Quality Analysis ... *Innovative Technologies*

Date Submitted: 10-Sep-18
Invoice No.: A18-12763-TD Final
Invoice Date: 17-Oct-18
Your Reference: BMK-2017

MacDonald Mines Exploration Ltd.
145 Wellington Street West
Suite 1001
Toronto ON M5J 1H8
Canada

ATTN: Vice President of Exploration Quentin Yarie (INV+CERT)

CERTIFICATE OF ANALYSIS

99 Rock samples were submitted for analysis.

The following analytical package(s) were requested: Code ME-MS61-RedPine Total Digestion ICP & ICP/MS

REPORT **A18-12763-TD Final**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

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Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5
Method Code	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP
712101	0.04	7.75	< 0.2	70	0.53	0.02	7.27	< 0.02	16.9	49.9	78	0.23	214	9.48	18.5	0.09	2.0	0.061	0.33	5.7	10.3	4.17	1340
712102	0.02	7.64	< 0.2	70	0.59	0.01	6.62	< 0.02	16.9	46.5	87	0.26	204	8.99	17.4	0.20	2.3	0.064	0.28	5.9	17.7	4.50	1110
712103	0.05	7.76	< 0.2	120	1.13	0.02	5.20	< 0.02	22.6	48.2	98	0.34	248	8.57	19.4	0.35	2.6	0.053	1.13	8.2	71.1	4.75	831
712104	< 0.01	7.04	0.3	170	3.51	0.12	0.32	< 0.02	63.3	18.7	148	1.63	43.7	4.23	16.2	< 0.05	2.4	0.028	1.66	27.2	60.2	2.64	184
712105	0.04	7.26	0.7	260	3.01	0.09	0.18	< 0.02	67.4	11.3	113	2.12	9.2	2.76	14.3	0.06	3.7	0.028	1.45	30.3	18.8	1.55	68
712106	0.01	7.21	7.2	270	3.74	0.33	0.23	< 0.02	61.0	14.8	178	2.41	37.1	3.83	16.8	0.14	2.7	0.019	1.64	27.3	26.1	2.22	123
712107	0.03	6.61	3.4	150	3.97	0.12	0.22	< 0.02	59.3	13.2	170	1.50	37.8	2.77	15.3	< 0.05	3.5	0.016	1.33	25.1	21.2	1.68	152
712108	0.12	8.00	13.6	50	3.06	0.07	0.19	< 0.02	84.4	24.9	159	1.17	23.3	1.73	22.6	0.12	4.3	< 0.005	0.78	35.7	14.0	1.42	36
712109	0.14	7.79	7.3	40	3.22	0.09	0.33	< 0.02	65.7	12.2	226	1.13	49.7	2.37	20.4	0.05	5.2	0.012	0.92	27.0	20.6	1.83	92
712110	0.31	1.64	68.7	10	0.90	0.34	6.66	2.38	45.7	113	150	0.15	27.2	2.78	5.34	< 0.05	< 0.1	0.152	0.14	17.1	53.8	5.14	414
712111	0.36	6.92	82.7	20	2.15	0.38	0.47	0.16	14.1	75.8	186	0.10	26.1	3.50	15.8	< 0.05	3.8	0.009	0.28	5.2	36.1	2.49	121
712112	0.10	6.47	16.2	50	1.93	0.06	0.33	0.16	67.9	27.0	128	0.38	29.1	2.38	16.7	< 0.05	3.8	0.008	0.71	30.5	38.2	2.74	49
712113	0.06	5.53	17.5	50	1.43	0.04	0.25	< 0.02	51.4	23.9	324	0.18	12.3	2.32	11.8	< 0.05	2.7	< 0.005	1.35	23.1	30.5	1.56	137
712114	0.06	6.33	32.4	50	1.41	0.09	1.46	< 0.02	64.6	46.7	142	0.07	15.4	2.26	13.1	< 0.05	3.2	< 0.005	1.83	28.7	9.7	1.42	257
712115	0.06	3.70	114	30	0.78	0.38	3.87	< 0.02	59.8	116	251	0.09	22.8	4.88	8.43	< 0.05	1.0	0.009	0.81	23.2	7.1	2.39	352
712116	0.03	4.13	83.0	20	0.77	0.32	2.48	< 0.02	113	128	123	0.05	6.9	4.94	9.02	< 0.05	0.8	0.012	0.71	47.4	4.8	1.53	190
712117	0.08	3.78	8.4	20	0.61	0.03	0.11	< 0.02	29.3	7.2	603	< 0.05	8.5	1.20	6.54	< 0.05	2.0	0.005	0.92	12.8	3.5	0.25	122
712118	0.04	0.09	83.9	10	0.20	0.18	16.8	< 0.02	39.6	80.6	149	0.13	12.5	5.10	0.31	< 0.05	< 0.1	0.033	0.04	13.4	3.5	9.38	699
712119	0.03	1.94	17.8	20	0.44	0.05	3.56	< 0.02	16.9	17.8	222	0.18	22.0	2.21	4.67	< 0.05	1.5	0.007	0.34	6.4	3.2	1.95	278
712120	< 0.01	0.92	45.2	< 10	0.21	0.16	5.37	< 0.02	16.1	36.9	118	0.06	18.6	2.31	2.30	< 0.05	0.4	< 0.005	0.09	5.6	1.2	2.65	245
712121	0.05	6.74	28.6	30	1.40	0.09	1.96	< 0.02	121	40.2	212	0.25	12.1	2.18	17.6	< 0.05	3.5	< 0.005	0.54	52.2	4.3	1.39	131
712122	0.01	0.85	20.7	10	0.21	0.05	3.20	< 0.02	10.7	22.1	196	0.09	20.5	2.33	1.56	< 0.05	0.4	< 0.005	0.18	4.2	1.2	1.65	246
712123	0.03	6.81	10.0	170	2.31	0.05	0.20	< 0.02	65.7	12.3	193	0.92	19.7	1.35	15.5	0.13	4.7	0.014	1.14	28.9	9.1	1.07	50
712124	0.05	5.90	20.5	50	1.09	0.07	7.44	< 0.02	62.9	15.7	120	0.61	14.9	2.23	12.4	< 0.05	2.8	0.008	0.56	27.7	4.7	4.64	258
712125	0.03	2.78	6.8	30	0.55	0.06	0.10	< 0.02	21.2	5.9	288	0.31	16.0	1.24	5.52	< 0.05	0.8	< 0.005	0.32	9.4	2.5	0.32	103
712126	0.05	6.02	17.4	100	1.63	0.57	0.21	< 0.02	19.4	22.2	227	0.76	46.9	1.57	13.3	< 0.05	4.5	0.013	1.20	7.9	7.6	0.97	92
712127	0.02	0.41	197	20	0.12	0.32	4.80	< 0.02	28.0	236	162	0.06	28.8	8.08	0.77	< 0.05	0.2	0.010	0.12	8.9	1.3	2.43	260
712128	0.03	3.41	145	30	0.69	0.19	5.64	< 0.02	42.9	204	83	0.31	27.7	6.68	7.80	< 0.05	2.4	0.016	0.41	16.5	3.8	3.30	243
712129	0.02	2.24	94.4	30	0.32	0.21	5.52	< 0.02	58.7	82.4	155	< 0.05	13.6	3.59	4.19	< 0.05	1.2	< 0.005	0.22	23.8	1.3	2.81	280
712130	0.03	3.25	104	20	0.46	0.12	6.02	< 0.02	44.7	160	84	0.07	7.5	5.79	7.19	< 0.05	1.3	0.008	0.24	15.8	1.6	3.11	218
712131	0.05	6.22	32.9	60	0.93	0.16	1.76	< 0.02	77.8	52.2	232	0.39	20.0	3.07	13.0	< 0.05	2.4	< 0.005	0.45	32.3	2.6	1.20	148
712132	0.05	4.31	53.4	30	0.78	0.23	5.34	< 0.02	53.0	65.0	146	0.30	15.7	3.53	9.47	< 0.05	2.4	< 0.005	0.30	21.2	3.0	2.93	241
712133	0.04	5.18	51.5	30	1.24	0.10	3.10	< 0.02	57.0	70.9	186	0.46	14.4	3.51	11.2	< 0.05	2.6	< 0.005	0.46	23.4	3.0	1.79	189
712134	0.01	3.22	83.0	20	0.58	0.11	4.85	< 0.02	51.0	127	110	0.13	16.5	5.00	6.53	< 0.05	1.4	< 0.005	0.19	19.5	1.6	2.45	172
712135	< 0.01	0.07	0.5	< 10	< 0.05	< 0.01	1.70	< 0.02	251	1.3	201	< 0.05	3.8	1.47	0.25	< 0.05	< 0.1	< 0.005	0.02	110	0.6	0.79	201
712136	< 0.01	1.33	28.8	10	0.16	0.08	2.44	< 0.02	144	43.3	199	0.07	7.8	2.60	2.45	< 0.05	0.5	0.006	0.10	62.9	0.9	1.19	196
712137	0.02	2.18	68.0	20	0.36	0.32	4.81	< 0.02	23.9	85.1	232	0.07	18.9	4.05	3.89	< 0.05	0.8	< 0.005	0.30	8.8	1.4	2.39	249
712138	0.06	6.17	18.3	100	1.05	0.08	0.56	< 0.02	27.9	22.3	208	0.45	21.3	1.69	12.0	< 0.05	2.6	< 0.005	0.71	11.3	3.3	0.51	110
712139	0.06	5.84	13.9	70	1.00	0.06	0.51	< 0.02	40.1	18.6	456	0.38	24.0	1.23	11.6	< 0.05	3.2	< 0.005	0.63	17.2	2.4	0.38	81
712140	0.16	7.47	1.7	140	0.29	0.05	6.91	0.13	10.5	46.6	162	0.11	156	8.54	14.4	0.27	0.6	0.057	0.20	3.6	11.7	4.21	1340
712141	0.06	6.51	9.6	120	1.15	0.09	0.37	< 0.02	39.8	16.3	196	0.89	17.5	1.87	12.7	< 0.05	3.1	0.006	0.97	16.4	4.2	0.60	102
712142	0.06	4.25	33.1	30	0.76	0.05	1.35	< 0.02	93.3	71.4	296	0.26	7.7	2.62	9.61	< 0.05	2.1	< 0.005	0.35	38.5	1.5	0.69	127

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5
Method Code	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP
712143	< 0.01	2.28	50.6	10	0.56	0.05	8.12	< 0.02	70.3	88.3	94	0.05	4.3	4.28	4.83	< 0.05	1.1	0.009	0.20	26.3	1.2	3.81	372
712144	< 0.01	1.66	60.5	< 10	0.33	0.07	9.07	< 0.02	71.4	87.5	158	< 0.05	1.8	4.68	3.42	< 0.05	0.8	0.010	0.21	27.3	1.3	4.32	403
712145	< 0.01	3.46	82.6	10	0.71	0.09	2.09	< 0.02	77.5	186	124	< 0.05	6.6	5.99	6.03	< 0.05	2.3	< 0.005	0.18	32.1	0.5	0.94	188
712146	0.02	2.18	82.5	20	0.44	0.05	2.42	< 0.02	64.3	174	207	< 0.05	12.5	5.68	4.06	< 0.05	0.4	< 0.005	0.19	23.9	0.6	0.99	189
712147	0.02	3.16	54.5	20	0.71	0.12	2.93	< 0.02	80.3	109	147	0.06	8.5	4.79	6.70	< 0.05	0.7	< 0.005	0.82	32.1	3.0	1.41	368
712148	0.05	5.48	26.7	30	0.86	0.23	1.19	< 0.02	80.8	53.4	452	0.18	12.1	2.62	11.0	< 0.05	2.8	< 0.005	1.03	34.0	5.2	0.88	192
712149	0.05	5.57	44.1	20	1.02	0.11	2.88	< 0.02	124	115	226	< 0.05	8.3	3.74	12.4	< 0.05	2.6	< 0.005	0.38	51.8	1.3	1.29	269
712150	< 0.01	11.0	0.9	20	0.76	< 0.01	0.27	< 0.02	2.90	0.4	4	0.73	0.5	0.85	24.7	< 0.05	0.5	< 0.005	2.72	1.2	29.8	0.04	198
709501	0.04	6.61	16.3	30	1.25	0.08	2.44	< 0.02	64.3	39.1	249	0.13	9.5	1.54	15.3	< 0.05	3.2	< 0.005	0.39	26.8	2.8	1.23	214
709502	0.03	5.84	31.9	20	0.93	0.02	2.61	< 0.02	85.7	29.0	213	0.14	4.7	1.92	12.9	< 0.05	2.8	< 0.005	0.29	36.0	1.5	1.28	246
709503	0.04	5.99	48.9	30	0.95	0.06	2.41	< 0.02	53.7	31.6	241	0.39	9.7	2.70	14.0	< 0.05	2.8	< 0.005	0.42	22.2	3.3	1.45	258
709504	0.03	5.13	83.1	20	0.93	0.16	2.82	< 0.02	68.6	72.3	241	0.08	8.0	2.86	11.2	< 0.05	2.3	< 0.005	0.32	27.8	0.9	1.29	204
709505	0.04	6.23	67.2	40	1.06	0.07	2.11	< 0.02	97.4	53.4	295	0.27	12.9	2.89	14.1	< 0.05	3.0	< 0.005	0.58	39.6	2.9	1.19	266
709506	0.06	7.28	23.6	40	1.39	0.03	0.80	< 0.02	60.0	25.9	227	0.98	46.2	2.12	18.9	< 0.05	4.1	0.006	0.85	25.5	7.1	1.30	78
709507	0.10	9.00	66.9	30	1.39	0.04	1.09	< 0.02	82.3	25.6	227	1.03	30.5	2.12	22.7	< 0.05	4.8	< 0.005	0.59	35.7	6.3	1.56	118
709508	0.02	3.19	46.3	20	0.56	0.10	1.19	< 0.02	36.8	38.3	224	0.28	10.6	1.83	7.61	< 0.05	1.1	< 0.005	0.34	15.6	2.5	0.77	115
709509	0.03	5.78	35.6	30	1.01	0.02	2.18	< 0.02	45.9	20.4	194	0.34	17.3	1.72	13.1	< 0.05	2.5	< 0.005	0.41	20.4	1.9	1.27	142
709510	0.09	6.73	31.5	40	2.86	0.13	0.27	0.31	31.3	28.8	270	0.13	10.7	2.40	20.8	0.05	3.7	0.031	0.73	15.1	31.0	2.18	109
709511	0.12	2.27	577	10	0.45	0.30	0.07	0.32	13.8	162	215	< 0.05	42.9	10.4	12.6	0.06	0.9	0.056	0.68	6.5	8.3	0.39	46
709512	0.09	2.19	651	20	0.51	0.52	0.10	0.22	17.7	192	183	< 0.05	48.2	11.5	10.3	0.10	0.9	0.067	0.62	7.8	8.0	0.40	52
709513	0.07	4.21	133	30	1.05	0.20	0.33	0.08	28.7	46.1	218	0.08	31.6	4.35	12.8	< 0.05	2.1	0.037	0.80	13.4	12.6	0.76	107
709514	0.05	4.14	63.3	20	1.05	0.04	0.22	0.86	24.5	21.8	189	0.20	32.8	2.29	12.5	< 0.05	1.9	0.162	0.65	11.0	11.8	0.71	50
709515	0.03	7.18	3.7	60	2.41	0.04	1.14	0.52	63.7	8.9	279	1.00	65.5	2.23	20.3	0.37	3.2	0.009	0.94	28.9	7.5	1.27	175
709516	0.08	7.02	20.2	40	2.33	0.05	1.26	0.32	61.3	28.1	183	0.42	51.5	2.19	16.8	< 0.05	3.0	0.006	0.89	27.3	5.7	1.20	172
709517	0.06	3.69	87.8	20	1.09	0.10	3.90	< 0.02	55.6	165	160	0.08	7.6	6.14	8.27	< 0.05	1.9	0.005	0.32	21.7	2.9	2.02	322
709518	0.07	5.41	68.8	30	1.41	0.18	2.10	< 0.02	117	133	312	0.08	4.7	4.30	11.7	< 0.05	2.7	< 0.005	0.45	50.2	3.0	1.16	239
709519	0.04	6.69	25.4	50	1.75	0.02	2.49	< 0.02	115	52.4	216	< 0.05	9.7	2.40	12.2	< 0.05	2.4	0.008	0.54	49.5	2.6	1.27	262
709520	0.04	6.08	40.3	40	1.45	0.11	2.27	< 0.02	233	60.4	238	0.33	19.2	2.40	12.9	< 0.05	3.1	< 0.005	0.51	98.3	3.8	1.50	210
709521	0.07	4.84	89.4	50	0.97	0.14	2.34	< 0.02	192	168	205	< 0.05	12.7	5.55	10.4	< 0.05	2.6	< 0.005	0.45	82.0	2.7	1.17	267
709522	0.07	7.46	22.4	20	2.25	0.06	1.84	< 0.02	107	20.7	173	< 0.05	10.5	1.03	19.0	< 0.05	4.5	0.005	0.40	46.3	2.2	0.98	125
709523	0.04	7.28	16.7	10	1.92	0.01	2.67	< 0.02	214	20.6	208	< 0.05	5.6	1.40	18.7	< 0.05	3.9	< 0.005	0.41	93.2	1.6	1.35	157
709524	0.05	6.12	56.4	20	2.29	0.05	2.07	< 0.02	112	78.5	187	< 0.05	7.5	3.11	13.1	< 0.05	3.1	0.007	0.31	49.5	1.4	1.01	114
709525	0.03	4.51	81.3	20	1.13	0.08	2.84	< 0.02	70.3	154	151	< 0.05	12.2	5.28	9.82	< 0.05	2.2	0.006	0.27	29.2	1.1	1.31	128
709526	0.03	4.01	99.4	10	1.34	0.30	2.90	< 0.02	68.7	136	160	< 0.05	5.3	5.62	8.72	< 0.05	1.8	< 0.005	0.31	28.5	1.1	1.38	178
709527	0.04	3.89	90.8	30	0.78	0.40	1.87	< 0.02	60.0	76.6	355	< 0.05	12.5	2.78	8.07	< 0.05	2.1	< 0.005	0.35	25.1	1.3	0.89	104
709528	0.03	2.64	27.8	20	0.47	0.09	3.74	< 0.02	89.6	22.3	261	< 0.05	12.4	2.00	4.65	< 0.05	1.3	< 0.005	0.14	40.2	0.9	1.86	215
709529	0.03	6.94	12.1	60	1.55	0.06	0.83	< 0.02	105	24.2	153	0.70	8.5	2.03	17.6	< 0.05	3.8	< 0.005	1.11	46.3	11.1	1.52	76
709530	0.04	6.93	38.1	40	2.03	0.10	1.70	< 0.02	38.8	42.6	252	0.16	12.9	2.04	15.7	< 0.05	3.9	< 0.005	0.97	16.7	3.4	1.05	145
709531	0.04	5.23	110	30	1.02	0.22	2.33	< 0.02	124	103	144	0.33	10.7	4.42	13.0	< 0.05	2.7	0.012	0.63	53.4	4.0	1.59	135
709532	0.03	2.72	152	20	0.52	0.32	3.27	< 0.02	72.5	201	227	< 0.05	8.0	7.19	5.92	< 0.05	1.3	< 0.005	0.26	28.3	1.2	1.49	192
709533	0.14	6.51	10.5	180	1.34	0.07	0.55	0.17	24.6	20.2	187	0.56	32.1	1.47	11.4	< 0.05	2.9	0.028	2.33	10.2	6.5	0.73	80
709534	0.08	6.74	8.1	190	1.40	0.06	0.50	0.26	29.9	12.6	240	0.87	14.2	2.21	13.1	< 0.05	3.0	0.024	1.76	12.3	7.4	0.87	120

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5
Method Code	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP
709535	0.06	5.84	15.0	60	1.27	0.08	0.62	< 0.02	26.7	15.7	279	0.43	15.2	1.26	11.4	< 0.05	2.7	0.012	0.79	11.8	3.7	0.57	73
709536	0.08	7.50	9.0	70	2.05	0.07	0.35	< 0.02	61.5	12.1	222	0.97	13.1	1.43	17.4	< 0.05	5.7	0.009	0.97	27.3	6.3	1.04	53
709537	0.04	7.86	11.4	160	2.67	0.11	0.17	< 0.02	76.4	14.8	159	0.86	22.2	1.47	20.4	< 0.05	5.7	0.011	1.25	33.5	10.1	1.18	80
709538	0.05	3.39	297	20	0.77	1.43	4.84	< 0.02	116	189	161	< 0.05	43.2	8.53	8.13	< 0.05	1.3	< 0.005	0.41	47.5	1.5	2.35	182
709539	0.02	2.42	176	10	0.49	0.25	4.57	< 0.02	58.5	200	112	< 0.05	12.3	6.64	5.45	< 0.05	0.6	< 0.005	0.25	22.2	1.3	2.22	157
709540	0.13	7.60	2.4	150	0.31	0.05	6.94	0.04	9.97	44.6	170	0.15	153	8.67	13.3	0.31	0.8	0.057	0.20	3.5	11.6	4.22	1350
709541	0.06	1.73	400	20	0.33	0.79	4.79	< 0.02	51.5	371	133	0.05	27.5	10.6	3.79	< 0.05	0.6	0.020	0.33	18.7	2.0	2.41	225
709542	0.10	3.85	230	50	0.94	1.23	0.68	< 0.02	36.6	264	139	0.46	63.6	7.75	8.34	< 0.05	2.6	0.010	0.78	14.6	5.9	0.77	84
709543	0.07	6.28	7.6	150	2.08	0.02	0.25	< 0.02	45.2	8.4	212	0.99	12.8	1.60	16.7	< 0.05	4.1	0.012	0.89	20.3	7.0	1.00	66
709544	< 0.01	0.04	8.1	< 10	< 0.05	0.01	0.48	< 0.02	4.70	15.2	308	< 0.05	10.8	0.84	0.09	0.13	< 0.1	< 0.005	< 0.01	2.2	0.5	0.23	76
709545	0.10	6.14	117	40	1.43	0.32	1.76	0.09	35.1	133	188	0.17	64.1	5.49	14.1	< 0.05	2.7	< 0.005	0.58	13.9	4.3	1.10	163
709546	0.05	5.84	240	40	1.09	0.63	1.69	< 0.02	61.5	263	157	0.46	18.0	8.77	14.0	< 0.05	0.8	0.007	0.76	24.4	7.7	1.49	159
709547	0.05	3.26	82.3	10	0.61	0.08	2.16	< 0.02	58.6	161	232	< 0.05	16.5	5.87	7.28	< 0.05	0.6	< 0.005	0.41	24.4	1.8	1.02	214
709548	0.10	7.24	2.5	70	2.55	0.04	1.23	0.54	53.4	10.7	356	1.09	70.9	2.45	17.6	< 0.05	3.0	0.020	1.10	23.9	6.5	1.59	164
709549	< 0.01	11.5	1.1	30	0.93	0.01	0.26	< 0.02	3.86	0.3	3	0.87	0.3	0.82	26.4	< 0.05	0.5	< 0.005	2.91	1.7	31.8	0.05	145

Analyte Symbol	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.05	0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1	0.1	0.1
Method Code	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS
712101	0.07	1.65	< 0.1	76.7	390	1.1	7.7	< 0.002	0.02	< 0.05	40.0	< 1	< 0.2	172	< 0.05	< 0.05	0.5	0.249	< 0.02	0.2	190	< 0.1	23.4
712102	0.14	1.56	0.9	85.2	410	0.8	6.7	< 0.002	0.02	< 0.05	39.2	< 1	0.6	149	< 0.05	< 0.05	0.5	0.424	< 0.02	0.2	240	< 0.1	20.6
712103	0.22	1.33	2.3	98.9	470	1.1	10.8	< 0.002	0.04	< 0.05	43.8	< 1	0.8	142	0.11	< 0.05	0.5	0.623	0.05	0.2	308	< 0.1	20.7
712104	0.09	3.01	< 0.1	73.8	420	2.0	31.9	0.002	0.10	< 0.05	17.8	< 1	0.3	37.3	< 0.05	< 0.05	8.0	0.128	0.18	3.4	93	< 0.1	15.3
712105	0.95	3.20	6.5	42.0	430	2.7	43.5	0.002	0.20	0.06	11.4	< 1	2.1	27.9	0.24	< 0.05	11.0	0.279	0.25	3.8	88	1.6	12.1
712106	0.20	2.92	0.3	57.7	450	3.4	46.0	< 0.002	0.18	0.10	18.7	< 1	1.8	29.1	< 0.05	< 0.05	8.0	0.269	0.38	3.8	119	< 0.1	13.1
712107	0.93	3.69	4.1	42.9	430	2.2	32.9	< 0.002	0.12	< 0.05	11.4	< 1	1.7	31.8	0.10	< 0.05	9.6	0.278	0.17	3.6	89	1.1	13.5
712108	1.18	5.75	10.0	53.9	460	4.7	26.5	0.003	0.49	0.11	14.7	< 1	1.4	35.5	0.44	0.07	12.9	0.335	0.14	4.3	113	2.7	13.1
712109	1.10	5.01	10.3	46.9	550	5.1	29.9	0.002	0.30	0.31	12.2	1	1.4	38.6	0.76	0.09	12.4	0.293	0.13	4.5	91	2.8	13.4
712110	0.38	0.57	1.7	248	1580	11.2	3.8	< 0.002	0.44	0.94	54.5	1	0.7	42.3	< 0.05	0.13	2.5	0.051	0.27	1.0	59	1.3	43.1
712111	1.60	4.58	11.9	213	930	7.8	2.3	< 0.002	0.68	0.89	12.7	3	2.8	19.9	0.80	0.39	11.0	0.306	0.25	5.8	84	6.8	19.3
712112	1.10	3.98	7.3	70.6	450	3.4	11.2	< 0.002	0.30	0.33	12.4	< 1	2.1	25.5	0.45	0.09	10.2	0.249	0.11	4.7	89	3.1	11.7
712113	1.07	2.99	8.8	69.8	430	1.8	9.0	< 0.002	0.40	0.25	7.4	< 1	1.9	22.3	0.39	0.20	6.8	0.208	< 0.02	3.2	68	4.8	9.5
712114	1.04	3.61	7.1	106	550	2.1	9.4	< 0.002	1.35	0.17	12.1	2	2.3	27.7	0.47	0.35	9.1	0.236	< 0.02	3.7	72	7.1	14.8
712115	1.08	2.23	7.6	253	1560	2.7	5.1	< 0.002	3.61	0.31	25.9	6	2.5	33.0	0.11	0.25	5.5	0.106	< 0.02	2.4	60	3.4	33.5
712116	1.11	2.75	3.9	285	1270	3.0	4.2	< 0.002	4.91	0.23	13.0	8	0.9	22.9	0.14	0.37	9.9	0.118	< 0.02	1.5	56	2.9	23.4
712117	0.99	2.42	11.4	19.4	180	1.9	5.0	< 0.002	0.17	0.20	2.5	< 1	0.5	12.3	0.23	< 0.05	7.5	0.113	< 0.02	2.6	29	2.3	3.8
712118	< 0.05	0.05	0.2	240	280	3.3	1.4	< 0.002	2.16	0.28	113	3	1.7	108	< 0.05	0.14	0.6	< 0.005	< 0.02	< 0.1	101	0.7	71.0
712119	0.64	1.33	5.0	51.3	130	1.4	5.4	< 0.002	0.36	0.19	23.3	< 1	3.5	29.9	0.17	< 0.05	3.4	0.071	< 0.02	1.1	38	2.0	10.9
712120	1.67	0.68	1.8	90.7	590	1.6	1.3	0.002	1.28	0.22	27.0	1	2.5	32.6	< 0.05	0.11	0.9	0.028	< 0.02	0.4	29	0.8	20.3
712121	2.18	4.81	8.5	93.2	600	2.0	7.9	0.002	1.08	0.15	8.5	< 1	2.3	42.8	0.44	0.16	13.6	0.218	< 0.02	2.8	83	4.2	12.9
712122	0.49	0.56	2.3	54.9	250	1.0	2.7	< 0.002	0.70	0.12	17.6	< 1	2.6	18.8	< 0.05	< 0.05	0.9	0.018	< 0.02	0.3	20	0.6	10.3
712123	0.83	4.10	4.7	24.7	360	2.6	30.9	< 0.002	0.15	0.13	7.3	< 1	3.0	37.4	< 0.05	< 0.05	12.4	0.216	0.07	4.2	58	1.8	9.3
712124	1.95	4.11	8.0	42.5	270	1.9	21.4	< 0.002	0.39	0.08	48.6	< 1	1.7	61.7	0.60	0.09	9.4	0.191	< 0.02	3.1	89	2.3	26.8
712125	1.60	1.97	5.5	15.9	130	1.1	10.4	< 0.002	0.09	0.19	3.2	< 1	1.9	12.7	0.15	< 0.05	4.8	0.106	< 0.02	1.6	30	2.1	4.4
712126	0.58	3.70	9.8	48.6	310	2.2	25.4	< 0.002	0.22	0.35	9.3	< 1	6.7	32.2	0.66	< 0.05	10.6	0.233	0.09	4.0	60	4.8	8.7
712127	0.76	0.21	2.2	567	1070	3.3	1.7	< 0.002	6.55	0.52	29.2	15	3.1	29.6	< 0.05	0.34	0.9	0.013	< 0.02	0.2	39	0.5	42.1
712128	0.79	2.36	3.7	506	890	2.9	10.1	< 0.002	5.83	0.30	41.8	12	3.3	53.6	0.25	0.32	5.8	0.099	0.05	2.1	75	1.9	37.7
712129	0.66	1.68	3.7	205	520	2.0	2.6	< 0.002	2.32	0.19	27.4	4	1.9	37.8	0.11	0.13	4.5	0.046	< 0.02	0.8	40	2.0	24.0
712130	0.65	2.53	3.4	416	1310	2.4	2.8	< 0.002	5.19	0.28	29.0	10	1.5	42.3	0.13	0.20	5.9	0.078	< 0.02	1.1	49	2.9	34.2
712131	8.19	4.36	7.8	112	490	2.4	14.8	0.021	1.43	0.35	10.1	2	2.2	31.6	0.39	0.15	11.3	0.186	0.08	2.3	48	5.2	8.9
712132	1.46	3.19	5.7	153	700	2.0	8.6	< 0.002	1.91	0.22	39.0	2	2.9	52.2	0.33	0.21	6.0	0.153	< 0.02	2.3	72	5.7	21.4
712133	1.11	3.72	7.2	174	680	1.7	13.9	< 0.002	1.84	0.30	20.8	3	2.9	47.6	0.40	0.24	6.8	0.195	< 0.02	2.4	72	6.2	22.9
712134	0.69	2.45	3.6	314	1100	1.6	4.2	< 0.002	4.20	0.23	29.7	7	2.2	42.0	0.17	0.38	4.4	0.091	< 0.02	1.0	49	3.7	29.8
712135	0.55	0.04	2.1	11.0	130	0.8	0.5	< 0.002	0.01	0.15	10.0	< 1	0.6	9.8	< 0.05	< 0.05	4.7	< 0.005	< 0.02	0.1	11	0.4	9.0
712136	0.64	0.99	3.0	103	370	1.2	1.8	< 0.002	1.28	0.16	15.9	2	1.3	20.3	0.06	0.10	4.0	0.032	< 0.02	0.6	25	1.5	15.6
712137	0.30	1.56	4.5	204	590	1.4	3.3	< 0.002	2.59	0.15	35.2	4	3.0	38.3	0.09	0.21	1.7	0.044	< 0.02	0.7	40	3.7	27.6
712138	0.68	4.27	7.4	50.7	270	2.1	17.1	< 0.002	0.35	0.25	6.5	< 1	1.4	39.5	0.42	0.15	7.1	0.179	0.07	2.9	54	4.4	5.9
712139	0.48	4.16	10.1	32.5	270	1.6	14.9	< 0.002	0.34	0.21	6.6	< 1	4.4	29.1	0.46	0.23	7.3	0.182	0.02	3.6	56	4.9	4.8
712140	0.08	2.33	< 0.1	97.4	340	3.1	3.1	< 0.002	0.15	< 0.05	45.2	< 1	0.3	107	< 0.05	< 0.05	0.4	0.171	< 0.02	0.1	140	< 0.1	19.9
712141	0.68	4.17	8.3	38.5	300	2.7	28.4	< 0.002	0.24	0.24	6.1	< 1	2.5	35.7	0.47	0.11	8.3	0.204	0.14	3.1	59	5.7	6.2
712142	2.47	3.15	8.7	151	670	1.2	10.0	< 0.002	1.71	0.16	9.8	3	1.7	20.9	0.37	0.19	8.9	0.142	< 0.02	1.4	52	3.2	14.3

Analyte Symbol	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.05	0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1	0.1	0.1
Method Code	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS
712143	0.56	1.76	2.7	228	1450	1.2	1.3	< 0.002	2.33	0.20	49.2	4	1.0	51.9	0.11	0.12	4.5	0.088	< 0.02	1.0	63	3.5	29.4
712144	1.08	1.26	3.2	226	1160	1.0	1.2	< 0.002	2.50	0.25	44.5	4	0.4	50.1	0.11	0.14	3.1	0.059	< 0.02	0.6	63	2.4	28.4
712145	2.09	2.68	3.7	361	540	1.1	1.0	0.003	4.95	0.13	10.9	9	1.2	19.7	0.19	0.40	6.8	0.091	< 0.02	0.8	32	2.0	12.5
712146	2.44	1.63	3.6	405	1540	1.3	1.3	0.005	4.61	0.16	14.2	9	2.2	17.8	0.06	0.42	5.1	0.061	< 0.02	0.7	67	2.4	31.2
712147	3.98	1.96	4.5	224	1330	1.4	3.8	0.008	2.90	0.24	18.3	4	1.5	24.5	0.13	0.22	7.6	0.104	< 0.02	0.9	73	4.2	26.3
712148	3.80	3.47	9.2	118	620	1.4	7.9	0.005	1.30	1.22	10.4	2	1.7	26.4	0.43	0.21	7.8	0.195	< 0.02	1.4	72	3.7	10.2
712149	8.99	3.96	7.3	182	950	2.0	2.7	0.019	2.49	0.43	10.1	4	2.3	30.6	0.42	0.39	9.5	0.215	< 0.02	1.7	76	4.9	16.3
712150	0.57	7.45	0.3	0.8	< 10	4.3	35.9	< 0.002	< 0.01	0.10	< 0.1	< 1	0.7	24.5	< 0.05	< 0.05	< 0.2	< 0.005	0.83	< 0.1	< 1	< 0.1	2.3
709501	1.16	4.80	9.1	71.5	520	1.5	5.7	< 0.002	0.63	0.31	13.6	< 1	3.9	33.4	0.50	0.31	8.9	0.262	< 0.02	3.0	89	4.4	14.6
709502	1.29	4.25	6.8	82.2	420	1.4	4.1	< 0.002	0.79	0.22	11.1	1	1.5	33.8	0.37	0.26	7.5	0.194	< 0.02	2.0	67	3.6	10.3
709503	1.42	4.15	7.5	106	490	1.6	10.7	< 0.002	1.02	0.30	19.3	1	2.2	42.6	0.43	0.25	7.4	0.195	< 0.02	2.5	83	3.5	13.7
709504	1.72	3.80	6.6	163	770	1.6	3.8	0.002	2.10	0.54	14.5	3	2.2	44.7	0.36	0.37	7.0	0.193	< 0.02	1.8	64	5.7	16.6
709505	2.32	4.36	8.2	137	740	1.9	10.1	0.003	1.40	0.50	14.2	2	2.2	45.3	0.47	0.22	9.1	0.259	< 0.02	2.4	88	5.2	13.8
709506	1.36	4.79	9.8	98.7	450	2.9	24.8	< 0.002	0.53	0.27	14.3	1	1.3	47.2	0.60	0.12	10.4	0.286	0.12	4.0	101	2.4	11.4
709507	2.90	6.32	14.4	102	510	2.8	24.0	< 0.002	0.67	0.46	17.4	< 1	1.8	49.8	0.96	0.17	16.2	0.363	0.05	5.2	128	3.1	15.2
709508	1.37	2.23	4.7	92.6	390	1.3	8.2	< 0.002	1.00	0.30	9.7	1	2.3	25.7	0.18	0.14	4.1	0.117	< 0.02	1.3	49	1.9	9.7
709509	0.95	4.06	7.1	79.1	410	1.4	9.0	0.002	0.59	0.27	12.6	< 1	3.1	51.2	0.40	0.25	6.6	0.233	< 0.02	1.9	82	2.3	9.3
709510	1.11	4.41	6.9	80.0	370	3.3	8.0	< 0.002	0.28	0.31	13.3	< 1	1.6	27.9	0.32	0.06	9.8	0.258	0.07	8.9	113	4.0	14.2
709511	0.75	1.26	4.0	293	130	3.6	3.2	< 0.002	> 10.0	0.38	2.1	4	0.5	8.1	0.11	1.57	2.9	0.049	< 0.02	2.4	21	1.2	6.1
709512	0.45	1.27	3.6	362	120	3.4	3.2	< 0.002	> 10.0	0.33	2.1	6	0.4	9.1	0.09	1.88	2.7	0.041	< 0.02	1.3	17	1.2	3.9
709513	5.21	2.72	7.1	117	280	2.5	5.1	< 0.002	3.56	0.31	5.9	2	0.8	17.6	0.32	0.49	5.5	0.136	< 0.02	1.7	47	2.1	23.0
709514	0.65	2.85	6.5	77.2	240	1.7	7.9	< 0.002	1.76	0.16	5.4	< 1	1.0	16.4	0.31	0.27	5.3	0.133	< 0.02	2.1	48	1.6	7.8
709515	0.76	4.50	3.6	55.9	430	4.7	21.9	< 0.002	0.22	0.10	13.7	< 1	1.1	55.1	< 0.05	< 0.05	7.8	0.224	0.08	2.7	77	0.2	13.2
709516	0.96	4.58	6.2	115	560	4.1	13.7	< 0.002	0.88	0.15	9.6	1	0.9	43.1	0.38	0.18	7.8	0.237	0.06	4.1	79	3.7	10.4
709517	1.91	2.74	6.3	395	1180	2.5	4.1	0.002	5.00	0.24	26.1	9	1.1	32.4	0.30	0.40	7.4	0.119	< 0.02	1.5	76	3.7	28.4
709518	4.70	3.88	7.4	277	680	2.7	3.7	0.007	3.49	0.28	10.6	6	1.5	28.6	0.43	0.49	12.3	0.196	< 0.02	2.4	99	12.5	11.6
709519	2.80	4.67	7.8	113	570	2.1	3.7	0.003	1.18	0.26	9.7	2	1.5	50.0	0.34	0.12	10.6	0.190	< 0.02	2.3	80	10.1	9.8
709520	3.33	4.14	7.5	162	630	3.1	9.7	0.005	1.26	0.22	10.9	2	2.5	51.0	0.42	0.14	21.9	0.229	< 0.02	1.6	123	9.7	12.8
709521	17.6	3.54	8.0	363	960	3.3	2.4	0.039	4.17	0.23	10.1	7	1.8	26.8	0.38	0.41	18.2	0.171	< 0.02	1.4	88	11.9	17.6
709522	0.93	5.76	11.8	54.3	480	2.2	2.6	< 0.002	0.40	0.20	10.3	< 1	1.9	37.3	0.74	0.20	11.3	0.266	< 0.02	5.1	83	7.1	13.2
709523	1.68	5.48	8.0	30.7	460	2.7	2.0	< 0.002	0.45	0.17	12.3	< 1	1.6	38.3	0.46	0.18	16.2	0.232	< 0.02	6.4	75	5.6	12.3
709524	1.82	4.49	8.0	216	840	2.2	2.0	0.002	2.68	0.15	10.7	4	1.6	30.8	0.36	0.35	13.7	0.182	< 0.02	3.5	61	7.1	19.3
709525	2.28	3.42	5.9	356	1340	3.4	1.8	0.003	4.97	0.17	14.3	9	1.7	30.3	0.26	0.51	6.3	0.112	< 0.02	8.2	50	5.0	25.4
709526	2.41	3.04	5.3	330	1120	2.2	1.9	0.004	4.94	0.26	11.4	8	1.2	27.8	0.23	0.45	7.0	0.108	< 0.02	1.5	60	3.9	22.3
709527	0.79	2.88	6.8	176	660	1.9	2.8	< 0.002	2.38	0.34	9.0	4	2.6	28.4	0.28	0.26	6.6	0.130	< 0.02	1.8	41	4.0	14.2
709528	0.56	2.03	5.0	54.2	270	1.5	1.9	< 0.002	0.58	0.18	21.4	< 1	1.6	29.4	0.13	0.10	5.6	0.063	< 0.02	1.0	34	1.7	14.3
709529	1.08	4.12	7.0	75.4	390	2.3	19.6	< 0.002	0.43	0.21	14.1	< 1	1.8	50.8	0.47	0.07	13.0	0.256	0.07	3.7	110	3.9	11.3
709530	1.43	4.55	8.7	85.5	590	2.0	7.2	0.002	1.05	0.17	11.1	1	1.8	48.6	0.47	0.14	10.5	0.221	< 0.02	5.2	77	4.9	11.6
709531	1.14	3.56	5.5	263	960	3.1	12.9	0.002	3.53	0.27	17.0	6	0.8	49.6	0.33	0.24	12.9	0.137	0.03	2.1	77	3.3	22.0
709532	1.67	2.02	6.0	496	2080	2.5	1.8	< 0.002	6.90	0.58	18.8	12	1.0	25.9	0.14	0.45	6.1	0.062	< 0.02	0.9	54	2.4	39.5
709533	0.78	3.61	6.2	51.2	290	6.8	23.0	< 0.002	0.30	0.32	6.6	< 1	1.1	31.2	0.38	0.08	8.5	0.170	0.12	3.6	50	2.5	5.9
709534	0.91	3.79	8.0	38.3	310	5.3	27.3	< 0.002	0.23	0.24	7.4	< 1	1.9	30.8	0.44	< 0.05	8.9	0.203	0.12	3.8	62	2.4	5.7

Analyte Symbol	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.05	0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1	0.1	0.1
Method Code	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS
709535	0.55	4.04	8.7	35.6	260	3.2	17.3	< 0.002	0.47	0.18	4.9	< 1	2.6	29.2	0.47	0.19	8.0	0.182	0.04	2.8	53	5.2	5.2
709536	1.10	5.10	11.3	31.4	350	4.7	29.4	< 0.002	0.25	0.13	10.2	< 1	4.9	46.3	0.63	0.06	14.5	0.236	0.08	4.9	73	6.4	11.1
709537	0.78	4.77	6.5	31.4	350	2.5	33.3	< 0.002	0.15	0.06	10.3	< 1	3.8	40.4	0.38	< 0.05	14.6	0.280	0.07	4.8	73	2.4	11.3
709538	3.37	2.45	4.3	475	2090	3.9	3.5	0.004	6.68	0.71	27.9	12	10.1	37.6	0.14	1.34	11.0	0.071	< 0.02	1.3	55	2.4	40.4
709539	0.88	1.79	2.8	528	1740	2.7	1.7	< 0.002	6.68	0.50	18.2	13	2.8	33.8	< 0.05	0.39	4.6	0.050	< 0.02	1.4	42	1.8	41.1
709540	0.20	2.37	0.1	94.9	350	3.1	3.0	< 0.002	0.15	0.07	41.7	< 1	0.3	102	< 0.05	< 0.05	0.4	0.251	< 0.02	0.1	161	< 0.1	19.4
709541	0.87	1.15	2.6	875	1680	4.5	3.5	< 0.002	> 10.0	1.09	22.1	22	3.2	34.2	0.07	0.84	3.7	0.036	0.03	0.7	39	1.5	48.9
709542	0.50	2.33	5.1	538	1190	4.4	16.4	< 0.002	7.21	0.32	8.5	15	3.9	24.5	0.32	0.63	6.3	0.103	0.10	2.4	42	2.8	24.0
709543	1.07	3.81	10.3	29.8	290	2.2	31.3	< 0.002	0.18	0.15	8.7	< 1	2.7	26.4	0.52	< 0.05	11.7	0.219	0.13	4.7	60	2.5	9.3
709544	0.24	0.03	4.1	24.7	20	0.9	0.2	< 0.002	0.42	0.12	4.6	< 1	2.6	3.8	< 0.05	< 0.05	< 0.2	< 0.005	< 0.02	0.2	5	0.1	2.9
709545	2.55	4.10	6.3	321	1240	5.2	9.3	0.005	4.20	0.22	15.2	8	1.8	38.0	0.28	0.62	6.4	0.141	< 0.02	2.1	70	3.2	23.6
709546	1.34	3.63	4.2	581	2600	5.0	10.0	0.002	7.90	0.55	23.2	13	3.0	38.2	0.07	0.57	5.6	0.100	0.03	2.2	72	3.5	47.2
709547	0.94	2.34	5.9	411	1490	2.9	2.2	< 0.002	4.55	0.31	18.8	9	3.5	18.9	0.10	0.30	5.2	0.115	< 0.02	1.4	49	3.6	36.6
709548	0.96	4.61	8.6	73.8	530	11.4	28.8	< 0.002	0.42	0.13	11.6	< 1	0.8	50.2	0.53	0.06	7.8	0.290	0.08	2.5	94	1.0	9.3
709549	0.09	7.51	0.3	0.7	10	4.8	43.8	< 0.002	< 0.01	0.11	< 0.1	< 1	0.7	34.7	< 0.05	< 0.05	0.3	< 0.005	0.86	0.2	< 1	< 0.1	3.0

Analyte Symbol	Yb	Zn	Zr	Ag	Co	Cu	Ni	Pb
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	2	0.5	0.3	1	1	1	3
Method Code	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
712101	2.6	87	67.8	< 0.3	51	234	78	< 3
712102	2.4	85	78.0	< 0.3	49	224	92	< 3
712103	2.3	71	88.7	< 0.3	48	247	99	< 3
712104	1.9	16	83.3	0.4	20	47	79	< 3
712105	1.5	7	127	0.4	12	11	47	< 3
712106	1.6	23	91.5	< 0.3	15	38	61	< 3
712107	1.7	10	119	< 0.3	15	40	48	< 3
712108	1.9	11	149	0.4	26	24	59	< 3
712109	1.9	36	179	0.6	13	49	50	< 3
712110	3.7	864	4.0	0.3	120	28	260	10
712111	2.4	72	130	0.6	83	27	230	< 3
712112	1.6	81	131	0.4	29	29	76	< 3
712113	1.1	5	95.5	< 0.3	26	13	75	< 3
712114	1.6	7	112	< 0.3	52	16	117	< 3
712115	2.7	6	52.5	0.4	127	23	265	< 3
712116	1.8	6	46.0	< 0.3	152	7	331	< 3
712117	0.5	5	72.8	< 0.3	8	10	22	< 3
712118	9.2	13	1.9	< 0.3	77	11	222	< 3
712119	1.5	6	52.1	< 0.3	18	22	51	< 3
712120	2.0	2	13.4	< 0.3	40	20	101	< 3
712121	1.2	5	116	< 0.3	44	13	103	< 3
712122	1.1	3	13.3	< 0.3	26	24	64	< 3
712123	1.3	4	156	0.4	13	21	28	< 3
712124	3.5	5	91.3	< 0.3	16	18	46	< 3
712125	0.6	3	22.9	< 0.3	7	17	19	< 3
712126	1.3	12	152	0.3	26	51	57	< 3
712127	4.0	8	8.0	< 0.3	254	28	596	< 3
712128	4.0	7	86.0	< 0.3	217	28	529	< 3
712129	2.4	4	52.1	< 0.3	90	15	224	< 3
712130	3.1	5	49.4	< 0.3	182	8	459	3
712131	1.0	35	82.3	< 0.3	52	21	109	< 3
712132	2.4	8	81.7	< 0.3	63	16	150	< 3
712133	1.9	3	86.3	< 0.3	72	14	178	< 3
712134	2.7	3	47.8	< 0.3	132	17	334	< 3
712135	0.7	< 2	< 0.5	< 0.3	1	4	13	< 3
712136	1.4	< 2	16.9	< 0.3	48	8	112	< 3
712137	2.8	4	26.2	< 0.3	91	20	213	< 3
712138	0.8	6	88.9	< 0.3	23	21	53	< 3
712139	0.8	7	120	< 0.3	18	22	34	< 3
712140	2.4	77	16.7	< 0.3	44	160	93	4
712141	0.8	7	110	< 0.3	16	18	41	< 3
712142	1.1	2	76.5	< 0.3	74	7	160	< 3

Analyte Symbol	Yb	Zn	Zr	Ag	Co	Cu	Ni	Pb
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	2	0.5	0.3	1	1	1	3
Method Code	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
712143	2.4	< 2	38.0	< 0.3	88	4	228	< 3
712144	2.4	4	27.5	< 0.3	86	1	222	< 3
712145	1.1	3	79.8	0.3	206	7	396	< 3
712146	2.1	7	24.7	< 0.3	184	12	420	< 3
712147	2.0	4	39.1	< 0.3	120	9	242	< 3
712148	1.0	5	99.6	< 0.3	56	13	126	< 3
712149	1.3	4	93.8	< 0.3	113	8	181	< 3
712150	0.5	26	23.0	< 0.3	< 1	< 1	3	< 3
709501	1.5	4	115	< 0.3	38	9	71	< 3
709502	1.1	3	98.1	< 0.3	28	4	79	< 3
709503	1.5	9	99.4	< 0.3	31	10	104	< 3
709504	1.5	6	80.7	< 0.3	70	8	160	< 3
709505	1.3	10	107	0.3	53	13	135	< 3
709506	1.4	20	143	< 0.3	25	42	95	< 3
709507	2.2	8	163	0.3	26	9	103	< 3
709508	1.0	5	42.7	< 0.3	39	11	98	< 3
709509	1.0	6	90.6	< 0.3	21	17	79	< 3
709510	2.1	263	134	0.3	29	10	81	< 3
709511	0.7	57	35.1	< 0.3	177	40	312	7
709512	0.5	41	35.2	< 0.3	190	43	349	6
709513	2.0	46	77.6	< 0.3	45	30	113	< 3
709514	1.0	151	71.6	< 0.3	22	31	77	< 3
709515	1.5	145	112	< 0.3	8	57	49	< 3
709516	1.2	156	113	< 0.3	29	51	115	< 3
709517	2.5	13	68.2	< 0.3	174	7	406	< 3
709518	1.1	22	94.7	< 0.3	139	4	287	< 3
709519	1.0	8	84.5	< 0.3	53	9	119	< 3
709520	1.2	6	108	< 0.3	59	17	159	< 3
709521	1.4	6	88.6	< 0.3	182	12	381	< 3
709522	1.7	5	157	< 0.3	19	10	52	< 3
709523	1.4	9	138	< 0.3	20	5	31	< 3
709524	1.8	3	111	< 0.3	82	8	226	< 3
709525	2.1	26	80.4	< 0.3	161	12	365	< 3
709526	1.8	12	64.6	< 0.3	153	6	353	< 3
709527	1.2	5	74.2	< 0.3	80	11	183	< 3
709528	1.5	3	48.7	< 0.3	23	13	58	< 3
709529	1.3	7	132	< 0.3	26	10	81	< 3
709530	1.5	5	134	< 0.3	45	13	91	< 3
709531	1.8	8	91.4	< 0.3	109	10	271	< 3
709532	3.0	3	46.6	< 0.3	220	8	527	3
709533	0.8	131	103	0.4	21	32	54	5
709534	0.8	100	107	0.4	14	14	41	4

Analyte Symbol	Yb	Zn	Zr	Ag	Co	Cu	Ni	Pb
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	2	0.5	0.3	1	1	1	3
Method Code	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
709535	0.8	30	95.3	0.3	16	15	38	< 3
709536	1.6	7	198	0.4	13	13	33	< 3
709537	1.7	14	195	0.4	15	22	32	< 3
709538	3.1	4	52.9	< 0.3	196	43	469	7
709539	3.2	6	28.5	< 0.3	214	13	550	< 3
709540	2.3	77	24.1	< 0.3	44	160	93	< 3
709541	4.1	16	29.0	< 0.3	391	29	908	7
709542	2.0	7	90.0	0.4	295	65	592	5
709543	1.4	9	142	< 0.3	9	13	32	< 3
709544	0.3	< 2	0.8	< 0.3	16	11	29	< 3
709545	2.0	83	95.0	< 0.3	137	62	322	4
709546	3.4	14	47.3	< 0.3	274	18	604	5
709547	2.9	12	42.0	< 0.3	175	17	437	4
709548	1.2	213	107	< 0.3	11	71	76	8
709549	0.6	26	23.9	< 0.3	< 1	< 1	1	3

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5
Method Code	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP
GXR-4 Meas	3.46	6.86	105	130	2.03	20.1	1.04	0.19	117	14.7	49	2.57	6600	3.00	17.6		1.3	0.207	4.09	55.3	12.5	1.68	150
GXR-4 Cert	4.00	7.20	98.0	1640	1.90	19.0	1.01	0.860	102	14.6	64.0	2.80	6520	3.09	20.0		6.30	0.270	4.01	64.5	11.1	1.66	155
GXR-4 Meas		6.86		130			1.04				49			3.00					4.09			1.68	150
GXR-4 Cert		7.20		1640			1.01				64.0			3.09					4.01			1.66	155
SDC-1 Meas		8.59	< 0.2	690	2.87		1.12		88.9	17.0	47	3.53	29.7	4.95	13.6		0.9		2.18	35.2	36.2	1.08	944
SDC-1 Cert		8.34	0.220	630	3.00		1.00		93.00	18.0	64.00	4.00	30.000	4.82	21.00		8.30		2.72	42.00	34.0	1.02	880.00
SDC-1 Meas		8.59		690			1.12				47			4.95					2.18			1.08	944
SDC-1 Cert		8.34		630			1.00				64.00			4.82					2.72			1.02	880.00
GXR-6 Meas	0.28	12.8	243	1300	1.15	0.17	0.17	< 0.02	36.0	12.9	57	4.02	70.2	5.52	14.7		2.0	0.057	1.39	12.1	34.9	0.61	1050
GXR-6 Cert	1.30	17.7	330	1300	1.40	0.290	0.180	1.00	36.0	13.8	96.0	4.20	66.0	5.58	35.0		4.30	0.260	1.87	13.9	32.0	0.609	1010
GXR-6 Meas		12.8		1300			0.17				57			5.52					1.39			0.61	1050
GXR-6 Cert		17.7		1300			0.180				96.0			5.58					1.87			0.609	1010
OREAS 97 (4 Acid) Meas	18.4					39.9				59.5			> 10000										
OREAS 97 (4 Acid) Cert	19.6					40.1				62.9			63100.00										
OREAS 97 (4 Acid) Meas																							
OREAS 97 (4 Acid) Cert																							
OREAS 98 (4 Acid) Meas	42.8					93.4				119			> 10000										
OREAS 98 (4 Acid) Cert	45.1					97.2				121			148000.0										
OREAS 98 (4 Acid) Meas																							
OREAS 98 (4 Acid) Cert																							
DNC-1a Meas				110			7.98			52.4	131		91.9	7.02	12.0					3.3	4.8		
DNC-1a Cert				118			8.21			57	270		100	6.97	15					3.6	5.2		
DNC-1a Meas				110			7.98				131			7.02									
DNC-1a Cert				118			8.21				270			6.97									
SBC-1 Meas			23.1	540	3.36	0.63		0.31	108	21.7	102	7.66	30.1		20.9		3.4			44.9	166		
SBC-1 Cert			25.7	788.0	3.20	0.70		0.40	108.0	22.7	109	8.2	31.0		27.0		3.7			52.5	163		
SBC-1 Meas				540							102												
SBC-1 Cert				788.0							109												
OREAS 45d (4-Acid) Meas		8.29	10.0	180	0.72	0.33	0.19		37.4	29.9	546	3.76	385	14.6	20.3		3.1	0.090	0.42	15.8	22.6	0.24	483
OREAS 45d (4-Acid) Cert		8.150	13.8	183.0	0.79	0.31	0.185		37.20	29.50	549	3.910	371	14.5	21.20		3.830	0.096	0.412	16.9	21.5	0.245	490.000
OREAS 45d (4-Acid) Meas		8.29		180			0.19				546			14.6					0.42			0.24	483
OREAS 45d (4-Acid) Cert		8.150		183.0			0.185				549			14.5					0.412			0.245	490.000
OREAS 96 (4	10.4					26.3				46.0			> 10000										

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5
Method Code	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP
Acid) Meas																							
OREAS 96 (4 Acid) Cert	11.5					26.3				49.9			39300										
OREAS 96 (4 Acid) Meas																							
OREAS 96 (4 Acid) Cert																							
712118 Orig	0.01	0.10	86.7	10	0.16	0.19	16.9	< 0.02	38.8	82.3	151	0.14	12.8	5.09	0.33	< 0.05	< 0.1	0.029	0.04	13.2	3.6	9.36	697
712118 Dup	0.06	0.09	81.0	10	0.25	0.17	16.7	< 0.02	40.4	78.8	147	0.12	12.1	5.11	0.28	< 0.05	< 0.1	0.037	0.04	13.7	3.4	9.39	700
712123 Orig	0.04	6.89	9.1	170	2.27	0.04	0.20	< 0.02	62.2	11.4	196	0.93	17.5	1.35	14.5	0.10	4.5	0.019	1.11	26.8	8.8	1.07	49
712123 Dup	0.02	6.73	10.8	170	2.36	0.05	0.20	< 0.02	69.2	13.3	191	0.91	22.0	1.36	16.4	0.17	4.8	0.009	1.16	30.9	9.4	1.07	50
712150 Orig	< 0.01	10.1	0.9	20	0.75	< 0.01	0.26	< 0.02	2.08	0.4	5	0.71	0.6	0.87	24.2	< 0.05	0.5	< 0.005	2.28	0.9	29.0	0.02	249
712150 Dup	< 0.01	12.0	1.0	30	0.77	< 0.01	0.28	< 0.02	3.73	0.4	3	0.76	0.4	0.84	25.3	< 0.05	0.5	< 0.005	3.16	1.5	30.5	0.06	146
709501 Orig	0.04	6.61	16.3	30	1.25	0.08	2.44	< 0.02	64.3	39.1	249	0.13	9.5	1.54	15.3	< 0.05	3.2	< 0.005	0.39	26.8	2.8	1.23	214
709501 Split PREP DUP	0.05	6.49	16.5	30	1.08	0.08	2.50	< 0.02	66.6	40.2	253	0.15	12.4	1.56	15.6	< 0.05	3.3	0.008	0.39	27.6	2.8	1.26	220
709501 Orig	0.04	6.62	16.6	30	1.25	0.09	2.43	< 0.02	66.7	39.9	231	0.12	9.7	1.53	15.3	< 0.05	3.3	< 0.005	0.39	27.8	2.8	1.22	212
709501 Dup	0.04	6.59	16.0	30	1.25	0.08	2.45	< 0.02	61.9	38.4	267	0.14	9.3	1.55	15.3	< 0.05	3.1	0.010	0.39	25.8	2.8	1.24	216
709528 Orig	0.03	2.65	27.7	20	0.47	0.09	3.75	< 0.02	88.8	22.5	290	< 0.05	13.6	2.02	4.59	< 0.05	1.1	< 0.005	0.14	39.6	0.9	1.86	217
709528 Dup	0.02	2.63	27.9	20	0.46	0.09	3.73	< 0.02	90.5	22.2	232	0.05	11.2	1.98	4.71	< 0.05	1.5	< 0.005	0.14	40.8	0.9	1.86	213
709539 Orig	0.02	2.42	183	10	0.50	0.25	4.57	< 0.02	61.0	209	118	< 0.05	11.8	6.64	5.62	< 0.05	0.6	0.009	0.25	23.3	1.3	2.21	159
709539 Dup	0.03	2.42	170	10	0.48	0.25	4.58	< 0.02	56.1	192	105	< 0.05	12.8	6.65	5.29	< 0.05	0.6	< 0.005	0.25	21.1	1.2	2.23	156
709548 Orig	0.10	7.24	2.5	70	2.55	0.04	1.23	0.54	53.4	10.7	356	1.09	70.9	2.45	17.6	< 0.05	3.0	0.020	1.10	23.9	6.5	1.59	164
709548 Split PREP DUP	0.08	7.56	1.8	70	2.65	0.04	1.28	0.56	55.2	12.0	263	1.21	76.8	2.49	19.0	< 0.05	3.2	0.017	1.03	24.5	6.9	1.62	150
Method Blank	< 0.01	0.01	0.3	< 10	< 0.05	< 0.01	< 0.01	< 0.02	< 0.01	< 0.1		< 0.05	0.4	< 0.01	< 0.05	< 0.05	< 0.1	< 0.005	< 0.01	< 0.5	< 0.2	< 0.01	< 5
Method Blank	< 0.01	< 0.01	0.2	< 10	< 0.05	< 0.01	< 0.01	< 0.02	< 0.01	< 0.1		< 0.05	< 0.2	< 0.01	< 0.05	< 0.05	< 0.1	< 0.005	< 0.01	< 0.5	< 0.2	< 0.01	
Method Blank		< 0.01		< 10			< 0.01							< 0.01					< 0.01			< 0.01	
Method Blank		0.01		< 10			< 0.01							< 0.01					< 0.01			< 0.01	< 5
Method Blank		< 0.01		< 10			< 0.01							< 0.01					< 0.01			< 0.01	< 5
Method Blank		< 0.01		< 10			< 0.01							< 0.01					< 0.01			< 0.01	
Method Blank		< 0.01		< 10			< 0.01							< 0.01					< 0.01			< 0.01	

Analyte Symbol	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.05	0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1	0.1	0.1
Method Code	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS
GXR-4 Meas	321	0.51	8.9	41.3	1250	52.2	127		1.71	4.16	7.1	6	7.5	199	0.57	0.88	21.1	0.249	4.14	6.1	88	40.3	12.9
GXR-4 Cert	310	0.564	10.0	42.0	1200	52.0	160		1.77	4.80	7.70	5.60	5.60	221	0.790	0.970	22.5	0.29	3.20	6.20	87.0	30.8	14.0
GXR-4 Meas		0.51			1250				1.71									0.249			88		
GXR-4 Cert		0.564			1200				1.77									0.29			87.0		
SDC-1 Meas		1.63	0.3	30.8	590	24.1	77.8			< 0.05	13.6		0.6	152	< 0.05		11.4	0.152	0.73	2.6	43	< 0.1	
SDC-1 Cert		1.52	21.00	38.0	690	25.00	127.00			0.54	17.00		3.00	180.00	1.20		12.00	0.606	0.70	3.10	102.00	0.80	
SDC-1 Meas		1.63			590													0.152			43		
SDC-1 Cert		1.52			690													0.606			102.00		
GXR-6 Meas	0.59	0.10	< 0.1	23.1	340	103	50.2		0.02	0.31	25.0	< 1	0.7	33.1	< 0.05	< 0.05	5.3		2.81	1.5	129	< 0.1	11.2
GXR-6 Cert	2.40	0.104	7.50	27.0	350	101	90.0		0.0160	3.60	27.6	0.940	1.70	35.0	0.485	0.0180	5.30		2.20	1.54	186	1.90	14.0
GXR-6 Meas		0.10			340				0.02												129		
GXR-6 Cert		0.104			350				0.0160												186		
OREAS 97 (4 Acid) Meas						144			7.16	5.02		77	94.0										
OREAS 97 (4 Acid) Cert						147			6.07	9.23		71.4	95.7										
OREAS 97 (4 Acid) Meas									7.16														
OREAS 97 (4 Acid) Cert									6.07														
OREAS 98 (4 Acid) Meas						334			> 10.0	7.57		185	202										
OREAS 98 (4 Acid) Cert						345			15.5	20.1		158	206										
OREAS 98 (4 Acid) Meas									> 10.0														
OREAS 98 (4 Acid) Cert									15.5														
DNC-1a Meas		1.51	1.4	249		5.9	2.8			0.69	28.2			125				0.279			151		14.1
DNC-1a Cert		1.40	3	247		6.3	5			0.96	31			144				0.29			148		18.0
DNC-1a Meas		1.51																0.279			151		
DNC-1a Cert		1.40																0.29			148		
SBC-1 Meas	1.91		14.6	80.1		35.9	113			0.91	19.1		3.5	161	1.07		15.5	0.499	1.07	5.8	228	1.7	28.4
SBC-1 Cert	2.40		15.3	82.8		35.0	147			1.01	20.0		3.3	178.0	1.10		15.8	0.51	0.89	5.76	220.0	1.60	36.5
SBC-1 Meas																		0.499			228		
SBC-1 Cert																		0.51			220.0		
OREAS 45d (4-Acid) Meas	0.71	0.10	1.9	238	370	22.1	36.2		0.05	0.07	50.4		0.8	27.6	< 0.05		15.6	0.391	0.26	2.9	173	0.2	10.4
OREAS 45d (4-Acid) Cert	2.500	0.101	14.50	231.0	420.000	21.8	42.1		0.049	0.82	49.30		2.78	31.30	1.02		14.5	0.773	0.27	2.63	235.0	1.62	9.53
OREAS 45d (4-Acid) Meas		0.10			370				0.05									0.391			173		
OREAS 45d (4-Acid) Cert		0.101			420.000				0.049									0.773			235.0		
OREAS 96 (4						97.0			4.51	3.02		44	61.5										

Analyte Symbol	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.05	0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1	0.1	0.1
Method Code	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS
Acid) Meas																							
OREAS 96 (4 Acid) Cert						101			4.19	5.09		40.7	65.6										
OREAS 96 (4 Acid) Meas									4.51														
OREAS 96 (4 Acid) Cert									4.19														
712118 Orig	< 0.05	0.05	0.1	246	280	3.2	1.4	< 0.002	2.26	0.28	115	3	1.9	113	< 0.05	0.12	0.5	< 0.005	< 0.02	< 0.1	101	0.8	72.6
712118 Dup	0.05	0.05	0.2	233	280	3.3	1.4	< 0.002	2.06	0.28	110	3	1.6	103	< 0.05	0.16	0.7	< 0.005	< 0.02	< 0.1	101	0.6	69.3
712123 Orig	1.11	4.10	6.8	23.5	360	2.5	28.2	< 0.002	0.15	0.12	6.8	< 1	2.7	36.9	0.19	< 0.05	12.0	0.223	0.06	4.0	60	2.3	8.9
712123 Dup	0.56	4.10	2.5	26.0	350	2.7	33.7	< 0.002	0.15	0.13	7.9	< 1	3.2	38.0	< 0.05	< 0.05	12.7	0.209	0.08	4.3	56	1.2	9.7
712150 Orig	1.03	7.54	0.3	1.0	< 10	3.9	28.7	< 0.002	< 0.01	0.10	< 0.1	< 1	0.7	17.3	< 0.05	< 0.05	< 0.2	< 0.005	0.85	< 0.1	< 1	< 0.1	1.6
712150 Dup	0.12	7.35	0.2	0.6	10	4.6	43.1	< 0.002	< 0.01	0.10	< 0.1	< 1	0.7	31.7	< 0.05	< 0.05	0.3	< 0.005	0.82	0.2	3	< 0.1	2.9
709501 Orig	1.16	4.80	9.1	71.5	520	1.5	5.7	< 0.002	0.63	0.31	13.6	< 1	3.9	33.4	0.50	0.31	8.9	0.262	< 0.02	3.0	89	4.4	14.6
709501 Split PREP DUP	1.57	4.84	9.4	74.8	530	1.6	5.8	< 0.002	0.62	0.27	13.9	< 1	4.6	34.1	0.50	0.25	8.8	0.247	< 0.02	2.9	89	4.1	14.1
709501 Orig	1.18	4.82	8.7	72.0	530	1.5	5.7	< 0.002	0.63	0.33	14.5	< 1	3.9	33.6	0.49	0.30	9.1	0.269	< 0.02	3.0	89	4.7	14.9
709501 Dup	1.14	4.78	9.6	70.9	520	1.4	5.6	< 0.002	0.63	0.29	12.8	< 1	3.9	33.2	0.50	0.32	8.7	0.256	< 0.02	2.9	89	4.2	14.3
709528 Orig	0.55	2.04	4.8	54.7	260	1.4	1.8	< 0.002	0.58	0.18	21.4	< 1	1.8	29.3	0.11	0.11	5.5	0.063	< 0.02	1.0	34	1.6	13.9
709528 Dup	0.56	2.01	5.2	53.8	270	1.5	1.9	< 0.002	0.58	0.18	21.4	< 1	1.5	29.5	0.15	0.09	5.6	0.063	< 0.02	1.1	34	1.7	14.7
709539 Orig	0.79	1.80	3.0	548	1740	2.8	1.8	< 0.002	6.73	0.54	19.2	13	2.9	35.4	0.08	0.42	4.8	0.053	< 0.02	1.4	42	1.9	42.3
709539 Dup	0.98	1.79	2.7	507	1740	2.6	1.7	< 0.002	6.64	0.47	17.2	13	2.7	32.1	< 0.05	0.36	4.4	0.047	< 0.02	1.4	41	1.6	40.0
709548 Orig	0.96	4.61	8.6	73.8	530	11.4	28.8	< 0.002	0.42	0.13	11.6	< 1	0.8	50.2	0.53	0.06	7.8	0.290	0.08	2.5	94	1.0	9.3
709548 Split PREP DUP	1.04	4.60	8.2	80.5	540	12.9	29.0	< 0.002	0.42	0.13	12.4	< 1	0.8	53.5	0.46	0.05	8.5	0.295	0.09	2.6	96	1.0	10.3
Method Blank	0.06	< 0.01	< 0.1	< 0.2	< 10	< 0.5	< 0.1	< 0.002	< 0.01	< 0.05	< 0.1	< 1	< 0.2	< 0.2	< 0.05	< 0.05	< 0.2	< 0.005	0.03	< 0.1	< 1	< 0.1	< 0.1
Method Blank	0.09	< 0.01	< 0.1	< 0.2	< 10	< 0.5	< 0.1	< 0.002	< 0.01	< 0.05	< 0.1	< 1	< 0.2	< 0.2	< 0.05	< 0.05	< 0.2	< 0.005	< 0.02	< 0.1	< 1	< 0.1	< 0.1
Method Blank		< 0.01			< 10				< 0.01									< 0.005			< 1		
Method Blank		< 0.01			< 10				< 0.01									< 0.005			< 1		
Method Blank		< 0.01			< 10				< 0.01									< 0.005			< 1		
Method Blank		< 0.01			< 10				< 0.01									< 0.005			< 1		
Method Blank		< 0.01			< 10				< 0.01									< 0.005			< 1		

Analyte Symbol	Yb	Zn	Zr	Ag	Co	Cu	Ni	Pb
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	2	0.5	0.3	1	1	1	3
Method Code	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-4 Meas	1.1	72	40.0	3.4	14	6430	43	49
GXR-4 Cert	1.60	73.0	186	4.0	14.6	6520	42.0	52.0
GXR-4 Meas		72						
GXR-4 Cert		73.0						
SDC-1 Meas	3.4	108	26.8		19	34	38	24
SDC-1 Cert	4.00	103.00	290.00		18.0	30.000	38.0	25.00
SDC-1 Meas		108						
SDC-1 Cert		103.00						
GXR-6 Meas	1.8	136	67.0	0.4	14	70	26	100
GXR-6 Cert	2.40	118	110	1.30	13.8	66.0	27.0	101
GXR-6 Meas		136						
GXR-6 Cert		118						
OREAS 97 (4 Acid) Meas		625		19.8	64	> 10000		141
OREAS 97 (4 Acid) Cert		646		19.6	62.9	63100.00		147
OREAS 97 (4 Acid) Meas		625						
OREAS 97 (4 Acid) Cert		646						
OREAS 98 (4 Acid) Meas		1290		43.3	119	> 10000		320
OREAS 98 (4 Acid) Cert		1360		45.1	121	148000.0		345
OREAS 98 (4 Acid) Meas		1290						
OREAS 98 (4 Acid) Cert		1360						
DNC-1a Meas	1.9	61	31.6		57	104	262	< 3
DNC-1a Cert	2.0	70	38.0		57	100	247	6.3
DNC-1a Meas		61						
DNC-1a Cert		70						
SBC-1 Meas	3.4	191	107		23	32	88	31
SBC-1 Cert	3.64	186	134.0		22.7	31.0	83	35.0
SBC-1 Meas		191						
SBC-1 Cert		186						
OREAS 45d (4-Acid) Meas	1.6	46	115		31	386	239	25
OREAS 45d (4-Acid) Cert	1.33	45.7	141		29.50	371	231.0	21.8
OREAS 45d (4-Acid) Meas		46						
OREAS 45d (4-Acid) Cert		45.7						
OREAS 96 (4		447		11.7	51	> 10000		98

Analyte Symbol	Yb	Zn	Zr	Ag	Co	Cu	Ni	Pb
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	2	0.5	0.3	1	1	1	3
Method Code	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Acid) Meas								
OREAS 96 (4 Acid) Cert		457		11.5	49.9	39300		101
OREAS 96 (4 Acid) Meas		447						
OREAS 96 (4 Acid) Cert		457						
712118 Orig	9.3	14	1.9	< 0.3	78	11	221	< 3
712118 Dup	9.0	12	1.8	< 0.3	77	11	223	< 3
712123 Orig	1.3	4	153	0.3	13	20	28	< 3
712123 Dup	1.4	4	160	0.4	13	22	27	< 3
712150 Orig	0.4	27	23.4	< 0.3	< 1	< 1	3	< 3
712150 Dup	0.6	26	22.6	< 0.3	< 1	< 1	3	< 3
709501 Orig	1.5	4	115	< 0.3	38	9	71	< 3
709501 Split PREP DUP	1.4	4	112	0.3	37	10	71	< 3
709501 Orig	1.5	4	118	< 0.3	37	9	71	< 3
709501 Dup	1.4	3	113	< 0.3	38	9	70	< 3
709528 Orig	1.5	3	42.9	< 0.3	23	14	57	< 3
709528 Dup	1.6	2	54.5	< 0.3	22	11	58	< 3
709539 Orig	3.3	6	32.1	< 0.3	214	12	549	< 3
709539 Dup	3.1	7	24.9	< 0.3	214	14	551	< 3
709548 Orig	1.2	213	107	< 0.3	11	71	76	8
709548 Split PREP DUP	1.3	205	111	0.3	11	72	77	8
Method Blank	< 0.1	< 2	< 0.5					
Method Blank	< 0.1	< 2	< 0.5					
Method Blank		< 2						
Method Blank		< 2		< 0.3	< 1	< 1	< 1	< 3
Method Blank		< 2		< 0.3	< 1	< 1	< 1	< 3
Method Blank		< 2		< 0.3	< 1	< 1	< 1	< 3
Method Blank		< 2		< 0.3	< 1	10	< 1	< 3