



ALS Canada Ltd.  
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North Vancouver BC V7H 0A7  
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To: **NORTHERN TIGER RESOURCES**  
**220 - 17010 103RD AVE.**  
**EDMONTON AB T5S 1K7**

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Finalized Date: 19-AUG-2011  
Account: NOTIRE

**CERTIFICATE WH11134758**

**Project:**

P.O. No.: Batch 2

This report is for 108 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 15-JUL-2011.

The following have access to data associated with this certificate:

G. HAYES

DENNIS OUELLETTE

BONNIE POLLRIES

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP22	Au 50g FA ICP-AES finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

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**ATTN: G. HAYES**  
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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.

**Signature:**

  
Colin Ramshaw, Vancouver Laboratory Manager



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# CERTIFICATE OF ANALYSIS WH11134758

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP22 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
I038399		4.34	0.021	0.23	7.03	6.9	1310	1.50	0.67	1.70	0.18	39.9	6.1	15	2.77	123.5
I038400		3.94	0.023	0.26	7.19	3.7	1190	1.47	0.62	1.98	0.12	37.3	4.7	15	2.22	171.0
I038401		4.54	0.007	0.11	7.19	7.6	990	1.61	0.70	1.57	0.21	39.8	6.7	16	2.31	18.3
I038402		4.58	0.012	0.13	7.19	4.4	990	1.53	0.70	1.79	0.17	40.3	5.6	19	2.72	48.7
I038403		4.38	0.037	0.29	7.33	47.2	1110	1.62	0.43	2.03	0.22	37.3	5.5	18	4.16	98.5
I038404		3.88	0.109	11.10	7.20	360	950	1.55	2.08	2.20	0.55	43.2	8.0	16	4.38	125.0
I038405		3.78	0.019	0.36	7.23	9.0	700	1.45	0.85	2.23	0.25	38.3	7.0	14	4.21	62.4
I038406		4.17	0.027	0.32	7.07	12.9	1080	1.51	1.36	2.37	0.13	45.0	6.6	14	4.12	136.5
I038407		4.92	0.018	0.21	6.91	5.4	1110	1.62	0.77	2.17	0.13	37.9	6.5	17	3.11	62.7
I038408		1.44	0.239	1.47	7.64	31.5	1790	1.14	7.03	0.10	0.06	46.4	0.9	9	5.51	18.7
I038409		0.83	0.222	1.08	7.77	42.3	1800	0.97	5.35	0.09	0.10	51.6	2.1	8	4.91	23.1
I038410		1.40	0.157	0.60	7.14	20.2	1210	0.98	4.82	0.42	0.34	51.9	3.5	8	6.30	26.6
I038411		2.50	0.171	0.77	7.08	28.3	1050	1.43	5.13	0.81	0.65	56.1	5.1	9	6.65	39.2
I038412		1.72	0.123	0.66	7.22	24.2	920	1.86	4.91	0.44	1.31	59.2	5.7	9	6.50	68.4
I038413		2.88	0.279	0.77	6.97	29.8	810	1.35	6.70	0.67	2.69	67.6	4.2	9	9.71	60.0
I038414		2.72	0.396	0.85	6.95	23.9	710	1.32	4.29	1.77	1.12	44.9	3.9	9	4.72	56.3
I038415		3.84	0.273	0.66	6.46	32.2	470	1.25	4.26	1.61	0.66	38.4	4.1	8	3.70	25.1
I038416		4.34	0.319	0.87	6.87	30.1	680	1.45	6.64	2.13	1.02	53.5	5.6	8	4.61	61.8
I038417		5.12	0.504	1.35	6.79	59.9	350	1.25	11.20	1.93	1.30	69.5	4.6	9	3.82	51.4
I038418		3.20	0.390	0.68	6.82	32.3	450	1.19	6.75	1.91	0.43	54.3	6.1	9	4.03	23.4
I038419		4.57	0.415	8.71	6.84	241	680	1.45	6.91	2.29	13.65	44.6	4.3	8	5.72	85.4
I038420		4.38	0.223	0.59	7.02	45.8	680	1.41	4.62	1.54	0.60	44.5	4.2	9	5.39	40.3
I038421		4.65	0.301	0.48	6.92	35.1	760	1.43	5.07	1.34	5.24	45.7	5.5	8	6.23	11.6
I038422		3.41	0.344	1.01	6.72	135.5	370	1.46	3.67	1.41	0.54	41.2	5.3	8	8.15	10.9
I038423		4.75	0.423	0.44	6.27	40.9	270	1.37	3.63	1.71	0.14	32.4	4.6	8	6.61	10.0
I038424		4.42	0.376	0.47	6.45	35.4	450	1.32	2.77	2.05	0.28	32.1	5.2	8	4.75	12.1
I038425		4.65	0.699	0.54	6.60	55.7	440	1.25	8.84	1.76	1.21	34.5	4.4	8	5.57	24.9
I038426		4.39	0.417	0.80	6.96	49.8	370	1.45	4.87	1.48	1.24	40.6	4.1	7	4.91	29.3
I038427		5.02	0.721	0.48	7.27	43.9	450	1.64	3.44	1.46	1.00	42.9	4.9	8	4.63	12.2
I038428		4.14	1.095	1.32	7.03	1830	400	1.65	3.49	1.51	1.32	48.0	5.2	8	5.28	16.9
I038429		4.91	0.441	0.47	6.68	36.8	300	1.53	3.96	2.19	0.16	37.0	4.7	7	4.12	10.3
I038430		3.83	0.334	0.89	6.34	59.3	330	1.58	3.87	2.62	0.64	30.2	4.9	8	3.94	16.4
I038431		5.07	0.353	3.56	6.41	190.5	310	1.48	3.89	2.27	0.91	37.7	5.2	7	3.98	22.2
I038432		4.63	0.418	0.81	6.42	99.6	240	1.25	4.90	2.07	0.22	42.9	7.0	8	3.21	23.8
I038433		5.29	0.926	0.63	6.77	86.1	320	1.51	5.02	2.01	0.19	42.0	12.0	8	6.30	10.1
I038434		3.63	1.025	0.83	6.46	58.3	520	1.24	5.92	1.95	0.54	32.1	7.3	7	4.49	8.7
I038435		4.37	1.465	1.01	6.65	83.1	120	1.42	6.19	2.24	1.88	35.0	7.2	12	5.45	17.6
I038436		3.70	0.441	1.79	6.81	77.0	220	1.65	5.59	2.21	1.83	38.9	6.8	12	5.20	21.2
I038437		5.31	0.486	0.53	6.71	37.5	490	1.61	8.19	2.37	0.12	35.4	7.2	12	4.97	17.2
I038438		4.06	0.918	0.94	6.74	72.6	170	1.48	12.25	2.26	0.20	38.5	7.9	11	4.45	16.0



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**CERTIFICATE OF ANALYSIS WH11134758**

Sample Description	Method Analyte Units LOR	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
I038399		2.42	18.35	0.10	1.3	0.026	2.94	20.7	7.0	0.68	136	20.4	2.63	7.2	5.5	500
I038400		2.27	18.00	0.08	1.3	0.032	2.66	19.0	6.4	0.68	143	4.93	2.58	7.1	4.7	520
I038401		2.69	18.30	0.11	1.4	0.012	2.80	20.2	7.5	0.70	117	14.20	2.78	7.4	5.4	520
I038402		2.72	17.80	0.10	1.5	0.017	2.78	20.5	9.0	0.73	126	5.34	2.70	7.2	5.0	530
I038403		2.35	18.65	0.09	1.4	0.037	2.86	18.7	10.8	0.73	174	5.85	2.47	7.5	4.9	540
I038404		3.20	18.25	0.12	1.3	0.035	2.57	21.9	11.8	0.78	144	8.47	2.34	6.8	5.6	580
I038405		3.42	18.55	0.13	1.2	0.024	3.06	19.3	11.0	0.74	126	7.97	2.09	6.1	5.3	580
I038406		2.39	18.75	0.11	1.2	0.039	2.88	23.6	11.9	0.74	144	8.91	1.97	6.5	5.1	560
I038407		2.86	17.95	0.12	1.3	0.034	2.53	18.8	10.7	0.84	153	5.20	2.27	7.0	5.7	570
I038408		1.75	18.95	0.12	1.2	0.034	3.83	24.3	11.1	0.30	29	0.94	1.42	5.2	1.1	250
I038409		2.17	19.05	0.15	1.1	0.036	4.09	28.1	8.1	0.27	34	0.71	1.40	4.6	1.9	310
I038410		2.32	16.90	0.16	1.0	0.042	3.90	25.9	10.1	0.30	72	0.63	1.30	4.2	3.9	380
I038411		2.93	18.05	0.16	1.1	0.052	3.34	28.3	8.6	0.46	116	0.77	1.47	4.2	4.9	500
I038412		2.43	19.90	0.19	1.0	0.050	3.33	28.6	10.4	0.37	106	0.74	1.33	4.1	8.4	500
I038413		2.44	18.25	0.18	1.1	0.061	3.46	34.4	12.0	0.58	188	0.60	0.41	4.1	4.7	410
I038414		2.38	18.25	0.15	1.1	0.053	3.20	21.9	9.5	0.62	239	0.48	0.74	5.3	4.5	530
I038415		2.87	16.40	0.15	1.0	0.054	3.46	18.2	6.5	0.46	177	0.56	0.79	3.8	4.4	480
I038416		2.96	18.35	0.18	1.1	0.054	3.57	24.7	9.6	0.74	273	0.80	0.64	4.3	4.8	540
I038417		3.76	19.75	0.20	1.0	0.115	3.77	36.0	7.3	0.72	208	0.74	0.64	3.8	3.8	510
I038418		3.33	18.35	0.17	1.0	0.064	3.65	26.0	8.1	0.67	177	1.60	0.57	3.7	4.5	500
I038419		2.71	18.10	0.15	1.1	0.090	3.42	20.6	10.2	0.70	263	1.06	0.51	4.2	4.5	530
I038420		2.72	18.40	0.15	1.1	0.058	3.35	21.3	16.7	0.73	179	1.16	0.30	4.0	3.9	550
I038421		2.87	19.10	0.16	1.1	0.049	3.40	22.0	26.0	0.67	220	0.97	0.13	4.0	4.2	550
I038422		2.91	18.20	0.18	1.1	0.039	3.65	19.7	19.2	0.50	157	2.00	0.49	4.4	4.2	520
I038423		2.72	16.80	0.16	1.0	0.029	3.26	15.2	13.1	0.54	141	1.71	1.24	3.7	3.6	480
I038424		2.87	17.85	0.16	1.0	0.025	3.19	15.7	13.1	0.62	160	1.14	1.15	3.9	4.1	510
I038425		4.48	17.15	0.17	0.9	0.057	3.16	16.3	14.2	0.64	141	1.01	0.41	3.1	3.8	480
I038426		3.92	18.20	0.16	1.0	0.056	3.35	20.5	11.9	0.78	223	0.55	0.05	2.9	3.7	510
I038427		3.78	19.80	0.18	1.1	0.052	3.31	21.3	15.4	0.89	268	0.76	0.05	3.3	4.3	550
I038428		3.65	18.90	0.17	1.0	0.041	3.01	24.3	22.4	0.76	169	1.12	0.36	3.2	4.6	520
I038429		2.86	17.55	0.15	1.0	0.025	2.83	18.1	9.1	0.62	142	0.97	1.20	3.6	4.0	500
I038430		3.17	17.25	0.16	1.0	0.036	2.87	14.4	6.5	0.57	169	1.60	0.99	3.4	4.1	490
I038431		3.86	16.80	0.17	1.0	0.032	3.18	18.3	7.9	0.68	207	2.52	0.21	3.1	3.9	480
I038432		5.23	17.35	0.19	0.9	0.041	3.16	21.1	8.7	0.63	134	1.90	0.18	3.3	3.7	450
I038433		4.25	18.00	0.19	1.0	0.023	3.44	20.1	17.8	0.72	149	1.38	0.42	3.4	4.1	500
I038434		4.08	18.05	0.17	1.0	0.033	3.69	14.7	10.4	0.63	133	1.83	0.63	3.6	4.1	480
I038435		4.77	16.95	0.14	1.1	0.067	3.92	14.8	8.7	0.62	202	1.96	0.37	3.5	5.0	520
I038436		3.95	15.90	0.13	1.3	0.031	3.33	19.9	9.0	0.66	133	0.73	0.88	3.4	4.9	520
I038437		2.74	16.10	0.13	1.4	0.030	3.28	16.7	8.2	0.54	107	1.53	1.20	3.6	4.4	520
I038438		4.58	17.65	0.16	1.4	0.049	3.48	17.7	14.5	0.48	108	1.06	0.71	3.6	4.3	530



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Sample Description	Method Analyte Units LOR	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
I038399		15.2	97.4	0.014	1.63	1.46	5.8	3	1.0	702	0.49	0.12	8.3	0.201	0.77	4.0
I038400		10.8	88.3	0.003	1.15	1.65	5.7	2	1.7	687	0.50	0.07	7.8	0.205	0.64	3.6
I038401		14.0	105.0	0.013	2.17	5.81	6.2	3	1.0	709	0.53	0.16	8.5	0.205	0.73	4.2
I038402		12.2	98.0	0.004	2.11	10.60	5.8	3	1.1	683	0.52	0.10	8.1	0.210	0.78	3.9
I038403		13.2	96.1	0.003	0.84	12.55	6.1	2	1.3	707	0.53	0.07	8.3	0.215	0.79	3.9
I038404		76.0	102.5	0.005	2.64	46.1	6.8	3	2.0	631	0.47	0.40	8.5	0.215	0.88	3.5
I038405		12.3	121.5	0.005	3.17	6.69	6.5	3	2.3	613	0.41	0.08	7.8	0.193	0.94	3.2
I038406		9.6	111.5	0.007	1.79	5.52	6.7	2	2.9	544	0.47	0.09	8.4	0.208	0.82	3.8
I038407		10.7	82.2	0.004	1.79	2.32	6.6	2	2.0	661	0.49	0.11	7.8	0.221	0.71	3.1
I038408		23.3	169.5	<0.002	0.63	3.14	4.7	2	2.2	298	0.43	0.62	8.3	0.163	1.61	1.9
I038409		21.3	162.0	<0.002	0.97	2.66	4.6	1	2.2	294	0.39	1.22	7.9	0.156	1.66	2.0
I038410		16.1	162.0	<0.002	1.75	2.05	4.6	1	1.9	305	0.36	0.43	8.0	0.142	1.64	2.7
I038411		19.7	159.0	<0.002	2.36	2.54	5.3	2	1.9	262	0.36	0.47	8.9	0.135	1.44	3.3
I038412		19.6	169.5	<0.002	1.92	3.19	6.6	2	2.1	212	0.35	0.22	9.1	0.133	1.63	4.3
I038413		18.9	186.0	<0.002	1.82	8.39	5.3	2	2.4	120.0	0.38	0.45	9.0	0.136	1.81	3.4
I038414		18.7	133.5	<0.002	2.21	7.16	4.9	2	2.9	128.0	0.43	0.30	7.6	0.166	1.36	2.3
I038415		17.9	147.5	<0.002	2.84	4.63	4.5	1	2.7	162.0	0.34	0.46	7.0	0.129	1.44	2.6
I038416		16.4	157.5	<0.002	2.78	6.64	5.1	2	2.8	155.0	0.37	0.44	7.7	0.139	1.50	3.4
I038417		21.6	158.0	<0.002	3.84	8.64	4.7	2	4.1	158.0	0.33	1.14	7.3	0.133	1.54	2.6
I038418		14.0	161.5	<0.002	3.38	7.01	4.6	2	2.9	157.5	0.32	0.57	7.3	0.128	1.49	3.1
I038419		242	154.5	<0.002	2.78	144.0	5.1	2	2.5	135.5	0.37	0.74	7.5	0.142	1.54	3.9
I038420		12.7	152.0	<0.002	2.67	12.80	5.1	2	2.0	89.9	0.33	0.38	8.0	0.147	1.55	3.2
I038421		14.8	153.0	<0.002	2.87	5.64	5.2	2	2.1	108.0	0.35	0.58	8.1	0.151	1.54	3.9
I038422		20.4	166.5	<0.002	3.04	7.38	4.8	2	2.0	165.0	0.37	0.43	7.6	0.151	1.74	3.5
I038423		12.6	141.5	<0.002	2.80	2.92	4.3	2	1.9	329	0.32	0.31	6.3	0.129	1.48	2.9
I038424		13.1	134.5	<0.002	3.02	3.77	4.5	2	2.3	262	0.32	0.34	6.7	0.132	1.36	3.1
I038425		13.8	155.5	<0.002	4.95	5.61	4.3	2	2.8	148.5	0.26	2.66	6.7	0.113	1.37	4.1
I038426		12.9	169.0	<0.002	4.11	7.93	4.9	2	3.4	55.4	0.26	0.97	7.9	0.109	1.45	4.3
I038427		13.1	157.0	<0.002	3.83	6.41	5.5	2	2.7	43.3	0.29	0.48	8.5	0.114	1.37	3.6
I038428		258	136.5	<0.002	3.82	71.1	5.2	2	2.5	83.1	0.27	0.39	8.4	0.116	1.28	3.2
I038429		10.9	118.0	<0.002	3.13	5.33	4.8	2	1.9	244	0.30	0.62	7.0	0.123	1.20	3.4
I038430		143.0	115.5	<0.002	3.53	40.5	4.8	2	2.1	172.0	0.29	0.49	6.4	0.117	1.25	4.4
I038431		76.9	146.5	<0.002	4.38	39.8	4.6	3	2.4	99.2	0.26	0.64	7.5	0.106	1.44	3.9
I038432		17.8	151.0	<0.002	5.94	7.23	4.8	3	3.5	83.4	0.27	0.56	6.8	0.114	1.39	2.8
I038433		21.4	147.5	<0.002	4.76	5.64	4.9	2	2.0	154.0	0.28	0.88	7.5	0.114	1.52	3.5
I038434		32.1	155.0	<0.002	4.71	7.32	4.9	2	2.7	239	0.29	1.75	6.5	0.118	1.47	2.9
I038435		27.5	135.0	<0.002	5.36	13.10	4.9	2	2.7	190.5	0.30	1.17	5.4	0.132	1.61	3.8
I038436		122.0	139.0	<0.002	4.28	10.65	4.3	2	2.2	235	0.28	0.66	6.5	0.128	1.48	3.3
I038437		11.7	120.0	<0.002	2.85	4.79	4.4	1	1.5	309	0.32	1.01	6.4	0.136	1.37	3.7
I038438		22.2	150.0	<0.002	5.02	4.74	5.2	2	2.5	195.5	0.29	0.80	6.6	0.137	1.55	3.5



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Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
I038399		46	3.5	10.0	22	40.3
I038400		47	2.9	9.7	17	41.0
I038401		46	3.7	10.4	25	43.4
I038402		48	2.2	9.6	22	41.4
I038403		49	2.0	9.9	25	40.0
I038404		54	3.1	10.3	33	39.9
I038405		53	7.3	9.1	23	40.1
I038406		52	4.5	9.7	18	38.5
I038407		54	5.2	9.5	19	39.4
I038408		42	7.3	4.3	11	32.5
I038409		43	5.7	5.1	19	30.7
I038410		40	5.9	7.5	26	27.5
I038411		40	6.2	10.7	41	30.7
I038412		42	7.1	16.2	69	29.0
I038413		42	8.9	12.3	160	28.7
I038414		42	6.7	10.2	89	29.6
I038415		38	7.1	8.7	60	26.6
I038416		42	7.1	12.2	81	29.6
I038417		42	7.8	10.2	98	27.0
I038418		39	7.3	8.5	46	27.1
I038419		43	6.8	9.3	813	29.3
I038420		44	6.4	7.0	59	30.0
I038421		47	6.2	8.3	350	30.9
I038422		42	7.1	8.0	46	29.9
I038423		38	7.4	7.2	24	26.9
I038424		39	7.4	7.3	32	28.1
I038425		38	7.8	7.4	95	26.2
I038426		41	8.5	8.5	101	27.1
I038427		42	8.2	9.6	86	30.4
I038428		42	8.0	8.4	98	28.5
I038429		39	8.7	8.2	22	28.5
I038430		40	10.1	8.0	60	27.3
I038431		38	9.4	7.9	72	26.2
I038432		40	10.5	7.5	25	26.0
I038433		39	10.3	8.1	27	28.9
I038434		41	12.8	7.3	59	28.2
I038435		48	11.8	6.8	168	26.3
I038436		40	8.1	7.5	120	30.2
I038437		42	6.8	6.9	27	35.9
I038438		45	10.6	7.5	28	37.4



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP22 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
I038439		4.46	0.195	0.82	6.53	95.0	330	1.63	6.54	2.69	0.76	54.0	6.2	12	5.93	34.2
I038440		2.37	0.148	1.27	7.01	85.6	150	1.38	5.32	2.05	1.80	58.9	5.1	12	3.96	46.3
I038441		2.12	0.147	1.17	6.84	88.3	130	1.56	5.51	1.98	1.38	52.6	5.3	13	3.91	39.1
I038442		0.06	1.140	0.64	2.32	255	130	1.08	7.62	17.30	2.05	32.4	3.9	49	6.39	74.2
I038443		1.12	0.002	0.03	0.09	<5	20	<0.05	0.10	20.5	0.05	1.26	0.5	4	0.14	2.2
I038444		3.68	0.247	1.46	7.52	70.6	260	1.39	5.77	2.39	1.83	50.7	6.3	9	6.72	41.6
I038445		6.26	0.202	0.50	7.32	87.3	540	1.30	3.94	3.22	0.40	49.8	7.4	6	5.49	14.0
I038446		5.03	1.640	0.84	6.65	80.6	160	1.39	4.96	2.33	1.67	48.4	11.8	14	3.79	13.6
I038447		4.44	0.342	0.51	6.46	56.1	580	1.61	2.88	3.07	0.43	46.4	6.7	19	4.82	10.8
I038448		3.83	0.257	0.52	6.62	54.1	540	1.65	6.00	1.98	0.18	36.9	5.2	13	6.24	27.8
I038449		3.38	0.312	1.66	7.09	63.4	770	1.70	7.88	2.06	0.30	34.4	5.3	16	6.39	77.4
I038450		4.78	0.235	0.86	6.46	43.3	620	1.42	5.07	1.84	1.02	36.0	4.7	19	5.40	10.2
I038451		4.34	0.164	0.68	6.66	31.9	640	1.47	3.69	2.29	0.18	33.8	5.1	13	9.68	18.2
I038452		4.52	0.234	5.46	6.59	50.9	540	1.49	3.99	1.98	4.10	35.4	4.6	12	8.26	86.2
I038453		4.51	0.146	0.50	6.97	43.0	780	1.51	4.28	2.11	0.16	37.1	4.8	12	6.09	27.2
I038454		4.57	0.231	0.92	6.61	49.5	850	1.49	2.91	2.42	0.64	34.8	4.3	14	4.15	81.9
I038455		3.44	0.143	0.97	6.40	49.5	110	1.58	5.50	2.67	1.24	32.2	5.5	13	4.47	24.7
I038456		4.85	0.112	0.66	7.19	66.1	650	1.68	4.27	1.68	0.37	45.3	5.3	20	12.80	31.4
I038457		4.31	0.284	0.87	6.65	97.8	410	1.31	4.51	1.88	1.06	42.3	5.1	15	6.42	14.3
I038458		3.38	0.419	1.17	6.82	51.4	930	1.59	11.35	2.30	0.28	36.9	4.5	22	8.72	104.0
I038459		4.63	1.975	21.3	6.87	4410	430	1.56	11.55	1.97	31.2	44.2	4.9	16	10.65	191.5
I038460		3.63	0.506	1.72	6.13	299	380	1.31	8.00	2.91	0.48	33.5	5.6	22	9.01	128.0
I038461		4.39	0.150	1.29	6.82	71.1	1120	1.39	5.29	1.90	3.47	38.9	5.8	15	6.57	49.1
I038462		4.11	0.136	1.07	6.44	46.0	430	1.36	6.54	1.86	1.56	38.6	5.0	13	5.39	23.4
I038463		4.28	0.273	3.10	6.41	151.5	610	1.48	9.04	2.24	12.00	34.8	5.4	12	8.00	59.9
I038464		3.56	0.288	1.71	6.63	40.7	750	1.36	13.70	2.18	0.39	45.0	7.5	16	5.31	83.6
I038465		5.18	0.359	16.50	6.92	1035	590	1.51	7.05	1.87	1.18	40.4	5.2	12	5.28	68.1
I038466		2.38	0.088	2.23	6.78	401	760	1.36	3.55	1.92	1.11	34.2	4.5	20	5.12	29.0
I038467		4.56	0.168	10.50	6.56	63.1	380	1.43	5.51	2.17	2.86	38.2	6.3	17	5.58	42.8
I038468		4.83	0.234	17.95	6.62	399	400	1.55	4.02	1.96	14.15	34.0	5.3	14	4.28	72.5
I038469		4.57	0.365	3.79	6.80	486	490	1.39	5.80	1.85	3.45	26.6	4.5	15	4.54	72.2
I038470		3.51	0.680	6.98	6.60	1580	450	1.44	11.65	1.78	3.36	34.5	4.8	22	6.70	81.4
I038471		4.76	0.690	3.02	7.40	254	320	1.65	9.61	1.82	4.54	30.6	6.7	12	7.06	66.2
I038472		3.70	1.080	20.1	6.47	2760	480	1.63	9.99	1.98	12.40	29.5	5.4	11	5.61	94.2
I038473		3.95	0.734	2.18	6.50	233	510	1.65	12.85	1.85	0.42	28.7	5.2	13	5.59	388
I038474		4.14	0.382	1.89	6.93	188.5	740	1.73	9.08	2.27	1.03	39.3	7.5	13	6.84	82.6
I038475		4.40	0.236	2.01	5.53	267	430	1.57	4.57	1.77	3.46	28.8	5.3	13	6.29	34.3
I038476		1.92	0.406	1.39	7.13	177.0	430	1.85	10.10	1.79	0.37	33.3	5.5	12	10.40	378
I038477		1.99	0.653	19.65	6.82	1530	360	1.75	11.25	2.13	0.83	27.5	5.8	13	10.50	460
I038478		0.06	1.130	1.01	2.86	312	160	1.35	9.93	21.6	2.81	40.1	5.5	52	8.54	95.7



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Sample Description	Method Analyte Units LOR	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm
I038439		3.84	16.95	0.17	1.3	0.061	3.22	27.4	19.7	0.76	179	0.90	0.20	3.5	4.5	490
I038440		4.32	18.10	0.18	1.2	0.137	3.60	27.9	8.9	0.57	124	1.68	0.56	3.8	4.5	530
I038441		4.60	17.30	0.14	1.3	0.098	3.59	23.4	8.7	0.59	125	1.86	0.58	3.5	4.9	530
I038442		2.61	8.72	0.15	1.2	0.687	0.73	21.6	12.6	3.38	1660	68.5	0.01	4.6	75.6	1090
I038443		0.47	0.23	0.11	<0.1	<0.005	0.04	0.6	1.1	12.15	197	0.18	0.01	0.2	2.3	170
I038444		3.62	21.3	0.22	1.4	0.173	3.84	24.8	10.1	0.62	156	1.87	0.87	3.9	4.9	540
I038445		3.33	20.7	0.21	1.4	0.033	3.51	25.1	10.7	0.54	147	0.74	1.26	3.9	4.5	550
I038446		5.37	14.70	0.18	1.2	0.061	3.39	24.3	10.4	0.74	129	8.12	0.54	3.1	5.5	510
I038447		3.65	16.50	0.16	1.4	0.034	3.30	25.0	10.2	0.65	154	1.03	0.97	3.4	8.0	540
I038448		2.90	16.60	0.12	1.4	0.020	2.81	19.3	24.4	0.61	165	0.52	1.84	3.6	4.5	550
I038449		2.90	17.30	0.16	1.5	0.019	3.35	15.6	21.0	0.63	174	0.72	2.02	4.0	5.2	580
I038450		2.90	15.25	0.14	1.3	0.013	3.03	17.1	22.7	0.58	143	0.52	1.71	3.5	6.2	520
I038451		3.08	14.20	0.13	1.4	0.017	3.13	15.4	11.2	0.56	169	0.56	1.14	3.6	5.5	520
I038452		3.35	14.40	0.14	1.2	0.029	3.38	15.7	11.9	0.58	184	1.29	0.94	3.2	4.6	510
I038453		2.93	15.95	0.11	1.3	0.029	3.44	17.4	21.9	0.57	151	0.51	1.55	3.5	3.9	550
I038454		2.75	16.60	0.13	1.3	0.030	3.03	16.2	11.0	0.70	165	0.69	1.41	3.6	4.8	530
I038455		4.09	15.90	0.13	1.2	0.024	3.05	14.0	26.0	0.61	153	3.20	1.15	3.4	4.5	500
I038456		3.05	17.30	0.16	1.2	0.025	3.20	23.1	104.5	0.71	155	1.25	0.37	3.4	7.0	530
I038457		3.22	16.70	0.16	1.3	0.041	3.68	20.7	43.0	0.62	200	0.39	1.05	4.0	5.3	530
I038458		2.71	17.40	0.15	1.3	0.036	3.47	17.6	28.8	0.58	219	0.51	1.47	4.4	6.6	530
I038459		3.12	17.95	0.15	1.2	0.080	3.62	21.0	42.5	0.65	255	0.55	0.84	4.4	5.7	530
I038460		2.85	14.80	0.12	1.1	0.025	3.29	14.6	22.1	0.57	241	2.28	1.11	3.9	8.1	500
I038461		2.46	15.65	0.13	1.2	0.022	3.15	18.3	34.2	0.64	188	0.97	1.70	4.0	4.5	540
I038462		3.14	15.70	0.15	1.2	0.027	3.08	18.6	20.3	0.63	181	1.73	1.55	3.5	4.3	520
I038463		2.67	16.00	0.14	1.3	0.038	3.16	17.4	30.2	0.62	185	1.18	1.45	3.5	4.2	520
I038464		3.02	15.45	0.17	1.1	0.031	3.52	22.7	16.1	0.62	180	19.10	1.31	2.9	5.5	490
I038465		3.57	16.90	0.15	1.3	0.029	3.63	21.4	11.3	0.65	161	1.20	0.98	3.2	4.0	530
I038466		2.85	15.75	0.18	1.2	0.024	3.37	16.5	12.3	0.56	161	1.44	1.34	2.9	11.0	520
I038467		3.98	16.15	0.16	1.3	0.029	3.61	17.7	10.5	0.62	159	1.06	0.89	3.4	5.7	510
I038468		3.89	17.05	0.16	1.3	0.048	3.63	15.7	6.6	0.60	136	2.65	0.19	3.6	4.6	520
I038469		4.08	16.25	0.15	1.2	0.047	3.59	12.6	5.9	0.64	126	1.91	0.32	3.3	4.8	500
I038470		3.69	16.10	0.13	1.3	0.049	3.75	16.8	6.5	0.62	137	1.06	0.44	2.8	9.0	510
I038471		4.69	20.9	0.07	1.5	0.053	3.82	13.4	12.1	0.88	139	3.90	0.78	3.9	4.6	580
I038472		3.55	18.75	0.13	1.3	0.050	3.60	13.2	16.8	0.65	162	4.60	1.16	3.8	4.4	520
I038473		3.54	19.65	0.10	1.6	0.091	3.61	11.9	18.0	0.69	137	2.95	1.47	3.9	4.6	580
I038474		3.24	21.1	0.10	1.4	0.035	3.20	17.9	42.6	0.60	152	18.30	1.65	4.0	5.1	530
I038475		2.69	19.60	0.14	1.5	0.025	3.44	12.3	29.7	0.65	144	4.06	1.68	4.7	4.5	560
I038476		3.66	21.6	0.10	1.5	0.051	4.31	14.6	34.9	0.78	257	1.71	0.81	4.3	4.9	610
I038477		4.04	21.8	0.12	1.6	0.051	4.48	11.4	30.4	0.90	315	2.04	0.90	4.5	5.2	610
I038478		3.07	12.35	0.11	1.8	0.882	0.87	28.2	15.9	4.21	2040	89.3	0.01	6.1	89.8	1330



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Sample Description	Method Analyte Units LOR	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
I038439		17.8	139.0	<0.002	4.07	9.99	4.6	2	4.6	108.0	0.28	0.45	6.4	0.127	1.49	2.9
I038440		23.9	166.5	<0.002	4.77	15.00	5.6	2	5.4	150.5	0.28	0.55	6.1	0.133	1.50	2.3
I038441		25.2	155.0	<0.002	5.16	13.80	5.0	2	5.2	150.0	0.26	0.47	6.0	0.127	1.46	2.2
I038442		17.9	57.5	0.059	0.93	11.10	3.9	4	5.0	212	0.31	0.34	3.9	0.124	1.64	15.4
I038443		1.5	1.6	<0.002	0.02	0.06	0.2	<1	<0.2	44.2	<0.05	<0.05	<0.2	<0.005	<0.02	0.6
I038444		23.9	181.0	<0.002	3.95	22.6	5.9	2	6.2	250	0.28	0.66	7.5	0.136	1.62	2.7
I038445		23.1	163.5	<0.002	3.63	7.36	6.1	2	1.9	336	0.27	0.80	7.6	0.131	1.38	3.2
I038446		23.8	149.5	<0.002	5.97	4.87	4.2	2	6.7	133.5	0.24	0.30	6.4	0.126	1.32	3.1
I038447		14.1	138.0	<0.002	3.93	4.77	4.8	2	2.6	243	0.26	0.34	5.0	0.131	1.11	3.8
I038448		21.4	99.4	<0.002	2.66	3.82	4.4	1	1.1	501	0.30	0.35	5.8	0.148	1.25	3.4
I038449		43.1	111.5	<0.002	2.64	9.26	4.7	1	1.2	575	0.33	0.66	6.4	0.166	1.47	4.2
I038450		33.6	120.0	<0.002	2.81	6.14	4.5	1	1.2	399	0.29	0.43	6.0	0.139	1.40	2.8
I038451		14.6	149.5	<0.002	3.18	12.75	4.6	2	1.3	250	0.30	0.18	6.0	0.136	1.71	2.6
I038452		89.6	158.0	<0.002	3.40	64.2	4.5	1	1.8	227	0.26	0.35	5.7	0.131	1.63	2.7
I038453		24.4	131.5	<0.002	2.80	12.20	4.3	1	1.3	371	0.29	0.19	5.7	0.141	1.64	2.7
I038454		20.5	115.5	<0.002	2.70	29.8	4.5	1	1.2	262	0.29	0.20	5.4	0.147	1.43	3.3
I038455		29.1	117.5	<0.002	4.44	12.15	4.2	2	2.9	291	0.26	0.28	5.4	0.135	1.34	3.7
I038456		22.8	160.0	<0.002	2.95	15.10	4.9	2	1.1	196.0	0.27	0.27	7.6	0.138	1.69	4.5
I038457		45.1	154.0	<0.002	3.09	7.43	4.6	1	1.4	317	0.31	0.41	5.8	0.147	1.81	2.3
I038458		22.3	142.0	<0.002	2.47	14.55	4.9	1	1.4	443	0.35	0.39	5.9	0.166	1.75	4.8
I038459		1695	178.0	<0.002	2.89	798	4.9	1	2.7	302	0.33	0.73	5.6	0.164	1.85	3.6
I038460		43.1	125.5	<0.002	2.81	24.7	3.9	1	1.7	355	0.31	0.48	5.0	0.152	1.70	3.0
I038461		86.5	124.0	<0.002	2.21	17.80	4.6	1	1.2	400	0.31	0.23	6.4	0.155	1.39	3.6
I038462		47.2	116.5	<0.002	3.04	12.60	4.4	1	1.5	417	0.28	0.39	5.7	0.138	1.48	2.8
I038463		309	122.0	<0.002	2.63	50.1	4.4	1	1.4	362	0.28	0.50	5.8	0.139	1.59	4.5
I038464		26.7	145.0	0.004	2.72	21.1	4.3	3	1.4	366	0.23	0.20	5.9	0.123	1.66	3.6
I038465		177.5	172.0	<0.002	3.53	114.0	4.7	1	4.0	266	0.26	0.28	6.9	0.138	1.72	3.8
I038466		145.0	147.0	<0.002	2.73	64.1	4.4	2	1.3	348	0.24	0.21	6.0	0.131	1.60	3.0
I038467		536	161.0	<0.002	4.33	268	4.6	4	2.5	240	0.26	0.34	6.0	0.130	1.61	2.6
I038468		368	174.0	0.004	4.20	190.0	4.8	2	2.9	94.2	0.28	0.30	6.7	0.128	1.61	3.6
I038469		240	167.5	<0.002	4.24	119.0	4.6	2	2.3	124.5	0.26	0.41	6.8	0.127	1.60	3.8
I038470		371	172.0	0.002	4.02	191.0	4.6	2	2.1	280	0.22	0.57	6.2	0.112	1.76	2.6
I038471		96.0	185.5	0.003	5.00	52.3	5.9	4	3.3	186.5	0.33	0.85	7.4	0.144	1.85	3.5
I038472		518	163.5	0.008	3.65	281	5.0	2	3.8	320	0.31	0.36	6.1	0.142	1.61	3.2
I038473		29.6	139.0	0.003	3.63	20.1	5.1	2	2.6	398	0.33	0.73	5.5	0.152	1.61	2.8
I038474		72.0	125.0	0.019	3.20	27.0	5.6	2	1.4	448	0.31	0.78	6.2	0.149	1.42	3.6
I038475		112.5	116.5	0.008	2.82	37.7	4.5	2	1.7	445	0.39	0.38	5.2	0.173	1.51	3.0
I038476		21.2	172.5	<0.002	3.67	29.9	5.7	1	1.7	353	0.36	0.61	6.7	0.168	2.02	3.4
I038477		126.0	159.5	0.002	4.04	116.5	5.6	3	1.8	370	0.35	1.07	5.3	0.172	2.12	3.1
I038478		22.9	71.7	0.079	1.13	14.75	5.5	4	7.1	262	0.41	0.45	5.3	0.150	1.97	20.0





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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
I038439		40	9.5	8.2	64	32.4
I038440		45	5.9	8.6	136	31.7
I038441		44	5.8	8.1	106	31.1
I038442		317	27.9	21.4	441	42.0
I038443		2	0.1	0.8	14	0.5
I038444		46	6.2	9.4	138	40.3
I038445		44	6.5	9.7	43	40.1
I038446		40	10.9	8.1	129	29.4
I038447		43	6.4	8.8	40	37.9
I038448		44	3.7	8.0	36	38.3
I038449		49	2.5	8.1	44	35.6
I038450		43	2.8	7.5	75	31.0
I038451		41	5.6	7.6	49	33.3
I038452		42	6.7	7.0	263	31.3
I038453		44	5.0	6.9	35	32.6
I038454		44	4.1	6.8	57	30.7
I038455		42	5.1	7.3	89	28.7
I038456		42	3.8	8.3	46	31.1
I038457		42	4.2	8.1	80	30.4
I038458		46	4.3	7.8	45	32.5
I038459		44	3.5	7.7	1690	31.6
I038460		42	5.3	6.8	52	26.9
I038461		45	4.7	7.2	219	29.7
I038462		43	3.9	7.0	103	28.5
I038463		42	4.3	6.7	670	30.6
I038464		41	6.2	7.8	48	30.0
I038465		44	5.9	7.8	71	32.0
I038466		42	4.5	6.6	91	29.8
I038467		42	6.1	7.8	188	31.2
I038468		41	8.7	7.5	777	30.8
I038469		39	8.3	6.7	213	29.3
I038470		39	6.0	6.9	202	29.9
I038471		49	8.9	9.3	251	33.7
I038472		44	7.3	7.7	671	31.4
I038473		48	7.5	7.7	29	34.4
I038474		47	6.7	8.9	65	32.8
I038475		49	6.1	7.3	192	33.8
I038476		50	7.4	8.3	30	36.1
I038477		52	7.9	7.9	43	36.8
I038478		383	39.5	32.2	552	56.2



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP22 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
I038479		1.24	0.001	0.06	0.24	<5	40	0.17	0.10	24.7	0.08	2.04	1.0	5	0.47	3.2
I038480		4.16	0.284	0.82	7.18	98.3	910	1.57	6.56	2.07	0.49	35.6	5.4	13	7.03	58.0
I038481		4.02	0.493	0.71	7.38	145.5	830	1.80	7.41	2.90	0.40	43.7	6.5	13	7.77	49.5
I038482		3.99	0.504	4.66	6.77	75.3	500	1.59	6.71	2.20	5.90	34.2	6.1	12	5.61	221
I038483		4.92	0.602	1.39	6.69	1725	400	1.48	7.51	2.34	2.61	34.1	6.4	13	5.98	27.2
I038484		4.28	0.433	1.56	6.97	103.5	950	1.70	6.02	2.34	1.30	41.3	5.1	13	6.83	183.0
I038485		4.13	0.337	1.79	6.86	84.1	700	1.77	7.28	2.20	0.42	32.6	8.3	13	6.09	206
I038486		4.58	0.646	3.12	6.91	173.0	830	1.69	24.7	2.40	0.71	42.4	8.1	15	5.81	318
I038487		4.25	0.390	1.17	7.28	170.0	790	1.75	7.46	2.48	0.54	48.9	7.0	12	6.71	126.0
I038488		3.56	0.632	4.95	7.13	623	1030	1.49	21.5	2.50	1.41	51.6	4.0	12	5.96	361
I038489		5.16	0.654	5.52	7.14	292	240	1.60	26.3	2.01	2.08	43.3	8.4	12	5.06	452
I038490		4.54	0.432	1.58	6.94	279	680	1.68	14.75	1.88	0.51	41.4	9.3	12	5.89	231
I038491		4.06	0.707	5.68	6.80	1635	660	1.51	6.79	2.03	0.82	38.0	8.0	12	6.82	398
I038492		3.91	0.296	2.56	6.98	168.5	640	1.63	10.55	3.27	0.57	34.1	6.9	12	7.21	380
I038493		4.06	0.834	2.69	7.16	87.2	500	1.58	33.0	3.61	0.62	39.9	8.2	11	4.47	562
I038494		2.92	0.631	5.34	7.54	1225	560	1.61	5.89	1.98	16.35	40.5	6.5	10	5.01	201
I038495		4.10	1.320	8.48	7.32	439	380	1.38	6.71	1.53	10.80	52.1	7.9	12	4.37	715
I038496		4.12	0.897	2.95	7.70	260	900	1.74	27.9	1.98	3.70	44.4	6.0	13	5.34	209
I038497		3.69	0.389	1.59	6.92	70.1	1150	1.48	37.5	1.68	0.63	36.7	7.4	14	6.09	139.5
I038498		4.23	0.271	1.22	7.47	59.6	1060	1.86	8.50	2.17	0.72	36.4	7.0	15	4.61	142.5
I038499		4.13	0.334	2.09	6.90	242	550	1.68	5.35	1.85	1.73	39.1	6.9	11	4.01	71.9
I038500		3.55	0.398	3.05	6.86	1090	1010	1.82	4.14	2.34	1.87	38.0	7.5	15	5.26	35.4
I038501		4.06	0.507	2.15	6.95	152.0	1270	1.71	19.65	1.71	0.42	44.2	8.0	14	5.22	123.0
I038502		3.46	0.344	1.04	6.90	26.0	1440	1.72	6.17	2.08	0.30	36.0	10.0	16	5.48	112.5
I038503		3.91	0.441	0.74	7.08	37.0	1350	1.65	3.77	1.65	0.32	40.6	7.4	15	5.61	131.0
I038504		4.16	0.281	1.40	6.95	194.5	1200	1.79	4.60	1.71	0.44	42.7	6.5	15	6.08	80.8
I038505		4.12	0.704	2.16	7.12	1480	1220	1.46	5.21	1.51	0.71	42.6	6.8	18	4.85	412
I038506		3.04	0.136	1.18	7.10	104.5	1690	1.47	2.35	1.68	0.33	42.0	4.6	16	4.18	342



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Sample Description	Method Analyte Units LOR	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
I038479		0.56	0.46	0.07	<0.1	<0.005	0.10	0.9	2.1	14.45	257	0.37	0.02	0.2	4.2	220
I038480		3.02	20.2	0.14	1.5	0.022	3.76	15.8	18.9	0.74	164	1.65	1.81	4.8	4.6	570
I038481		3.48	21.9	0.14	1.5	0.026	3.66	20.0	13.6	0.82	186	2.63	1.56	4.7	5.2	600
I038482		3.20	21.1	0.13	1.5	0.077	3.69	15.4	12.9	0.79	145	1.64	1.00	3.9	5.2	590
I038483		3.79	20.0	0.11	1.4	0.020	3.49	15.2	21.3	0.78	276	2.93	0.47	3.3	5.2	520
I038484		2.62	20.8	0.13	1.6	0.028	3.87	18.1	23.2	0.60	206	3.58	1.19	4.6	5.2	590
I038485		3.24	21.2	0.11	1.6	0.034	3.38	14.3	28.9	0.78	170	3.62	1.12	4.1	5.6	590
I038486		3.31	22.3	0.14	1.6	0.057	3.48	18.6	23.6	0.78	217	5.49	1.60	4.7	6.1	600
I038487		3.38	22.2	0.14	1.5	0.041	3.95	24.1	24.0	0.83	215	11.70	1.02	4.4	5.3	600
I038488		2.96	20.8	0.15	1.5	0.091	3.83	27.1	22.7	0.68	273	4.67	1.14	4.6	4.8	580
I038489		4.00	22.9	0.16	1.7	0.060	3.77	20.7	26.5	0.83	204	12.90	1.53	4.3	5.7	600
I038490		2.94	22.4	0.14	1.5	0.036	4.09	18.3	23.4	0.73	165	18.55	1.57	4.2	4.4	580
I038491		3.02	21.3	0.11	1.5	0.043	4.67	16.4	14.8	0.76	194	13.50	1.07	4.3	4.5	560
I038492		3.29	21.3	0.14	1.5	0.060	4.97	14.3	19.8	0.88	241	16.65	1.01	4.3	4.7	550
I038493		3.68	22.3	0.10	1.4	0.064	4.05	18.5	20.4	1.00	208	5.33	1.33	3.9	4.7	570
I038494		3.05	21.7	0.11	1.5	0.052	4.43	18.3	20.5	0.83	152	6.81	1.31	3.8	4.4	590
I038495		3.45	21.9	0.13	1.5	0.074	4.44	24.8	12.5	0.92	133	8.87	0.92	3.7	4.9	570
I038496		2.90	24.0	0.14	1.7	0.032	4.54	20.0	16.1	0.85	141	2.47	1.83	4.9	5.2	630
I038497		2.69	20.2	0.15	1.5	0.020	4.05	16.5	17.5	0.83	124	8.77	1.94	4.9	4.9	570
I038498		2.82	22.5	0.14	1.8	0.026	3.94	16.3	15.5	0.84	142	10.70	2.00	5.4	4.8	630
I038499		3.17	19.05	0.13	1.4	0.026	3.97	17.6	11.2	0.73	125	6.77	1.31	3.1	4.2	540
I038500		2.65	21.1	0.15	1.5	0.020	4.11	17.2	15.7	0.82	154	6.21	1.63	4.3	4.4	570
I038501		2.63	21.2	0.17	1.5	0.030	4.07	20.4	15.5	0.82	155	3.20	1.62	4.8	4.8	570
I038502		2.40	21.1	0.10	1.5	0.023	4.23	17.3	14.9	0.83	125	5.27	1.99	5.4	4.6	600
I038503		2.78	20.2	0.15	1.6	0.034	4.07	18.9	25.6	0.77	117	15.90	2.25	6.2	4.7	580
I038504		2.73	20.2	0.14	1.6	0.036	4.24	18.3	13.3	0.76	139	13.10	1.52	5.6	4.5	590
I038505		2.74	21.2	0.14	1.4	0.063	4.50	23.1	9.8	0.72	118	37.7	1.22	5.6	4.5	550
I038506		2.08	20.2	0.14	1.5	0.060	5.00	20.1	6.7	0.84	153	24.1	1.20	5.6	3.9	570



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Sample Description	Method Analyte Units LOR	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
I038479		1.8	3.3	<0.002	0.02	0.37	0.4	<1	<0.2	48.8	<0.05	<0.05	<0.2	0.008	0.05	0.6
I038480		27.8	151.5	0.002	2.83	9.64	5.6	2	1.6	511	0.37	0.39	6.9	0.172	1.66	4.1
I038481		24.0	164.0	<0.002	3.52	9.66	6.0	2	2.1	451	0.36	0.85	7.4	0.168	1.72	5.5
I038482		46.5	148.5	<0.002	3.44	37.3	5.4	2	4.3	303	0.30	0.74	5.9	0.142	1.53	3.3
I038483		251	146.5	<0.002	4.09	93.9	5.4	2	4.0	190.0	0.26	1.38	6.7	0.121	1.60	3.0
I038484		35.2	146.0	<0.002	2.60	17.15	5.6	1	2.6	373	0.36	0.69	6.1	0.165	1.66	3.9
I038485		23.4	131.5	0.003	3.17	11.85	6.0	2	2.0	451	0.33	0.41	5.9	0.156	1.43	3.7
I038486		33.3	139.0	0.002	3.18	19.85	5.7	1	2.4	430	0.37	0.57	5.8	0.172	1.51	4.3
I038487		21.5	182.5	0.006	3.43	12.95	6.2	2	3.8	314	0.34	0.59	7.2	0.160	1.76	4.0
I038488		40.7	177.0	0.004	2.93	49.2	6.0	2	4.0	352	0.37	0.70	7.3	0.163	1.72	3.3
I038489		154.0	157.0	0.008	4.04	74.6	5.9	3	3.5	409	0.37	1.36	6.6	0.156	1.67	4.1
I038490		21.2	169.0	0.007	2.88	13.75	5.5	2	4.1	441	0.32	0.83	6.3	0.156	1.79	3.9
I038491		33.6	147.0	0.006	2.89	42.0	5.2	3	2.8	389	0.33	0.55	5.7	0.156	1.96	2.6
I038492		20.8	180.0	0.003	3.12	25.7	5.5	3	2.4	436	0.34	0.55	5.9	0.160	1.87	4.1
I038493		23.8	150.0	0.005	3.64	17.10	5.4	2	3.5	463	0.32	1.50	6.1	0.147	1.67	4.2
I038494		347	179.5	0.006	3.05	61.5	5.8	2	7.4	403	0.33	0.63	7.5	0.150	1.68	4.4
I038495		429	144.0	0.003	3.56	128.0	5.7	3	3.7	352	0.30	0.76	7.0	0.135	1.89	3.4
I038496		135.0	162.0	0.002	2.91	71.9	6.1	3	2.2	512	0.38	0.91	7.0	0.170	1.84	3.2
I038497		27.4	147.5	0.004	2.57	13.45	5.5	2	1.5	542	0.39	0.49	6.5	0.178	1.55	3.7
I038498		26.8	117.5	0.006	2.78	12.10	5.8	2	2.6	564	0.45	0.41	6.5	0.196	1.67	4.5
I038499		153.0	157.5	0.003	3.33	8.44	5.1	2	2.7	376	0.24	0.48	6.2	0.115	1.46	4.0
I038500		157.5	127.5	0.004	2.58	42.8	5.5	1	2.3	480	0.37	0.33	5.5	0.156	1.53	3.6
I038501		33.3	155.5	0.003	2.54	22.3	5.7	1	2.5	478	0.38	0.35	6.8	0.178	1.44	3.9
I038502		19.5	99.6	0.002	2.08	9.69	5.3	1	2.1	580	0.45	0.50	5.7	0.201	1.49	3.6
I038503		20.1	150.5	0.006	2.48	6.00	5.7	1	1.7	571	0.49	0.33	6.9	0.211	1.38	3.8
I038504		30.6	125.0	0.007	2.54	15.55	5.6	2	2.0	469	0.44	0.16	6.6	0.197	1.79	3.9
I038505		22.0	133.5	0.017	2.49	9.69	5.6	2	2.3	488	0.42	0.28	6.7	0.185	1.79	7.4
I038506		17.8	144.5	0.010	1.94	11.20	5.6	1	2.3	415	0.47	0.18	6.9	0.197	1.96	3.6



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Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
I038479		4	0.1	1.4	11	0.5
I038480		48	5.9	8.1	38	34.0
I038481		51	7.5	8.7	32	36.6
I038482		47	6.2	7.3	305	37.7
I038483		44	10.6	6.6	146	33.7
I038484		49	6.5	7.4	88	38.1
I038485		51	6.2	7.2	37	37.1
I038486		50	4.9	8.1	51	38.7
I038487		50	7.2	8.5	41	37.6
I038488		48	6.0	9.2	82	37.0
I038489		54	7.1	7.6	123	43.0
I038490		48	7.4	7.7	40	37.6
I038491		47	11.4	7.2	53	35.2
I038492		49	9.7	8.2	42	36.0
I038493		48	8.4	8.2	46	34.4
I038494		47	11.6	7.6	830	36.1
I038495		47	13.7	7.5	540	36.3
I038496		53	8.8	8.1	189	41.0
I038497		50	7.3	7.6	44	35.1
I038498		53	8.3	8.3	49	40.6
I038499		42	8.1	6.5	87	32.7
I038500		49	9.9	7.1	103	37.1
I038501		49	10.7	7.8	31	35.7
I038502		53	11.5	8.0	29	35.8
I038503		49	6.7	10.2	26	36.3
I038504		50	7.4	9.2	34	35.9
I038505		47	7.6	6.8	49	33.8
I038506		50	11.3	9.4	28	34.6



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Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.