.34	0.006	0.73	1.50	211	<0.2	<10	60	3.54	12.40	0.16	0.54	26.5	17.5	9
ZZ45559		0.33	0.003	0.20	1.37	145.0	<0.2	<10	80	1.92	5.82	0.10	0.41	28.3	12.4	13
ZZ45560		0.17	0.003	0.10	1.05	4.1	<0.2	<10	130	0.36	0.20	0.33	0.18	25.8	3.2	15
ZZ45561		0.36	0.003	0.30	2.66	20.7	<0.2	<10	200	1.27	0.39	0.42	0.31	43.4	9.8	30
ZZ45562		0.23	0.002	0.33	1.17	18.0	<0.2	<10	120	0.79	0.20	0.99	2.09	28.7	10.9	10
ZZ45563		0.22	0.002	0.28	2.98	26.6	<0.2	<10	370	1.52	0.35	0.49	0.96	27.1	23.8	49
ZZ45564		0.23	0.001	0.29	2.61	83.4	<0.2	<10	210	1.28	0.61	0.15	0.22	34.1	11.4	37
ZZ45565		0.19	0.003	0.29	0.73	79.4	<0.2	<10	60	0.44	0.44	0.23	0.84	20.1	4.0	10
ZZ45566		0.19	0.002	1.38	0.79	76.8	<0.2	<10	80	0.31	1.07	0.14	1.76	24.6	3.8	15
ZZ45567		0.24	0.010	4.39	2.45	250	<0.2	<10	210	1.99	3.08	1.02	0.95	48.8	9.4	28
ZZ45568		0.25	0.006	4.56	2.49	268	<0.2	<10	210	2.09	2.99	1.01	1.01	52.2	10.0	31
ZZ45569		0.27	0.004	1.73	1.74	125.5	<0.2	<10	90	2.98	0.74	1.17	0.45	34.2	9.4	28
ZZ45570		0.32	0.003	0.58	1.80	309	<0.2	<10	150	1.05	3.70	0.25	0.63	36.1	10.7	28
ZZ45571		0.16	0.002	0.94	1.19	77.2	<0.2	<10	120	0.61	0.67	0.57	0.66	17.10	5.8	13
ZZ45572		0.20	0.002	1.59	0.72	138.0	<0.2	<10	50	0.21	0.77	0.15	0.70	12.90	3.3	11
ZZ45573		0.25	<0.001	0.14	0.44	16.6	<0.2	<10	30	0.08	0.14	0.11	0.11	4.26	0.6	1
ZZ45574		0.19	0.001	0.78	1.00	91.8	<0.2	<10	70	0.56	0.45	0.39	0.63	13.65	2.2	8
ZZ45575		0.24	0.001	1.72	2.08	180.5	<0.2	<10	160	1.48	0.52	0.48	0.59	29.6	6.8	23
ZZ45576		0.29	0.005	2.45	2.42	376	<0.2	<10	160	1.49	3.18	0.23	0.32	46.3	6.7	30
ZZ45577		0.28	0.001	0.86	1.07	98.3	<0.2	<10	80	0.62	0.93	0.36	0.52	24.3	3.9	11
ZZ45578		0.26	<0.001	0.14	1.38	10.2	<0.2	<10	100	0.67	0.25	0.54	0.32	25.6	4.6	17
ZZ45579		0.20	0.001	0.21	1.32	5.1	<0.2	<10	130	0.68	0.26	1.55	1.26	27.4	4.7	19
ZZ45580		0.19	0.001	0.33	0.61	6.1	<0.2	<10	40	0.35	0.15	0.16	0.10	7.50	2.8	7



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**CERTIFICATE OF ANALYSIS WH12172342**

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
ZZ45541		3.42	15.8	1.94	6.73	<0.05	<0.02	0.02	0.019	0.08	14.3	16.1	0.24	341	1.01
ZZ45542		4.29	16.6	2.07	6.90	0.05	<0.02	0.03	0.023	0.09	15.6	17.4	0.28	336	1.09
ZZ45543		2.66	23.0	1.89	6.64	<0.05	<0.02	0.04	0.020	0.05	10.5	12.4	0.19	194	1.21
ZZ45544		5.60	19.1	3.53	11.70	<0.05	0.02	0.06	0.042	0.10	14.3	16.3	0.32	452	2.63
ZZ45545		2.24	11.1	1.76	5.15	0.10	0.05	0.07	0.023	0.12	29.2	18.3	0.37	353	0.54
ZZ45546		3.37	15.9	2.26	7.34	0.10	0.06	0.07	0.037	0.18	29.9	26.9	0.53	256	0.57
ZZ45547		4.39	12.7	2.50	7.52	0.07	0.02	0.07	0.035	0.17	23.6	30.6	0.50	448	0.78
ZZ45548		3.86	23.2	2.64	8.98	0.06	<0.02	0.03	0.033	0.14	16.4	32.5	0.52	296	0.82
ZZ45549		4.18	15.3	2.53	8.54	0.09	0.02	0.02	0.038	0.18	28.2	33.1	0.59	299	0.64
ZZ45550		1.41	15.1	0.50	3.25	<0.05	0.02	0.03	0.010	0.04	12.3	4.2	0.06	135	0.46
ZZ45551		3.38	16.3	2.24	6.73	0.07	<0.02	0.13	0.027	0.06	21.7	18.8	0.32	317	1.03
ZZ45552		3.54	15.0	2.41	10.20	0.07	<0.02	0.10	0.027	0.11	19.0	22.6	0.31	379	1.28
ZZ45553		6.37	46.4	2.76	7.58	0.07	<0.02	0.04	0.065	0.14	17.9	29.9	0.38	556	0.78
ZZ45554		2.32	9.4	2.26	6.78	<0.05	<0.02	0.05	0.024	0.07	17.3	17.6	0.27	232	1.22
ZZ45555		2.57	11.7	2.15	5.22	0.07	0.10	0.09	0.029	0.08	19.9	19.6	0.37	306	0.76
ZZ45556		1.94	10.7	1.69	4.00	0.06	0.03	0.09	0.022	0.07	17.4	16.3	0.27	329	0.75
ZZ45557		7.10	40.2	3.64	6.96	0.09	0.02	0.05	0.035	0.17	23.2	30.1	0.44	769	0.93
ZZ45558		4.51	103.5	3.12	4.31	0.05	0.03	0.06	0.166	0.11	12.7	19.2	0.25	691	1.31
ZZ45559		5.01	36.4	3.17	5.55	0.06	<0.02	0.08	0.028	0.14	13.9	20.8	0.28	906	1.30
ZZ45560		2.81	8.1	0.96	6.06	0.05	<0.02	0.05	0.014	0.07	15.2	9.1	0.22	294	0.65
ZZ45561		5.42	30.4	2.41	8.91	0.14	0.06	0.05	0.030	0.29	24.5	40.7	0.81	274	0.46
ZZ45562		1.54	24.7	1.11	4.01	0.05	0.02	0.08	0.014	0.08	11.5	9.9	0.24	3070	2.01
ZZ45563		5.12	30.6	3.24	12.70	0.10	0.02	0.07	0.040	0.50	14.6	65.7	1.52	618	1.73
ZZ45564		6.05	29.9	3.11	10.70	0.08	<0.02	0.06	0.042	0.28	16.7	44.4	0.88	463	2.11
ZZ45565		3.02	43.5	1.85	3.45	<0.05	0.02	0.04	0.033	0.04	7.5	3.4	0.08	612	3.44
ZZ45566		5.18	14.4	1.60	5.98	0.05	<0.02	0.09	0.053	0.09	12.0	9.5	0.24	266	2.88
ZZ45567		10.85	106.0	3.13	7.43	0.12	0.08	0.12	0.152	0.11	34.6	37.0	1.05	905	2.42
ZZ45568		11.10	106.5	3.16	7.87	0.10	0.08	0.12	0.161	0.12	35.5	39.5	1.07	908	2.72
ZZ45569		9.51	74.4	2.28	5.33	0.10	0.08	0.10	0.044	0.06	27.9	27.8	0.79	296	0.84
ZZ45570		11.45	59.7	3.31	7.03	0.07	<0.02	0.04	0.119	0.12	17.3	31.4	0.75	446	4.46
ZZ45571		5.16	27.4	1.94	4.62	0.05	<0.02	0.06	0.028	0.06	11.2	11.4	0.29	409	1.11
ZZ45572		3.64	16.7	1.30	3.37	<0.05	<0.02	0.04	0.024	0.04	6.1	7.6	0.18	141	1.26
ZZ45573		0.82	4.6	0.30	1.57	<0.05	0.02	0.02	<0.005	0.04	2.0	0.7	0.02	23	0.20
ZZ45574		3.69	30.2	0.99	3.39	<0.05	0.02	0.04	0.019	0.04	8.0	6.2	0.17	93	0.61
ZZ45575		6.00	35.1	2.13	6.98	0.06	<0.02	0.05	0.025	0.11	17.5	23.9	0.60	423	1.52
ZZ45576		9.04	83.5	3.40	7.82	0.08	0.02	0.06	0.134	0.09	31.0	31.9	0.68	269	5.83
ZZ45577		3.67	34.4	1.56	3.43	0.06	0.05	0.03	0.049	0.06	14.8	10.3	0.24	148	3.10
ZZ45578		2.67	12.8	1.71	5.22	0.05	<0.02	0.03	0.021	0.05	14.2	13.7	0.47	324	0.96
ZZ45579		2.51	13.9	1.38	5.37	0.06	0.04	0.05	0.014	0.10	16.2	12.6	0.45	513	0.74
ZZ45580		2.14	8.2	1.18	2.88	<0.05	<0.02	0.05	0.007	0.02	3.6	4.5	0.14	121	0.56





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**CERTIFICATE OF ANALYSIS WH12172342**

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
ZZ45541		0.94	8.4	790	14.6	16.3	<0.001	0.02	0.64	1.5	0.5	1.0	11.0	<0.01	0.02
ZZ45542		1.25	10.7	660	15.4	16.6	<0.001	0.04	0.73	1.8	0.6	1.1	11.6	<0.01	0.02
ZZ45543		0.72	9.7	830	13.3	11.5	<0.001	0.06	0.65	0.7	0.9	0.8	10.6	<0.01	0.02
ZZ45544		1.76	13.7	640	36.7	23.0	<0.001	0.02	1.25	3.6	0.5	1.9	12.5	<0.01	0.05
ZZ45545		1.10	9.2	1020	14.0	18.9	<0.001	<0.01	0.69	4.3	0.9	1.2	25.8	<0.01	0.02
ZZ45546		1.98	10.1	740	16.1	26.8	<0.001	<0.01	0.78	5.8	1.0	1.5	24.0	<0.01	0.01
ZZ45547		2.33	11.1	890	18.3	26.2	<0.001	0.01	1.03	4.4	0.5	1.5	16.1	<0.01	0.02
ZZ45548		1.99	11.8	800	18.9	30.2	<0.001	0.02	0.68	3.6	0.6	1.7	16.9	<0.01	0.02
ZZ45549		1.88	12.0	620	14.8	35.9	<0.001	<0.01	0.74	6.4	0.7	1.8	19.6	<0.01	0.01
ZZ45550		0.54	2.5	430	4.3	6.2	<0.001	0.04	0.31	1.1	0.5	0.3	11.2	<0.01	<0.01
ZZ45551		0.70	12.3	820	16.6	12.8	<0.001	0.03	1.18	1.7	0.7	0.9	16.8	<0.01	0.02
ZZ45552		2.12	9.4	810	18.4	24.6	<0.001	0.06	1.05	2.1	1.1	1.3	20.8	0.01	0.01
ZZ45553		1.26	28.0	700	40.4	33.1	<0.001	0.03	1.15	3.2	0.7	1.5	9.6	<0.01	0.02
ZZ45554		1.29	11.8	540	13.0	13.2	0.001	0.02	0.90	2.7	0.5	0.9	15.5	<0.01	0.03
ZZ45555		1.67	15.3	490	12.0	13.0	<0.001	0.02	1.12	3.6	0.8	0.8	15.2	0.01	0.02
ZZ45556		1.23	12.8	620	10.5	11.1	0.001	0.03	0.96	2.0	0.5	0.6	11.8	<0.01	<0.01
ZZ45557		1.00	37.6	620	22.4	39.7	0.001	0.03	3.74	3.4	0.6	1.1	13.2	<0.01	0.01
ZZ45558		0.61	35.6	750	71.9	21.6	<0.001	0.04	10.60	1.5	0.8	1.0	20.8	<0.01	0.02
ZZ45559		1.21	17.8	710	20.1	25.1	<0.001	0.04	2.61	1.8	0.4	1.3	16.7	<0.01	0.01
ZZ45560		0.61	6.0	560	9.0	15.5	<0.001	0.05	0.43	0.7	<0.2	0.8	15.6	<0.01	0.01
ZZ45561		2.46	20.5	580	27.5	43.8	<0.001	0.02	1.69	4.7	0.6	1.0	32.1	<0.01	<0.01
ZZ45562		0.55	7.0	850	15.4	10.1	<0.001	0.16	1.46	0.7	0.6	0.3	42.8	<0.01	<0.01
ZZ45563		2.16	27.4	1160	19.9	43.8	<0.001	0.12	0.96	3.4	0.5	1.0	34.6	<0.01	0.02
ZZ45564		1.83	26.9	600	33.9	45.3	<0.001	0.05	2.85	3.7	0.4	1.3	12.9	<0.01	0.03
ZZ45565		0.12	11.1	1110	15.8	10.1	<0.001	0.07	14.50	0.2	0.3	0.8	16.1	<0.01	<0.01
ZZ45566		1.04	10.3	480	25.9	21.4	<0.001	0.05	4.28	1.1	0.2	3.2	11.8	<0.01	0.02
ZZ45567		1.01	31.8	1950	72.9	20.2	0.001	0.15	7.51	2.7	1.8	4.8	52.4	0.01	0.04
ZZ45568		1.08	33.9	1950	74.1	21.0	<0.001	0.15	7.63	2.7	2.4	5.2	52.5	0.01	0.04
ZZ45569		0.85	23.8	1680	17.9	10.9	<0.001	0.15	2.19	1.8	1.9	0.7	50.0	0.01	0.01
ZZ45570		0.95	32.0	600	106.5	18.3	<0.001	0.04	20.5	2.1	0.7	4.1	21.2	<0.01	0.04
ZZ45571		0.41	12.4	1390	24.3	10.2	0.001	0.09	2.68	0.7	0.4	0.7	30.7	<0.01	0.02
ZZ45572		0.34	8.2	470	18.5	6.1	0.001	0.04	3.16	0.4	<0.2	0.9	12.1	<0.01	0.02
ZZ45573		0.33	1.0	220	1.8	2.2	<0.001	0.02	0.17	0.2	<0.2	0.2	8.4	<0.01	<0.01
ZZ45574		0.46	6.5	860	18.7	6.3	<0.001	0.08	1.11	0.5	0.3	1.0	21.8	<0.01	<0.01
ZZ45575		0.74	16.6	1050	25.3	16.4	<0.001	0.10	2.26	1.1	1.0	0.9	31.7	<0.01	0.02
ZZ45576		0.87	30.1	1180	100.5	15.2	<0.001	0.10	14.40	1.2	1.9	4.1	25.3	<0.01	0.04
ZZ45577		0.61	14.1	650	31.1	7.8	0.001	0.06	6.70	1.0	0.8	1.3	20.8	0.01	0.01
ZZ45578		0.56	10.5	700	10.2	13.1	<0.001	0.06	0.57	0.9	0.3	0.6	27.7	<0.01	<0.01
ZZ45579		1.17	11.0	820	8.7	22.0	<0.001	0.10	0.57	1.2	0.5	0.6	57.7	0.01	0.01
ZZ45580		0.21	4.4	880	5.5	4.0	<0.001	0.06	0.67	0.2	<0.2	0.3	11.9	<0.01	<0.01





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**CERTIFICATE OF ANALYSIS WH12172342**

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
ZZ45541		0.041	0.17	1.85	36	0.86	4.95	46	<0.5
ZZ45542		0.051	0.20	1.80	37	0.83	5.13	52	<0.5
ZZ45543		0.028	0.13	1.86	35	0.60	3.47	41	<0.5
ZZ45544		0.026	0.36	1.72	77	1.48	4.34	85	<0.5
ZZ45545		0.077	0.19	1.41	32	0.43	17.70	52	2.2
ZZ45546		0.092	0.25	1.74	42	1.14	14.70	78	2.3
ZZ45547		0.077	0.27	1.21	43	0.70	12.10	72	0.6
ZZ45548		0.065	0.34	1.98	47	4.08	7.83	68	<0.5
ZZ45549		0.101	0.31	4.33	45	1.89	14.70	66	0.7
ZZ45550		0.025	0.11	2.46	16	0.19	8.79	14	0.7
ZZ45551		0.028	0.21	3.03	41	0.26	9.30	60	<0.5
ZZ45552		0.057	0.22	1.35	43	0.31	7.89	57	<0.5
ZZ45553		0.044	0.27	14.75	32	3.12	12.85	104	<0.5
ZZ45554		0.034	0.17	0.98	44	0.34	5.56	58	0.5
ZZ45555		0.049	0.19	1.08	35	0.61	7.18	57	2.8
ZZ45556		0.041	0.10	2.20	25	0.41	6.48	58	0.7
ZZ45557		0.035	0.25	19.55	34	5.07	10.80	96	<0.5
ZZ45558		0.013	0.28	30.5	17	8.77	12.80	140	0.7
ZZ45559		0.037	0.23	11.20	26	7.65	6.89	72	<0.5
ZZ45560		0.040	0.15	0.69	27	0.24	4.05	25	<0.5
ZZ45561		0.110	0.27	1.10	40	1.25	9.31	90	2.3
ZZ45562		0.029	0.51	1.11	28	0.32	8.73	36	0.6
ZZ45563		0.111	0.29	1.68	79	0.30	4.11	120	1.0
ZZ45564		0.100	0.29	1.21	70	0.54	4.66	91	0.6
ZZ45565		0.009	0.15	1.11	43	0.18	4.58	51	<0.5
ZZ45566		0.056	0.13	0.58	51	0.54	2.25	53	<0.5
ZZ45567		0.029	0.34	4.10	52	0.58	30.5	175	2.2
ZZ45568		0.030	0.34	4.03	55	0.59	31.1	183	2.3
ZZ45569		0.023	0.16	3.29	29	0.50	32.3	49	2.2
ZZ45570		0.051	0.24	1.73	65	0.85	6.16	187	<0.5
ZZ45571		0.042	0.16	1.00	47	0.21	7.71	63	<0.5
ZZ45572		0.028	0.09	0.57	29	0.42	1.88	44	<0.5
ZZ45573		0.019	0.02	0.15	8	0.06	0.60	6	0.7
ZZ45574		0.030	0.07	0.85	21	0.16	4.62	32	0.6
ZZ45575		0.037	0.21	1.91	40	0.40	8.99	67	<0.5
ZZ45576		0.022	0.45	5.27	73	0.71	10.55	151	0.6
ZZ45577		0.032	0.14	1.96	32	0.31	6.45	72	1.6
ZZ45578		0.030	0.11	0.83	30	0.23	6.13	46	<0.5
ZZ45579		0.045	0.12	0.51	28	0.14	8.64	52	1.5
ZZ45580		0.041	0.06	0.31	33	0.11	1.44	24	<0.5



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**CERTIFICATE OF ANALYSIS WH12172342**

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
ZZ45581		0.29	0.001	1.34	2.74	18.1	<0.2	<10	200	3.01	3.63	0.45	0.90	19.70	10.7	39
ZZ45582		0.18	<0.001	0.82	2.38	59.0	<0.2	<10	220	1.61	1.95	1.11	0.54	24.2	9.0	29
ZZ45583		0.33	0.001	1.05	3.06	57.1	<0.2	<10	260	2.06	1.67	0.81	1.19	32.0	11.2	42
ZZ45584		0.39	0.001	0.77	1.41	34.9	<0.2	<10	90	0.77	0.84	0.18	0.38	62.3	5.3	27
ZZ45585		0.34	0.003	0.77	1.41	69.6	<0.2	<10	90	0.79	0.58	0.14	0.46	45.9	5.8	24
ZZ45586		0.27	0.001	1.36	0.68	149.0	<0.2	<10	40	0.31	1.72	0.11	0.39	8.01	3.0	8
ZZ45587		0.25	0.003	1.06	2.24	139.0	<0.2	<10	140	2.00	2.12	1.83	2.20	29.9	19.6	27
ZZ45588		0.28	0.005	1.55	1.42	429	<0.2	<10	120	1.57	2.89	0.46	2.27	76.8	12.2	25
ZZ45589		0.28	0.006	3.01	2.05	555	<0.2	<10	130	1.60	9.51	0.27	1.54	55.1	14.7	29
ZZ45590		0.32	0.017	4.36	2.07	1480	<0.2	<10	140	1.90	21.2	0.39	1.21	33.6	10.1	28
ZZ45591		0.17	<0.001	0.73	0.53	59.0	<0.2	<10	50	0.47	0.45	0.09	0.90	6.81	3.5	8
ZZ45592		0.44	0.025	4.42	2.14	248	<0.2	<10	130	0.97	2.09	0.16	0.86	47.0	10.4	28
ZZ45593		0.58	0.024	6.14	2.00	575	<0.2	<10	160	1.08	2.04	0.16	1.19	62.0	10.9	28
ZZ45594		0.35	0.003	1.45	1.58	108.5	<0.2	<10	130	1.09	1.46	0.15	0.87	64.5	9.6	24
ZZ45595		0.34	0.007	1.74	1.76	214	<0.2	<10	120	1.00	1.20	0.12	0.81	69.0	11.6	26
ZZ45596		0.35	0.004	2.19	1.25	114.5	<0.2	<10	90	0.74	0.54	0.11	0.51	45.8	6.7	19
ZZ45597		0.34	0.003	1.80	1.97	120.5	<0.2	<10	110	1.61	0.88	0.16	1.37	85.6	18.1	33
ZZ45598		0.23	0.002	0.98	1.35	39.2	<0.2	<10	80	0.76	0.56	0.18	0.41	45.9	4.9	21
ZZ45599		0.28	0.001	1.16	1.33	51.4	<0.2	<10	90	0.75	1.51	0.07	1.08	110.0	13.5	21
ZZ45600		0.29	0.001	1.24	1.21	52.1	<0.2	<10	90	0.86	2.16	0.09	2.11	108.0	7.5	18
ZZ45601		0.28	0.003	0.17	2.51	13.2	<0.2	<10	120	1.32	0.49	0.18	0.26	35.3	8.0	33
ZZ45602		0.15	0.002	0.31	1.00	4.9	<0.2	<10	70	0.58	0.17	0.24	0.49	18.75	19.6	13
ZZ45603		0.19	0.001	0.20	0.54	2.1	<0.2	<10	30	0.22	0.10	0.14	0.11	6.16	2.3	3
ZZ45604		0.30	0.002	0.73	3.31	16.4	<0.2	<10	290	2.39	0.44	0.43	0.27	35.4	7.2	32
ZZ45605		0.26	<0.001	0.10	0.57	2.6	<0.2	<10	60	0.16	0.08	0.07	0.16	7.28	2.6	6
ZZ45606		0.34	0.005	0.16	1.98	11.9	<0.2	<10	160	0.70	0.25	0.15	0.39	43.1	7.7	17
ZZ45607		0.24	<0.001	0.22	2.33	9.7	<0.2	<10	120	0.63	0.23	0.08	0.21	26.9	5.7	33
ZZ45608		0.20	<0.001	0.43	0.87	1.7	<0.2	<10	50	0.32	0.08	0.24	0.17	6.05	1.0	5
ZZ45609		0.23	<0.001	0.14	0.48	2.3	<0.2	<10	60	0.17	0.16	0.06	0.13	7.53	1.4	5
ZZ45610		0.29	<0.001	0.39	1.32	15.0	<0.2	<10	100	1.46	0.35	0.41	1.10	28.9	5.5	14
ZZ45611		0.18	<0.001	0.11	0.31	0.3	<0.2	<10	30	0.12	0.06	0.15	0.05	3.39	1.1	2
ZZ45612		0.22	0.001	0.13	0.82	4.0	<0.2	<10	100	0.24	0.34	0.75	0.12	12.35	2.2	7
ZZ45613		0.25	0.001	0.28	2.15	21.0	<0.2	<10	140	0.77	2.68	1.46	1.35	42.7	7.0	18
ZZ45614		0.27	<0.001	0.12	0.60	2.8	<0.2	<10	30	0.18	0.18	0.05	0.14	7.76	1.5	5
ZZ45615		0.28	<0.001	1.22	1.33	9.8	<0.2	<10	100	0.86	2.29	0.36	0.97	24.1	4.7	12
ZZ45616		0.36	0.007	2.46	1.81	6.6	<0.2	<10	60	4.08	8.97	0.36	5.01	37.0	6.6	31
ZZ45617		0.29	<0.001	0.27	0.63	2.1	<0.2	<10	40	0.38	0.48	0.09	0.27	9.44	1.2	4
ZZ45618		0.20	0.001	0.63	1.63	12.1	<0.2	<10	180	1.64	1.51	0.22	1.91	27.4	5.7	12
ZZ45619		0.25	<0.001	0.29	0.82	5.4	<0.2	<10	90	0.39	0.14	0.11	0.23	15.40	1.9	6
ZZ45620		0.25	<0.001	0.25	1.26	9.8	<0.2	<10	150	0.62	0.26	0.18	0.21	35.9	3.5	10



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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
ZZ45581		12.05	34.5	2.30	6.16	0.05	0.03	0.07	0.016	0.12	9.4	58.3	1.20	274	0.58
ZZ45582		9.09	34.9	2.86	7.19	0.06	0.05	0.06	0.046	0.18	10.9	42.8	1.51	531	1.17
ZZ45583		13.55	40.9	3.38	9.17	0.07	0.05	0.05	0.054	0.27	16.7	57.7	2.00	464	1.31
ZZ45584		8.42	50.2	2.54	5.74	0.09	<0.02	0.05	0.042	0.09	33.3	20.2	0.36	270	11.65
ZZ45585		9.60	47.8	2.82	5.85	0.09	<0.02	0.05	0.039	0.10	24.9	17.1	0.35	368	9.64
ZZ45586		1.97	54.9	1.05	2.63	<0.05	<0.02	0.04	0.068	0.04	4.1	4.2	0.12	201	1.31
ZZ45587		14.85	64.8	3.57	6.96	0.08	0.05	0.10	0.096	0.23	18.2	42.5	1.78	927	2.31
ZZ45588		13.05	125.0	4.93	4.94	0.13	0.04	0.06	0.145	0.14	43.3	24.2	0.54	428	18.50
ZZ45589		13.05	167.5	4.31	6.84	0.11	0.02	0.04	0.309	0.17	27.3	36.7	0.91	633	10.30
ZZ45590		9.79	406	3.80	7.66	0.16	<0.02	0.06	0.346	0.12	17.1	30.3	0.77	527	2.89
ZZ45591		1.73	22.3	1.00	2.24	<0.05	<0.02	0.06	0.015	0.04	3.4	6.2	0.17	112	1.27
ZZ45592		6.28	62.8	3.15	7.42	0.07	0.02	0.04	0.097	0.11	21.5	31.2	0.70	392	4.35
ZZ45593		7.85	63.4	3.43	7.17	0.10	0.02	0.03	0.151	0.15	31.0	32.2	0.62	437	10.40
ZZ45594		11.05	69.3	3.43	6.07	0.10	<0.02	0.05	0.085	0.12	35.7	24.5	0.43	393	13.95
ZZ45595		10.65	72.4	3.80	6.61	0.10	<0.02	0.04	0.063	0.13	35.4	28.3	0.47	536	13.80
ZZ45596		7.27	57.1	2.67	4.71	0.08	0.02	0.05	0.038	0.10	24.5	16.3	0.29	234	9.46
ZZ45597		11.25	81.3	5.22	7.42	0.12	0.02	0.06	0.064	0.12	42.2	34.2	0.59	667	11.10
ZZ45598		7.25	52.5	2.37	5.02	0.07	<0.02	0.05	0.039	0.07	23.0	15.8	0.27	207	6.99
ZZ45599		8.65	63.4	2.48	5.18	0.13	<0.02	0.05	0.212	0.08	53.3	20.2	0.28	298	13.50
ZZ45600		10.05	91.3	2.65	4.99	0.13	<0.02	0.05	0.136	0.06	54.6	17.3	0.24	191	17.45
ZZ45601		4.46	20.0	2.73	9.75	0.05	<0.02	0.06	0.028	0.11	18.5	32.9	0.65	310	1.69
ZZ45602		2.82	10.6	1.14	4.80	<0.05	<0.02	0.06	0.018	0.07	7.5	9.3	0.19	1610	1.61
ZZ45603		0.71	6.6	0.58	2.02	<0.05	<0.02	0.02	0.006	0.03	3.8	2.0	0.06	189	0.27
ZZ45604		4.60	30.6	2.87	10.65	0.10	0.03	0.05	0.036	0.10	37.7	29.8	0.55	398	1.22
ZZ45605		0.70	9.9	1.17	3.01	<0.05	<0.02	0.03	0.008	0.03	3.5	4.4	0.10	75	0.38
ZZ45606		1.92	11.4	2.42	5.86	0.05	0.05	0.07	0.029	0.08	19.4	23.9	0.38	351	0.93
ZZ45607		4.83	21.6	2.48	10.40	0.05	0.02	0.07	0.018	0.17	14.0	34.8	0.55	121	1.32
ZZ45608		0.43	7.1	0.72	1.56	<0.05	<0.02	0.02	<0.005	0.03	4.9	2.0	0.08	202	0.32
ZZ45609		1.28	6.5	0.69	2.97	<0.05	<0.02	0.02	0.006	0.03	3.8	1.9	0.05	114	0.67
ZZ45610		3.26	37.5	1.66	5.20	0.06	<0.02	0.03	0.018	0.04	17.9	12.6	0.26	338	0.93
ZZ45611		0.24	8.9	0.45	1.32	<0.05	<0.02	0.01	<0.005	0.02	2.0	0.7	0.03	27	0.19
ZZ45612		0.98	19.1	1.03	3.11	<0.05	<0.02	0.04	0.012	0.03	6.3	4.7	0.10	118	0.64
ZZ45613		3.72	25.4	1.85	6.62	0.06	0.02	0.08	0.049	0.04	19.3	15.6	0.29	909	0.87
ZZ45614		1.21	5.7	0.88	3.06	<0.05	<0.02	0.04	0.008	0.03	3.6	3.1	0.05	51	0.66
ZZ45615		4.57	23.4	1.99	5.02	<0.05	<0.02	0.04	0.041	0.06	12.3	12.4	0.23	482	0.64
ZZ45616		3.94	127.0	2.09	6.65	0.08	<0.02	0.05	0.368	0.07	21.2	22.4	0.52	644	0.56
ZZ45617		0.96	12.5	0.61	2.34	<0.05	<0.02	0.02	0.008	0.04	5.3	2.2	0.06	65	0.41
ZZ45618		5.76	34.0	1.83	5.93	0.06	0.02	0.05	0.036	0.06	19.6	11.5	0.20	426	1.06
ZZ45619		1.62	13.9	0.91	3.35	<0.05	<0.02	0.03	0.011	0.04	8.3	5.9	0.11	102	0.62
ZZ45620		2.67	12.9	1.67	5.13	0.05	<0.02	0.06	0.019	0.08	16.5	13.0	0.25	192	0.79



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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
ZZ45581		1.88	27.0	1190	102.0	23.2	0.001	0.09	2.16	1.5	0.3	0.9	41.5	0.01	0.04
ZZ45582		1.60	27.1	1090	25.6	30.5	<0.001	0.10	2.12	2.1	0.4	1.8	54.4	<0.01	0.02
ZZ45583		1.61	37.8	1030	32.5	44.0	0.001	0.45	1.94	3.3	0.8	1.6	46.6	<0.01	0.04
ZZ45584		0.43	27.6	980	41.0	15.7	0.001	0.33	14.95	1.2	1.7	1.0	18.8	<0.01	0.03
ZZ45585		0.48	21.4	1000	36.6	14.7	0.001	0.12	33.4	1.3	1.4	1.1	14.4	<0.01	0.04
ZZ45586		0.16	7.1	800	33.3	6.4	<0.001	0.08	0.92	0.1	0.4	2.3	10.8	<0.01	0.01
ZZ45587		1.03	46.2	1350	66.9	38.1	0.001	0.15	2.14	2.1	1.0	2.7	67.9	<0.01	0.01
ZZ45588		0.54	51.8	1230	84.2	18.2	0.003	0.12	35.4	2.9	3.7	2.8	25.4	<0.01	0.06
ZZ45589		0.61	39.6	1090	301	24.8	0.001	0.09	19.10	2.2	2.7	10.5	25.6	<0.01	0.11
ZZ45590		0.74	33.0	1070	119.0	21.4	<0.001	0.12	8.04	1.7	1.7	18.1	42.2	<0.01	0.06
ZZ45591		0.17	9.4	610	14.5	5.0	0.001	0.06	12.60	0.2	<0.2	0.8	9.8	<0.01	0.01
ZZ45592		0.93	29.2	850	139.0	18.1	0.001	0.04	24.6	2.8	1.1	2.4	13.5	<0.01	0.05
ZZ45593		0.74	35.8	940	576	21.2	0.001	0.08	73.3	3.3	1.6	2.9	17.8	<0.01	0.04
ZZ45594		0.67	35.5	1040	104.0	16.4	0.001	0.07	17.50	2.5	1.8	1.4	16.7	<0.01	0.05
ZZ45595		0.68	36.2	1010	74.2	17.4	0.001	0.08	33.8	2.4	1.9	1.7	16.2	<0.01	0.04
ZZ45596		0.55	27.2	800	46.0	13.4	0.004	0.06	26.5	1.9	0.9	1.0	12.5	<0.01	0.03
ZZ45597		0.71	39.8	1010	53.3	16.1	0.002	0.06	100.5	3.5	1.9	1.4	17.0	<0.01	0.03
ZZ45598		0.43	26.0	1120	23.3	14.3	0.001	0.10	13.10	1.0	1.3	0.9	15.9	<0.01	0.03
ZZ45599		0.56	46.4	840	241	11.1	0.001	0.05	23.3	1.5	2.2	1.5	11.7	<0.01	0.07
ZZ45600		0.30	24.5	970	118.0	9.5	0.001	0.06	40.2	0.7	2.4	1.9	16.7	<0.01	0.04
ZZ45601		1.53	19.2	700	21.1	19.1	<0.001	0.07	0.81	2.4	0.4	0.8	20.2	<0.01	0.04
ZZ45602		0.58	7.5	710	169.5	11.8	<0.001	0.08	0.43	0.7	<0.2	0.5	16.0	<0.01	0.02
ZZ45603		0.32	2.2	370	15.9	3.3	<0.001	0.04	0.32	0.3	<0.2	0.2	8.8	<0.01	<0.01
ZZ45604		0.97	26.0	1550	33.6	18.4	0.001	0.12	1.50	2.2	0.7	1.0	27.9	0.01	0.02
ZZ45605		0.36	4.1	320	4.9	4.3	<0.001	0.03	0.26	0.5	<0.2	0.3	7.5	<0.01	0.02
ZZ45606		2.00	16.3	470	17.8	12.1	0.001	0.02	0.79	3.6	0.3	0.8	12.3	<0.01	0.04
ZZ45607		3.07	17.3	410	12.6	20.6	<0.001	0.04	0.56	3.6	0.2	0.9	8.3	0.02	0.05
ZZ45608		0.15	2.0	870	7.1	2.4	<0.001	0.08	0.22	0.2	<0.2	<0.2	7.1	<0.01	0.01
ZZ45609		0.18	3.3	390	6.7	5.8	<0.001	0.04	0.33	0.1	<0.2	0.4	7.7	<0.01	0.02
ZZ45610		0.46	12.4	820	25.5	9.3	0.001	0.07	1.14	1.0	0.5	0.5	17.9	<0.01	0.02
ZZ45611		0.26	1.7	340	1.7	1.3	0.001	0.03	0.08	0.3	<0.2	<0.2	10.3	<0.01	0.01
ZZ45612		0.49	4.9	860	6.2	4.5	0.001	0.08	0.30	0.4	0.2	0.4	22.7	<0.01	0.01
ZZ45613		0.82	16.1	980	29.0	11.4	<0.001	0.11	0.76	1.8	<0.2	1.2	30.3	0.01	0.02
ZZ45614		0.68	3.3	250	4.7	6.0	0.001	0.03	0.23	0.5	<0.2	0.4	5.4	<0.01	0.01
ZZ45615		0.37	8.8	1000	122.0	15.4	<0.001	0.07	0.63	1.1	0.2	1.2	16.0	<0.01	0.03
ZZ45616		1.12	14.9	560	117.5	12.0	0.001	0.04	0.49	3.4	0.3	1.2	17.1	<0.01	0.04
ZZ45617		0.47	2.5	340	5.7	3.0	<0.001	0.02	0.18	0.5	<0.2	0.2	7.3	<0.01	0.01
ZZ45618		0.99	8.7	810	41.4	14.3	0.001	0.09	0.69	1.7	0.6	0.9	19.7	<0.01	0.02
ZZ45619		0.56	5.8	480	6.2	7.0	<0.001	0.04	0.39	0.8	<0.2	0.4	11.0	<0.01	0.03
ZZ45620		0.70	8.4	610	13.7	16.7	<0.001	0.05	0.61	1.4	0.4	0.8	16.6	<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
ZZ45581		0.068	0.37	1.03	41	0.77	6.09	140	0.8
ZZ45582		0.055	0.36	1.00	48	0.55	7.39	89	1.6
ZZ45583		0.070	0.46	1.67	58	0.66	10.65	143	1.8
ZZ45584		0.026	0.20	4.68	70	0.22	11.70	109	<0.5
ZZ45585		0.033	0.20	3.37	76	0.37	8.27	101	<0.5
ZZ45586		0.019	0.08	0.83	26	0.21	2.28	48	<0.5
ZZ45587		0.037	0.42	1.88	67	0.70	17.90	191	1.5
ZZ45588		0.020	0.59	6.43	77	0.60	22.3	290	1.7
ZZ45589		0.033	0.45	5.26	87	1.03	13.70	328	<0.5
ZZ45590		0.035	0.31	3.20	66	6.17	8.62	211	<0.5
ZZ45591		0.020	0.10	0.81	22	0.39	1.48	58	<0.5
ZZ45592		0.046	0.30	2.23	59	0.77	8.14	144	<0.5
ZZ45593		0.042	0.34	4.11	71	0.57	12.35	181	<0.5
ZZ45594		0.039	0.32	5.57	72	0.38	12.65	164	<0.5
ZZ45595		0.031	0.35	4.86	73	0.64	14.45	158	<0.5
ZZ45596		0.040	0.29	3.43	62	0.94	8.58	131	<0.5
ZZ45597		0.036	0.26	4.51	75	3.34	16.55	200	0.5
ZZ45598		0.021	0.18	3.45	60	0.20	11.30	113	<0.5
ZZ45599		0.019	0.29	7.46	70	0.46	19.35	203	<0.5
ZZ45600		0.018	0.21	11.20	68	0.35	22.4	106	<0.5
ZZ45601		0.063	0.17	1.42	49	4.52	5.90	65	<0.5
ZZ45602		0.040	0.26	0.68	24	0.33	2.16	38	<0.5
ZZ45603		0.026	0.07	0.33	14	0.10	1.76	11	<0.5
ZZ45604		0.033	0.26	5.04	68	0.48	21.0	82	0.8
ZZ45605		0.045	0.06	0.30	32	0.33	1.20	20	<0.5
ZZ45606		0.047	0.18	0.83	41	0.40	6.06	63	1.2
ZZ45607		0.123	0.19	0.68	58	1.84	2.95	42	1.0
ZZ45608		0.016	0.04	0.58	17	0.29	2.24	18	<0.5
ZZ45609		0.019	0.08	0.40	19	0.43	0.98	16	<0.5
ZZ45610		0.030	0.09	3.41	37	7.50	15.65	273	<0.5
ZZ45611		0.023	0.03	0.26	12	2.37	0.95	7	0.5
ZZ45612		0.026	0.05	0.59	21	0.39	2.20	20	<0.5
ZZ45613		0.032	0.10	2.25	25	5.12	9.48	82	0.5
ZZ45614		0.033	0.06	0.57	20	0.31	1.06	15	<0.5
ZZ45615		0.025	0.14	1.79	38	5.83	6.66	115	<0.5
ZZ45616		0.042	0.13	3.60	42	25.8	11.75	457	<0.5
ZZ45617		0.026	0.07	0.91	14	2.09	2.36	18	<0.5
ZZ45618		0.024	0.21	3.69	34	2.66	10.80	77	0.5
ZZ45619		0.024	0.10	1.54	17	0.34	4.78	26	<0.5
ZZ45620		0.038	0.16	2.76	31	0.30	8.49	52	<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
ZZ45621		0.21	<0.001	0.15	0.74	3.4	<0.2	<10	90	0.23	0.10	0.06	0.08	11.20	1.3	5
ZZ45622		0.33	<0.001	0.68	3.67	27.8	<0.2	<10	580	1.45	0.40	0.19	0.39	58.4	5.4	27
ZZ45623		0.27	<0.001	0.22	1.92	18.4	<0.2	<10	330	1.00	0.38	0.21	0.31	51.7	5.0	17
ZZ45624		0.34	<0.001	0.12	1.56	14.2	<0.2	<10	130	0.52	0.22	0.12	0.55	31.7	5.2	15
ZZ45625		0.34	0.001	0.12	1.05	12.6	<0.2	<10	160	0.44	0.21	0.30	0.38	56.2	6.0	12
ZZ45626		0.34	0.001	0.13	1.23	11.0	<0.2	<10	170	0.63	0.84	0.30	0.54	59.3	8.1	15
ZZ45627		0.36	0.001	0.43	2.01	15.8	<0.2	<10	180	0.91	1.20	0.27	0.60	39.0	6.5	19
ZZ45628		0.28	<0.001	0.73	0.54	2.3	<0.2	<10	60	0.48	0.21	0.15	0.45	8.70	1.8	4
ZZ45629		0.40	0.001	0.28	1.16	8.0	<0.2	<10	110	0.66	0.51	0.33	0.88	37.7	4.2	10
ZZ45630		0.22	<0.001	0.13	1.00	10.8	<0.2	<10	190	0.32	0.24	0.22	0.66	21.2	5.4	12
ZZ45631		0.25	<0.001	0.10	0.45	1.0	<0.2	<10	60	0.12	0.05	0.25	0.27	5.63	1.0	2
ZZ45632		0.19	<0.001	0.07	0.28	0.8	<0.2	<10	30	0.09	0.05	0.16	0.21	3.53	1.7	3
ZZ45633		0.21	<0.001	0.15	1.53	9.8	<0.2	<10	190	0.68	0.76	0.56	1.29	22.2	11.3	13
ZZ45634		0.23	<0.001	0.49	0.96	5.6	<0.2	<10	60	0.82	0.15	0.43	0.44	16.20	2.2	5
ZZ45635		0.28	0.001	0.70	1.20	9.4	<0.2	<10	90	0.63	0.22	0.21	0.19	17.80	3.4	10
ZZ45636		0.35	0.002	0.15	2.17	13.6	<0.2	<10	170	0.84	0.24	0.21	0.28	35.3	6.3	17
ZZ45637		0.29	0.001	0.08	1.77	10.5	<0.2	<10	110	0.54	0.24	0.12	0.53	24.6	4.4	18
ZZ45638		0.27	<0.001	0.13	0.44	1.7	<0.2	<10	40	0.15	0.08	0.16	0.09	8.24	2.8	3
ZZ45639		0.28	0.001	0.13	1.20	9.7	<0.2	<10	160	0.51	0.32	0.30	0.31	25.9	4.1	15
ZZ45640		0.31	<0.001	0.30	1.44	7.1	<0.2	<10	130	0.69	0.24	0.30	0.31	20.2	5.0	13
ZZ45641		0.24	<0.001	0.10	0.38	0.7	<0.2	<10	30	0.16	0.03	0.05	0.05	4.22	1.1	2
ZZ45642		0.23	0.005	0.09	1.30	21.4	<0.2	<10	100	0.41	0.43	0.06	0.26	24.8	4.4	22
ZZ45643		0.23	0.002	0.06	0.91	14.4	<0.2	<10	60	0.24	0.26	0.07	0.13	25.6	3.3	13
ZZ45644		0.23	0.002	0.17	3.36	22.3	<0.2	<10	210	1.32	0.39	0.34	0.31	38.6	8.2	32
ZZ45645		0.19	0.004	0.41	1.46	14.2	<0.2	<10	180	0.69	0.26	0.35	2.89	23.8	15.7	12
ZZ45646		0.44	0.001	0.10	2.22	20.3	<0.2	<10	110	1.05	0.30	0.17	0.17	30.2	6.0	28
ZZ45647		0.25	0.002	1.22	1.13	8.3	<0.2	<10	80	0.40	0.27	0.06	0.29	18.85	2.5	12
ZZ45648		0.33	0.006	0.21	1.44	13.5	<0.2	<10	210	0.64	0.24	0.28	0.33	57.8	7.4	14
ZZ45649		0.44	0.002	0.16	1.24	12.7	<0.2	<10	220	0.57	0.23	0.35	0.33	59.2	5.5	14
ZZ45650		0.53	0.001	0.20	1.51	10.7	<0.2	<10	200	0.67	0.25	0.29	0.20	57.5	5.1	14
ZZ45683		0.36	0.001	0.40	1.46	19.5	<0.2	<10	210	0.60	0.15	0.25	0.17	30.5	8.0	26
ZZ45709		0.24	<0.001	0.18	0.37	7.0	<0.2	<10	50	0.11	0.13	0.06	0.58	5.50	1.8	7
ZZ45710		0.38	0.004	0.20	1.78	18.0	<0.2	<10	200	0.76	0.26	0.27	0.68	31.1	12.9	28
ZZ45711		0.35	0.001	0.15	1.15	12.9	<0.2	<10	100	0.34	0.19	0.11	0.32	26.1	5.7	22
ZZ45712		0.26	<0.001	0.06	0.34	1.7	<0.2	<10	60	0.11	0.02	0.62	0.06	2.71	2.0	7
ZZ45713		0.31	<0.001	0.16	0.74	23.6	<0.2	<10	60	0.19	0.10	0.15	0.33	8.85	6.0	53
ZZ45714		0.28	<0.001	0.33	1.61	43.2	<0.2	<10	160	0.39	0.12	1.02	0.47	15.40	25.3	139
ZZ45715		0.28	0.001	0.61	0.87	79.7	<0.2	<10	90	0.39	0.15	0.89	1.91	12.80	22.8	63
ZZ45716		0.27	<0.001	0.32	0.54	12.3	<0.2	<10	80	0.23	0.05	0.34	0.13	7.71	1.7	14
ZZ45717		0.27	<0.001	0.16	0.74	7.3	<0.2	<10	60	0.29	0.09	0.09	0.07	13.50	2.3	7



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**CERTIFICATE OF ANALYSIS WH12172342**

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
ZZ45621		1.46	8.3	0.74	3.44	<0.05	<0.02	0.03	0.008	0.03	5.5	2.7	0.05	124	0.77
ZZ45622		7.47	23.4	3.36	11.20	0.09	0.03	0.18	0.052	0.14	33.8	30.9	0.40	159	1.65
ZZ45623		5.28	18.4	2.75	8.73	0.06	<0.02	0.05	0.032	0.10	25.6	15.6	0.29	465	1.97
ZZ45624		3.00	13.2	2.24	6.75	<0.05	<0.02	0.04	0.024	0.09	15.0	16.6	0.30	386	1.32
ZZ45625		2.53	10.1	1.68	4.48	0.08	0.02	0.03	0.021	0.11	25.1	15.7	0.31	372	0.78
ZZ45626		3.04	14.6	2.04	5.26	0.08	0.03	0.02	0.031	0.14	24.2	20.2	0.42	564	0.77
ZZ45627		4.71	19.6	2.60	7.27	0.05	<0.02	0.05	0.041	0.10	19.1	18.0	0.38	409	1.37
ZZ45628		1.49	12.4	0.80	2.39	<0.05	<0.02	0.05	0.007	0.03	5.7	3.0	0.07	86	0.40
ZZ45629		6.39	14.4	1.48	4.86	0.05	0.02	0.04	0.018	0.07	18.3	18.1	0.30	236	0.64
ZZ45630		2.74	7.9	1.79	5.47	<0.05	<0.02	0.06	0.018	0.14	10.4	9.9	0.25	904	1.32
ZZ45631		0.47	4.3	0.35	1.75	<0.05	0.02	0.06	<0.005	0.03	2.7	1.4	0.04	90	0.31
ZZ45632		0.31	6.7	0.67	1.39	<0.05	0.02	0.04	<0.005	0.02	2.0	1.1	0.05	82	0.18
ZZ45633		2.87	40.0	2.20	5.23	<0.05	<0.02	0.07	0.026	0.04	12.7	8.1	0.19	2750	1.28
ZZ45634		1.20	16.2	0.77	3.30	<0.05	0.03	0.05	0.009	0.03	21.4	3.7	0.09	254	0.48
ZZ45635		1.78	13.4	1.54	4.94	0.05	<0.02	0.05	0.015	0.04	18.4	5.7	0.13	313	0.95
ZZ45636		2.18	14.6	2.52	6.51	0.05	0.03	0.05	0.032	0.07	17.7	22.7	0.38	310	1.07
ZZ45637		1.77	8.8	2.64	6.48	<0.05	0.03	0.07	0.022	0.07	12.0	17.7	0.27	211	1.19
ZZ45638		0.67	6.8	0.60	2.03	<0.05	<0.02	0.04	<0.005	0.03	5.2	1.9	0.06	243	0.40
ZZ45639		2.68	13.4	1.88	6.29	<0.05	<0.02	0.04	0.018	0.05	14.0	6.1	0.18	425	1.73
ZZ45640		2.30	18.6	1.65	4.91	<0.05	<0.02	0.05	0.015	0.05	13.6	10.0	0.23	388	0.73
ZZ45641		0.29	6.2	0.52	1.40	<0.05	<0.02	0.04	<0.005	0.02	2.4	0.7	0.03	28	0.21
ZZ45642		2.37	11.0	3.00	10.35	<0.05	0.02	0.04	0.021	0.10	13.6	14.0	0.30	240	1.61
ZZ45643		1.94	8.6	2.22	7.12	<0.05	<0.02	0.04	0.016	0.06	13.3	9.2	0.21	158	1.04
ZZ45644		6.23	25.0	3.14	10.65	0.06	<0.02	0.05	0.037	0.14	20.7	31.3	0.62	384	1.29
ZZ45645		4.44	14.6	1.40	5.29	<0.05	0.02	0.05	0.015	0.06	6.9	7.3	0.16	5120	1.94
ZZ45646		4.55	14.4	2.73	7.52	0.06	<0.02	0.04	0.027	0.07	19.2	21.8	0.51	295	1.35
ZZ45647		2.92	13.8	1.11	4.32	<0.05	<0.02	0.08	0.012	0.05	9.2	7.7	0.15	99	1.12
ZZ45648		2.98	12.5	2.03	5.17	0.07	0.04	0.05	0.023	0.11	28.7	18.9	0.39	461	0.94
ZZ45649		3.57	11.3	2.01	4.70	0.08	0.06	0.06	0.023	0.13	29.8	16.5	0.39	395	0.88
ZZ45650		3.82	10.4	1.91	4.89	0.06	0.02	0.05	0.026	0.11	30.1	16.9	0.37	316	0.77
ZZ45683		1.85	30.2	2.27	4.39	0.06	0.02	0.02	0.020	0.06	15.5	15.2	0.43	261	7.51
ZZ45709		0.92	8.3	0.84	2.29	<0.05	<0.02	0.03	0.007	0.03	2.8	2.1	0.07	51	2.43
ZZ45710		1.90	28.7	2.73	4.63	0.05	0.07	0.03	0.024	0.06	15.3	16.4	0.47	369	5.21
ZZ45711		1.30	13.9	1.98	5.33	<0.05	<0.02	0.04	0.018	0.05	13.1	7.8	0.21	225	3.47
ZZ45712		0.44	7.5	0.44	1.05	<0.05	0.02	0.03	<0.005	0.03	1.3	1.0	0.04	67	0.16
ZZ45713		3.85	27.7	1.06	3.10	<0.05	<0.02	0.02	0.010	0.04	4.5	15.4	0.43	102	0.84
ZZ45714		8.32	46.7	1.67	4.04	0.05	0.02	0.04	0.010	0.11	8.2	36.8	1.12	424	0.92
ZZ45715		4.69	161.0	1.39	2.74	0.06	0.02	0.05	0.005	0.04	8.3	12.5	0.50	253	0.47
ZZ45716		2.41	27.7	0.42	1.39	<0.05	0.02	0.03	<0.005	0.03	4.9	3.6	0.12	52	0.45
ZZ45717		3.59	29.2	0.86	2.79	<0.05	<0.02	0.03	0.005	0.04	6.6	4.0	0.08	41	2.00





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**CERTIFICATE OF ANALYSIS WH12172342**

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
ZZ45621		0.20	3.5	610	3.5	6.1	<0.001	0.05	0.36	0.2	<0.2	0.5	8.2	<0.01	0.03	<0.2
ZZ45622		1.77	19.7	760	21.5	22.7	<0.001	0.05	1.55	7.6	1.0	1.5	21.8	<0.01	0.03	4.2
ZZ45623		0.68	13.0	790	12.4	23.5	<0.001	0.07	1.13	1.3	0.8	1.3	23.7	<0.01	0.03	0.2
ZZ45624		0.65	10.5	720	12.3	16.5	<0.001	0.05	0.82	1.0	0.3	0.9	12.0	<0.01	0.03	0.3
ZZ45625		1.54	9.4	750	12.9	15.5	<0.001	0.01	0.83	3.4	0.5	0.9	20.0	<0.01	0.02	6.6
ZZ45626		1.73	11.4	840	30.8	23.6	0.001	0.01	0.81	4.0	0.4	1.3	17.3	<0.01	0.02	8.0
ZZ45627		0.78	14.1	880	21.8	21.0	<0.001	0.06	1.09	1.6	0.5	1.3	19.6	<0.01	0.02	0.6
ZZ45628		0.19	3.2	530	2.7	4.0	<0.001	0.06	0.21	0.4	<0.2	0.3	11.7	<0.01	<0.01	<0.2
ZZ45629		1.30	6.6	660	22.7	12.3	0.001	0.04	0.48	2.2	0.4	0.9	13.9	<0.01	<0.01	2.4
ZZ45630		0.52	9.0	780	10.6	41.7	<0.001	0.09	0.74	0.5	0.2	0.9	13.2	<0.01	0.02	<0.2
ZZ45631		0.42	1.6	510	1.7	4.7	<0.001	0.04	0.13	0.3	<0.2	0.2	15.1	<0.01	0.01	0.2
ZZ45632		0.25	1.8	310	1.4	2.2	<0.001	0.03	0.10	0.3	<0.2	<0.2	9.3	<0.01	<0.01	0.2
ZZ45633		0.28	8.7	1740	21.0	11.7	<0.001	0.13	0.61	0.5	0.5	0.9	21.8	<0.01	0.03	0.2
ZZ45634		0.45	3.9	900	25.8	7.6	<0.001	0.08	0.43	0.6	0.5	0.3	13.9	0.01	0.01	0.3
ZZ45635		0.27	7.9	760	7.9	8.8	<0.001	0.08	0.55	0.4	0.4	0.5	13.3	<0.01	0.01	<0.2
ZZ45636		1.59	14.5	580	17.2	12.1	<0.001	0.05	0.92	2.2	0.7	0.8	16.0	0.01	0.04	1.8
ZZ45637		2.19	10.6	390	18.1	11.6	<0.001	0.04	0.75	2.5	0.2	0.8	9.8	0.01	0.03	3.4
ZZ45638		0.47	2.5	480	5.1	5.3	<0.001	0.03	0.20	0.5	<0.2	0.2	11.0	<0.01	0.01	0.3
ZZ45639		0.36	10.4	820	14.0	16.0	<0.001	0.08	0.91	0.4	0.5	0.8	22.6	<0.01	0.04	<0.2
ZZ45640		0.32	9.8	1050	16.3	11.4	<0.001	0.08	0.53	0.6	0.2	0.5	18.0	<0.01	<0.01	0.2
ZZ45641		0.12	1.4	330	1.7	1.8	0.001	0.03	0.09	0.1	0.2	0.2	7.8	<0.01	<0.01	<0.2
ZZ45642		2.66	13.1	290	13.6	25.1	<0.001	0.03	1.02	2.6	0.3	1.1	7.5	<0.01	0.04	3.9
ZZ45643		1.61	9.0	250	12.3	11.4	0.001	0.03	0.80	1.6	0.2	0.7	8.2	<0.01	0.03	2.5
ZZ45644		1.37	24.9	630	22.5	23.2	0.001	0.06	1.21	2.9	1.0	1.1	22.7	<0.01	0.04	1.3
ZZ45645		0.27	10.4	1660	21.1	15.9	<0.001	0.15	0.66	0.4	0.6	0.4	24.3	<0.01	0.04	0.2
ZZ45646		0.88	16.0	880	37.5	14.5	<0.001	0.07	0.87	1.2	0.3	0.7	14.1	<0.01	0.01	0.5
ZZ45647		0.49	7.1	640	21.3	10.7	0.001	0.06	1.19	0.4	0.4	0.7	7.9	<0.01	<0.01	<0.2
ZZ45648		1.76	13.5	750	20.4	14.9	0.001	0.02	1.05	3.8	0.8	1.0	17.6	<0.01	0.02	8.5
ZZ45649		1.40	10.4	840	14.0	16.1	<0.001	0.02	1.05	3.9	0.8	0.9	22.3	<0.01	0.02	10.6
ZZ45650		1.43	10.1	850	12.5	15.9	<0.001	0.02	0.93	3.7	0.7	0.9	17.6	<0.01	0.01	6.9
ZZ45683		1.46	35.6	670	25.5	9.7	0.001	0.03	5.69	2.8	1.1	0.7	28.5	<0.01	0.03	2.7
ZZ45709		0.24	6.3	370	8.9	3.1	<0.001	0.04	1.04	0.2	<0.2	0.3	7.9	<0.01	0.01	<0.2
ZZ45710		1.35	48.7	960	19.2	9.8	<0.001	0.02	2.78	3.1	1.0	0.5	21.6	<0.01	0.03	4.2
ZZ45711		1.28	18.8	520	15.0	8.0	0.001	0.03	1.48	1.9	0.9	0.6	9.9	0.01	0.04	1.9
ZZ45712		0.25	5.1	240	1.2	1.7	<0.001	0.04	0.36	0.3	0.2	<0.2	12.7	<0.01	0.02	<0.2
ZZ45713		1.56	14.9	290	6.9	4.8	<0.001	0.04	0.64	1.2	0.3	0.3	12.7	<0.01	0.02	<0.2
ZZ45714		2.88	77.0	1070	11.1	14.1	0.002	0.07	1.42	2.9	1.7	0.2	27.0	<0.01	<0.01	0.6
ZZ45715		0.91	61.6	1060	41.1	4.8	0.002	0.07	3.07	1.6	2.2	0.2	21.9	<0.01	<0.01	0.3
ZZ45716		0.42	12.3	460	6.6	3.0	0.002	0.05	5.05	0.6	1.4	<0.2	15.4	<0.01	0.01	0.2
ZZ45717		0.79	4.7	400	4.6	4.3	0.001	0.04	0.65	0.5	0.4	0.3	8.9	0.01	0.01	<0.2



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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
ZZ45621		0.012	0.12	0.66	17	0.14	1.87	16	<0.5
ZZ45622		0.037	0.52	3.68	81	0.52	19.25	102	1.0
ZZ45623		0.026	0.26	3.53	56	0.48	15.35	74	<0.5
ZZ45624		0.033	0.17	1.49	40	0.43	6.04	66	<0.5
ZZ45625		0.068	0.15	1.63	30	0.41	12.40	50	0.8
ZZ45626		0.092	0.22	1.58	35	4.15	13.40	70	0.9
ZZ45627		0.035	0.23	3.85	49	4.12	8.32	87	<0.5
ZZ45628		0.022	0.05	2.20	19	0.92	3.17	20	<0.5
ZZ45629		0.055	0.11	2.18	25	2.83	8.28	75	0.5
ZZ45630		0.026	0.16	0.74	34	0.35	2.85	63	<0.5
ZZ45631		0.020	0.03	0.24	8	0.10	0.98	12	0.7
ZZ45632		0.032	0.02	0.19	20	0.07	0.97	14	<0.5
ZZ45633		0.013	0.16	1.58	35	0.63	5.40	68	<0.5
ZZ45634		0.018	0.07	1.28	15	0.38	9.95	25	0.8
ZZ45635		0.022	0.11	1.64	36	0.47	6.66	40	<0.5
ZZ45636		0.040	0.15	1.33	41	0.33	6.64	75	0.6
ZZ45637		0.050	0.14	0.65	40	0.34	3.19	48	0.9
ZZ45638		0.027	0.04	0.29	16	0.16	1.70	14	<0.5
ZZ45639		0.019	0.15	0.86	44	0.40	3.84	49	<0.5
ZZ45640		0.026	0.09	1.12	38	0.46	6.31	55	<0.5
ZZ45641		0.018	0.03	0.29	15	0.05	0.68	7	<0.5
ZZ45642		0.096	0.13	0.61	62	1.15	2.88	58	1.0
ZZ45643		0.070	0.10	0.55	43	0.93	2.46	41	0.6
ZZ45644		0.063	0.20	1.95	60	0.61	10.70	89	<0.5
ZZ45645		0.015	0.65	1.38	34	0.29	3.29	54	0.5
ZZ45646		0.041	0.18	1.89	57	0.32	7.20	63	<0.5
ZZ45647		0.024	0.14	0.71	27	0.23	2.51	38	<0.5
ZZ45648		0.077	0.16	1.61	37	0.38	11.95	65	1.4
ZZ45649		0.082	0.18	1.67	37	0.30	13.65	62	2.7
ZZ45650		0.062	0.19	1.97	35	0.67	13.00	59	0.7
ZZ45683		0.063	0.24	2.86	107	0.29	8.40	58	1.1
ZZ45709		0.026	0.09	0.62	42	0.17	0.94	23	<0.5
ZZ45710		0.057	0.16	1.69	81	0.29	6.74	90	2.9
ZZ45711		0.049	0.16	1.11	66	0.36	4.15	54	0.6
ZZ45712		0.022	0.06	0.13	13	<0.05	0.89	5	0.7
ZZ45713		0.065	0.09	0.35	40	0.12	2.47	22	<0.5
ZZ45714		0.083	0.31	1.12	52	0.14	5.46	50	0.9
ZZ45715		0.048	0.24	1.13	40	0.07	5.76	87	0.7
ZZ45716		0.016	0.15	0.36	9	0.05	2.34	10	0.7
ZZ45717		0.042	0.10	0.38	26	0.11	1.79	13	<0.5



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**CERTIFICATE OF ANALYSIS WH12172342**

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
ZZ45718		0.21	<0.001	0.08	0.37	2.0	<0.2	<10	30	0.10	0.04	0.04	0.04	3.59	1.9	5
ZZ45719		0.23	<0.001	0.19	0.80	2.5	<0.2	<10	110	0.22	0.13	0.09	0.15	7.83	2.8	3
ZZ45720		0.35	0.001	0.17	2.83	20.1	<0.2	<10	400	1.13	0.35	0.54	0.27	39.7	15.8	37
ZZ45721		0.28	0.001	0.09	0.83	23.4	<0.2	<10	60	0.14	0.35	0.08	0.23	22.1	3.4	21
ZZ45722		0.29	0.003	0.51	2.11	22.3	<0.2	<10	120	0.48	0.99	0.18	0.38	23.5	6.4	88
ZZ45723		0.36	0.002	2.02	0.77	66.3	<0.2	<10	60	0.35	7.00	0.19	1.22	19.15	3.2	29
ZZ45724		0.26	0.001	0.06	0.25	1.9	<0.2	<10	40	0.05	0.06	0.24	2.31	2.57	1.3	4
ZZ45725		0.27	<0.001	1.05	0.25	5.8	<0.2	<10	40	0.13	1.63	0.63	4.68	2.84	1.9	5
ZZ45726		0.43	0.001	0.39	1.58	9.7	<0.2	<10	210	0.39	0.96	0.46	0.47	24.3	9.0	62
ZZ45727		0.32	<0.001	0.15	0.66	9.8	<0.2	<10	80	0.16	0.25	0.06	0.35	25.6	1.9	12
ZZ45728		0.22	0.014	0.33	3.92	33.0	<0.2	<10	490	0.86	0.21	2.39	0.36	42.4	31.8	277
ZZ45729		0.23	0.002	0.43	0.86	8.3	<0.2	<10	160	0.47	0.14	0.93	1.03	19.65	4.0	13
ZZ45730		0.27	0.001	0.18	1.18	8.3	<0.2	<10	140	0.43	0.12	0.22	0.26	29.9	5.6	19
ZZ45731		0.46	0.001	0.25	1.46	11.2	<0.2	<10	230	0.57	0.15	0.62	0.27	40.4	8.0	34
ZZ45732		0.29	0.003	0.91	1.49	45.1	<0.2	<10	190	0.68	0.15	0.58	1.78	22.3	6.2	36
ZZ45733		0.26	<0.001	0.48	0.51	7.6	<0.2	<10	50	0.27	0.03	0.17	0.29	8.74	1.8	6
ZZ45734		0.43	0.001	0.71	1.62	53.4	<0.2	<10	200	0.76	0.15	0.70	0.90	33.8	7.4	45
ZZ45735		0.39	0.001	1.20	2.32	78.4	<0.2	<10	210	1.22	0.23	1.30	1.61	35.3	14.5	117
ZZ45736		0.38	0.001	0.85	1.63	35.2	<0.2	<10	160	0.95	0.18	0.65	1.09	29.8	5.8	31
ZZ45737		0.31	0.003	0.79	1.79	42.0	<0.2	<10	220	0.72	0.21	0.90	1.37	32.2	10.7	66
ZZ45738		0.33	0.001	1.10	1.72	95.7	<0.2	<10	270	0.88	0.24	0.89	2.79	35.6	8.0	34
ZZ45739		0.43	0.002	0.96	1.56	81.2	<0.2	<10	180	0.82	0.29	0.89	2.56	34.9	8.9	47
ZZ45740		0.23	<0.001	0.16	0.27	4.2	<0.2	<10	50	0.10	0.04	0.47	0.26	5.03	1.3	4
ZZ45741		0.22	<0.001	0.54	1.47	39.0	<0.2	<10	140	0.68	0.23	1.42	1.04	28.8	8.2	47
ZZ45742		0.30	0.007	0.55	0.95	55.9	<0.2	<10	90	0.43	0.47	1.55	3.59	16.75	4.9	29
ZZ45743		0.17	0.017	0.42	0.70	11.7	<0.2	<10	200	0.38	0.12	2.60	4.43	9.04	4.1	17
ZZ45744		0.28	<0.001	0.31	0.55	7.4	<0.2	<10	100	0.24	0.05	0.78	0.84	5.34	2.4	17
ZZ45745		0.21	<0.001	0.12	0.48	3.3	<0.2	<10	80	0.13	0.03	0.72	0.32	3.88	1.9	9
ZZ45746		0.25	0.002	0.22	0.42	3.6	<0.2	<10	70	0.14	0.08	0.82	0.69	4.44	2.0	9
ZZ45747		0.41	0.001	0.33	1.96	17.5	<0.2	<10	200	0.80	0.19	1.37	0.53	27.6	11.2	55
ZZ45748		0.37	0.007	1.20	2.29	164.5	<0.2	<10	200	1.08	0.35	1.49	0.98	38.9	17.0	85
ZZ45749		0.24	0.001	0.22	1.07	13.2	<0.2	<10	80	0.28	0.07	1.27	0.68	7.32	6.1	42
ZZ45750		0.21	0.009	1.25	0.92	74.0	<0.2	<10	100	0.88	0.28	0.93	3.93	16.45	10.0	25
ZZ45751		0.27	<0.001	0.24	0.32	2.5	<0.2	<10	60	0.08	0.04	0.63	0.55	3.26	1.0	4
ZZ45752		0.25	0.004	1.95	1.10	105.5	<0.2	<10	160	0.49	0.17	1.53	0.61	25.1	7.3	32
ZZ45753		0.29	0.003	0.46	0.59	18.5	<0.2	<10	110	0.27	0.11	1.10	0.92	8.69	2.8	14
ZZ45754		0.35	0.002	0.77	1.74	61.7	<0.2	<10	250	0.75	0.25	1.38	1.27	26.8	9.8	71
ZZ45755		0.37	0.001	0.39	1.45	46.3	<0.2	<10	150	0.39	0.39	1.26	1.03	21.1	9.9	70
ZZ45756		0.32	0.002	0.67	1.28	86.0	<0.2	<10	160	0.66	0.24	1.15	0.72	22.4	7.6	31
ZZ45757		0.32	0.002	0.74	0.79	27.3	<0.2	<10	90	0.33	0.10	0.38	0.48	12.25	3.9	12



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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
ZZ45718		1.91	7.6	0.78	2.06	<0.05	<0.02	<0.01	<0.005	0.04	1.8	3.0	0.09	39	0.46
ZZ45719		5.28	34.8	1.08	3.37	<0.05	<0.02	0.02	0.005	0.09	4.2	5.2	0.23	47	0.84
ZZ45720		24.2	67.2	3.61	9.18	0.06	0.03	0.03	0.020	0.31	22.7	53.3	1.35	250	2.17
ZZ45721		3.20	11.5	1.70	8.47	<0.05	0.04	0.01	0.009	0.06	12.4	7.6	0.25	155	2.72
ZZ45722		5.61	15.6	3.57	9.79	0.06	0.07	0.03	0.013	0.24	12.4	49.5	1.25	251	1.71
ZZ45723		3.00	35.6	1.49	4.85	<0.05	0.04	0.02	0.011	0.04	11.1	10.3	0.19	92	2.50
ZZ45724		0.27	11.1	0.32	0.97	<0.05	0.02	0.01	<0.005	0.02	1.3	0.9	0.04	26	0.16
ZZ45725		0.56	30.7	0.43	1.01	<0.05	<0.02	0.02	<0.005	0.03	1.6	1.0	0.04	71	0.12
ZZ45726		7.19	19.8	1.92	4.85	0.07	0.03	0.02	0.010	0.22	11.7	29.9	1.12	203	0.52
ZZ45727		2.31	16.7	1.15	6.24	<0.05	<0.02	0.02	0.008	0.04	13.4	3.5	0.12	74	1.76
ZZ45728		25.8	62.4	4.36	9.47	0.13	0.19	0.03	0.022	0.83	21.9	106.0	4.39	592	0.70
ZZ45729		1.51	34.8	1.03	2.69	<0.05	0.06	0.05	0.009	0.05	10.7	7.7	0.21	316	0.72
ZZ45730		1.91	19.2	1.44	3.80	0.05	0.02	0.04	0.013	0.07	14.3	13.2	0.34	226	0.66
ZZ45731		3.37	21.9	1.95	4.92	0.08	0.02	0.05	0.016	0.13	19.6	21.1	0.69	343	1.14
ZZ45732		5.08	24.6	1.75	5.18	<0.05	<0.02	0.06	0.013	0.09	11.8	19.9	0.57	367	1.16
ZZ45733		0.87	11.0	0.47	1.56	<0.05	0.02	0.03	0.005	0.03	5.0	2.1	0.06	130	0.47
ZZ45734		4.97	32.1	2.04	4.99	0.07	0.04	0.06	0.015	0.11	19.0	23.1	0.74	274	1.37
ZZ45735		10.55	52.2	2.77	6.82	0.08	0.07	0.07	0.021	0.19	19.7	45.3	1.58	424	1.07
ZZ45736		6.94	39.8	1.91	5.13	0.06	0.05	0.08	0.018	0.10	19.1	19.9	0.57	193	1.10
ZZ45737		5.52	33.3	2.43	5.73	0.08	0.05	0.07	0.022	0.11	18.5	26.0	0.86	281	0.67
ZZ45738		4.83	39.5	2.52	5.33	0.08	0.07	0.08	0.023	0.10	22.0	25.1	0.57	334	1.13
ZZ45739		8.29	39.2	2.52	5.07	0.09	0.05	0.08	0.017	0.11	23.1	24.7	0.74	505	1.33
ZZ45740		1.14	6.9	0.43	1.06	<0.05	0.02	0.03	<0.005	0.03	2.7	1.3	0.05	60	0.31
ZZ45741		12.90	62.0	1.80	4.05	0.06	0.05	0.06	0.014	0.08	17.0	20.1	0.65	400	0.85
ZZ45742		10.40	39.2	1.38	2.77	0.06	0.04	0.07	0.009	0.08	10.2	12.3	0.34	295	0.83
ZZ45743		2.60	46.0	0.79	1.86	<0.05	0.05	0.08	0.006	0.04	5.5	3.6	0.16	492	0.43
ZZ45744		2.52	19.4	0.68	1.74	<0.05	0.03	0.04	<0.005	0.04	4.4	4.4	0.19	81	0.31
ZZ45745		0.80	13.7	0.58	1.50	<0.05	0.03	0.02	<0.005	0.03	2.1	1.8	0.11	87	0.18
ZZ45746		2.06	15.6	0.51	1.43	<0.05	0.02	0.03	<0.005	0.03	2.7	2.6	0.11	127	0.21
ZZ45747		7.79	33.1	2.06	5.95	0.07	0.05	0.05	0.017	0.17	13.5	25.8	0.91	349	0.62
ZZ45748		21.2	95.7	3.06	7.41	0.11	0.10	0.06	0.025	0.30	22.0	48.1	1.52	503	2.07
ZZ45749		5.71	60.2	1.12	2.92	<0.05	0.03	0.05	0.008	0.08	4.2	21.8	0.61	234	0.39
ZZ45750		1.45	199.5	1.34	2.46	0.06	0.06	0.13	0.009	0.03	11.7	3.6	0.15	937	2.99
ZZ45751		1.27	17.1	0.36	1.25	<0.05	<0.02	0.03	<0.005	0.03	1.7	0.8	0.04	27	0.26
ZZ45752		4.71	38.7	1.58	3.84	<0.05	0.04	0.18	0.017	0.09	13.0	16.5	0.45	300	0.61
ZZ45753		3.39	39.5	0.76	1.98	<0.05	0.04	0.05	0.007	0.05	5.6	5.6	0.22	98	0.43
ZZ45754		8.55	50.9	2.14	4.53	0.06	0.03	0.08	0.014	0.22	14.6	30.3	0.99	346	1.29
ZZ45755		11.30	41.2	1.96	5.53	0.06	0.09	0.04	0.016	0.14	11.4	27.7	1.00	301	4.00
ZZ45756		9.93	73.5	1.56	3.73	0.06	0.05	0.07	0.015	0.07	12.8	16.6	0.50	328	2.53
ZZ45757		3.96	25.7	1.07	2.58	<0.05	0.02	0.04	0.008	0.05	5.5	7.3	0.14	173	1.62



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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
ZZ45718		0.76	3.1	180	2.6	3.4	<0.001	0.02	0.34	0.4	<0.2	0.2	7.3	<0.01	<0.01
ZZ45719		1.30	4.6	370	8.1	7.9	0.001	0.04	0.62	0.3	0.4	0.3	14.6	<0.01	<0.01
ZZ45720		6.75	34.6	1100	35.4	31.8	<0.001	0.05	4.76	3.9	0.8	0.7	117.0	<0.01	0.03
ZZ45721		4.85	12.2	240	18.8	12.3	<0.001	0.02	1.44	1.6	0.2	1.1	6.9	<0.01	0.02
ZZ45722		9.95	45.8	340	29.6	25.0	<0.001	0.03	1.31	2.6	0.3	1.1	10.1	<0.01	0.03
ZZ45723		11.20	18.8	190	574	7.7	<0.001	0.03	1.15	1.5	1.2	0.7	10.1	0.01	0.05
ZZ45724		0.31	4.3	210	10.7	0.9	<0.001	0.05	0.15	0.2	1.3	<0.2	11.4	<0.01	0.01
ZZ45725		0.48	5.5	230	155.5	2.7	<0.001	0.04	0.21	0.4	1.8	<0.2	15.1	<0.01	0.01
ZZ45726		4.24	39.4	630	57.9	25.1	<0.001	0.03	0.86	3.0	0.5	0.5	18.1	<0.01	0.03
ZZ45727		1.23	7.5	220	14.3	15.5	<0.001	0.03	0.95	0.9	0.3	0.8	7.9	<0.01	0.02
ZZ45728		9.87	133.0	1830	41.3	64.3	0.001	0.05	2.72	13.8	0.9	0.6	36.4	0.01	0.01
ZZ45729		0.78	15.4	780	19.4	8.6	0.001	0.09	5.31	1.3	2.8	0.3	23.2	<0.01	0.01
ZZ45730		1.45	15.5	540	12.8	9.1	<0.001	0.03	0.87	2.1	0.5	0.5	14.1	<0.01	<0.01
ZZ45731		2.15	25.3	980	17.9	19.0	<0.001	0.03	1.20	3.0	0.5	0.6	28.0	<0.01	0.01
ZZ45732		1.11	24.2	980	74.3	20.1	<0.001	0.09	1.00	1.2	0.7	0.5	25.4	<0.01	0.01
ZZ45733		0.33	4.5	400	44.4	3.2	<0.001	0.05	0.25	0.4	<0.2	<0.2	11.2	<0.01	0.01
ZZ45734		2.13	32.9	920	49.4	19.2	<0.001	0.06	1.69	2.9	1.2	0.6	29.6	<0.01	0.02
ZZ45735		4.02	70.9	870	121.0	26.0	<0.001	0.08	2.11	4.8	2.0	0.5	39.7	0.01	0.02
ZZ45736		1.37	25.9	930	31.4	20.8	<0.001	0.06	1.62	2.7	1.3	0.5	29.3	<0.01	0.02
ZZ45737		2.29	47.8	850	55.5	24.6	0.001	0.06	1.56	4.2	1.4	0.6	31.8	0.01	0.02
ZZ45738		2.14	31.6	890	72.0	23.0	0.003	0.07	2.72	3.9	2.5	0.6	31.3	<0.01	0.01
ZZ45739		2.37	36.2	870	112.0	23.0	0.001	0.06	2.63	3.8	1.9	0.6	30.9	<0.01	0.01
ZZ45740		0.31	2.9	440	4.8	2.8	<0.001	0.05	0.49	0.4	0.6	<0.2	16.5	<0.01	<0.01
ZZ45741		1.73	35.9	890	41.4	15.1	0.001	0.11	7.43	2.2	2.8	0.4	23.8	0.01	0.01
ZZ45742		1.05	18.0	790	118.5	11.0	0.003	0.12	2.11	1.3	4.0	0.3	24.9	<0.01	0.01
ZZ45743		0.81	18.3	820	32.0	6.6	<0.001	0.13	1.34	0.8	1.8	<0.2	37.4	0.01	0.01
ZZ45744		0.68	10.5	590	34.8	4.6	<0.001	0.07	0.32	0.6	0.6	<0.2	18.0	<0.01	0.01
ZZ45745		0.43	5.9	450	5.3	2.4	<0.001	0.05	0.24	0.3	0.3	<0.2	17.9	<0.01	0.01
ZZ45746		0.42	6.8	450	22.3	2.8	<0.001	0.06	0.32	0.4	0.7	<0.2	18.1	<0.01	<0.01
ZZ45747		3.01	37.5	720	57.8	20.5	<0.001	0.05	1.04	3.9	0.7	0.5	35.6	<0.01	0.02
ZZ45748		4.90	73.4	1290	66.2	43.8	0.001	0.05	4.86	6.4	2.0	0.9	37.0	0.01	0.03
ZZ45749		0.72	27.2	680	10.6	7.1	<0.001	0.07	0.89	1.5	1.7	<0.2	22.8	<0.01	0.01
ZZ45750		0.80	26.1	1510	194.5	2.6	0.001	0.12	2.62	1.2	5.4	<0.2	23.5	0.01	0.02
ZZ45751		0.46	5.3	240	4.1	3.3	<0.001	0.05	0.26	0.3	0.5	<0.2	19.8	<0.01	0.01
ZZ45752		1.63	44.3	660	16.7	25.2	0.001	0.08	2.94	2.8	1.8	0.4	25.8	<0.01	0.02
ZZ45753		0.63	13.7	690	17.8	6.4	0.001	0.08	1.28	0.9	2.0	0.2	24.7	<0.01	0.01
ZZ45754		2.56	47.9	990	72.0	23.1	0.003	0.09	2.84	3.1	1.8	0.4	38.1	0.01	0.02
ZZ45755		6.17	39.4	450	40.2	27.0	0.002	0.07	3.35	3.6	1.2	0.6	31.6	0.01	0.02
ZZ45756		1.22	30.4	1150	41.4	11.3	0.004	0.10	7.47	1.6	3.3	0.4	31.9	0.01	0.01
ZZ45757		0.39	13.2	700	14.7	6.6	0.004	0.04	2.39	0.9	1.8	0.2	15.2	<0.01	0.01



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**CERTIFICATE OF ANALYSIS WH12172342**

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
ZZ45718		0.041	0.04	0.15	21	0.06	0.54	11	<0.5
ZZ45719		0.045	0.12	0.25	30	0.09	1.05	15	<0.5
ZZ45720		0.158	0.33	0.65	93	0.32	6.05	65	1.0
ZZ45721		0.145	0.17	0.54	81	0.47	1.85	40	1.8
ZZ45722		0.302	0.42	0.54	116	0.54	2.68	77	3.7
ZZ45723		0.292	0.29	0.40	69	0.36	1.77	97	1.9
ZZ45724		0.020	0.04	0.12	8	<0.05	0.59	22	0.7
ZZ45725		0.029	0.08	0.13	13	0.08	0.79	58	<0.5
ZZ45726		0.169	0.44	0.47	55	0.34	4.78	104	0.9
ZZ45727		0.058	0.14	0.48	41	0.34	2.09	28	<0.5
ZZ45728		0.333	0.51	0.44	146	0.31	10.20	57	7.0
ZZ45729		0.033	0.14	1.32	27	1.06	6.08	29	2.0
ZZ45730		0.054	0.12	0.65	34	0.21	6.30	45	0.5
ZZ45731		0.091	0.21	0.89	52	0.28	9.72	56	0.6
ZZ45732		0.040	0.20	0.91	43	0.27	5.64	103	<0.5
ZZ45733		0.020	0.06	0.37	11	0.06	2.75	13	0.5
ZZ45734		0.078	0.26	1.45	56	0.31	9.62	93	1.1
ZZ45735		0.119	0.37	2.30	76	0.31	13.55	128	2.1
ZZ45736		0.054	0.20	2.00	53	0.32	13.40	107	1.5
ZZ45737		0.083	0.26	1.67	69	0.22	11.55	131	1.7
ZZ45738		0.066	0.24	2.71	55	0.30	13.55	154	2.1
ZZ45739		0.087	0.29	2.60	63	0.24	14.65	228	1.5
ZZ45740		0.020	0.04	0.43	12	0.05	1.59	16	0.8
ZZ45741		0.050	0.56	1.98	47	0.38	8.99	91	1.2
ZZ45742		0.044	0.26	1.25	44	0.15	6.02	142	1.2
ZZ45743		0.031	0.25	0.54	18	0.10	3.48	41	1.9
ZZ45744		0.031	0.12	0.34	17	0.05	2.66	30	0.8
ZZ45745		0.030	0.11	0.23	18	<0.05	1.00	12	1.0
ZZ45746		0.024	0.09	0.27	14	0.05	1.58	19	0.9
ZZ45747		0.100	0.30	1.00	53	0.24	7.01	55	1.8
ZZ45748		0.151	0.92	1.69	93	0.84	13.85	156	3.2
ZZ45749		0.034	0.22	0.29	30	0.05	4.71	41	1.1
ZZ45750		0.026	0.32	1.09	27	0.13	7.13	51	1.7
ZZ45751		0.023	0.07	0.15	10	<0.05	0.63	14	0.6
ZZ45752		0.048	0.75	1.79	38	0.21	6.59	46	1.3
ZZ45753		0.028	0.21	1.46	24	0.08	3.89	47	1.2
ZZ45754		0.081	0.40	2.94	61	0.21	9.59	106	1.1
ZZ45755		0.162	0.31	1.40	70	0.35	4.58	73	2.6
ZZ45756		0.035	0.37	4.21	81	0.12	10.45	76	1.3
ZZ45757		0.029	0.17	1.62	37	0.09	4.10	42	0.6



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**CERTIFICATE OF ANALYSIS WH12172342**

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
ZZ45758		0.32	0.005	0.52	2.29	61.3	<0.2	<10	120	0.46	0.27	0.47	0.60	29.7	16.4	142
ZZ45759		0.31	<0.001	0.15	1.18	21.2	<0.2	<10	90	0.18	0.28	0.17	0.33	25.4	4.7	45
ZZ45761		0.41	0.001	0.56	4.09	43.0	<0.2	<10	410	1.35	0.35	2.16	1.04	49.8	36.7	394





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**CERTIFICATE OF ANALYSIS WH12172342**

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
ZZ45758		9.55	25.5	3.66	7.90	0.07	0.07	0.05	0.022	0.21	13.3	51.7	2.05	413	2.38
ZZ45759		6.73	10.1	2.06	7.73	0.05	0.04	0.02	0.014	0.14	13.1	13.2	0.56	212	2.03
ZZ45761		27.4	56.8	5.44	9.99	0.16	0.22	0.04	0.025	0.98	24.7	60.7	4.51	1200	1.37
															0.01
															0.01
															0.02



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**CERTIFICATE OF ANALYSIS WH12172342**

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	ME-MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		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	ppm 0.2
ZZ45758		6.42	77.3	670	59.7	25.5	<0.001	0.02	3.09	5.7	0.7	0.8	14.9	<0.01	0.03	2.4
ZZ45759		4.90	19.8	260	32.0	30.0	<0.001	0.01	2.21	2.6	0.4	0.9	10.8	<0.01	0.03	2.5
ZZ45761		6.39	169.5	2460	43.6	89.5	0.001	0.02	6.72	12.4	1.0	0.7	31.5	<0.01	0.02	4.0



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**CERTIFICATE OF ANALYSIS WH12172342**

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
ZZ45758		0.217	0.34	0.64	120	0.69	4.73	139	2.6
ZZ45759		0.186	0.31	0.48	92	0.56	2.47	59	1.4
ZZ45761		0.282	1.25	0.72	155	0.41	14.05	86	6.3



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**CERTIFICATE OF ANALYSIS WH12172342**

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