

Appendix E: 2014 Assay Certificates and Results



Date Submitted: 11-Jul-14
Invoice No.: A14-04675
Invoice Date: 26-Jul-14
Your Reference: BENNEWEIS

Trelawney Mining and Exploration
130 King Street West
Suite 2810 - PO Box 182
Toronto ON M5X 1A6
Canada

ATTN: Alan Smith

CERTIFICATE OF ANALYSIS

240 Rock samples were submitted for analysis.

The following analytical package was requested:

Code 1A2 Au - Fire Assay AA
Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A14-04675**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Emmanuel Esemé". The signature is written in a cursive, somewhat stylized font.

Emmanuel Esemé , Ph.D.
Quality Control

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Results

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Analysis Method	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
161501																							
161502	7.5	1.64	3.08	6.17	0.47	6.33	0.2	270	79.9	1640	10.9	3.5	< 10	68.9	3.7	0.7	1.2	0.10	0.45	52.6	1.21	0.06	0.1
161503																							
161504																							
161505																							
161506	11.1	0.24	1.67	5.39	0.82	1.28	0.1	35	22.6	861	2.84	5.6	< 10	11.9	2.8	1.4	0.9	0.34	0.67	4.6	0.94	0.04	0.2
161507																							
161508																							
161509																							
161510																							
161511																							
161512																							
161513																							
161514																							
161515																							
161516	9.4	2.87	1.10	6.93	0.73	3.33	< 0.1	38	34.5	644	5.23	1.2	< 10	22.7	2.1	1.7	0.7	0.06	0.40	17.5	1.05	0.17	< 0.1
161517	7.9	2.62	0.88	4.93	0.57	2.00	< 0.1	51	34.8	531	4.63	1.2	< 10	20.1	1.6	1.3	0.5	0.07	0.28	15.1	0.67	0.33	0.1
161518																							
161519	7.1	1.79	2.51	4.65	0.50	5.63	0.2	301	85.9	1530	10.0	3.1	< 10	58.1	2.7	0.7	0.9	0.26	0.47	48.2	0.90	0.10	0.4
161520																							
161521																							
161522	8.5	1.95	2.65	5.86	0.46	5.84	0.3	202	50.3	1680	11.9	2.3	< 10	56.5	4.9	0.9	1.6	0.13	0.75	50.9	1.64	0.10	0.2
161523	21.7	> 3.00	3.61	7.26	0.13	0.56	< 0.1	76	61.5	534	5.16	2.5	< 10	56.5	1.8	2.0	0.7	0.08	0.23	26.0	1.34	0.02	0.3
161524																							
161525	10.1	1.84	3.00	6.31	0.58	6.37	0.2	177	55.8	1870	13.1	0.9	< 10	68.7	5.3	1.1	1.8	0.09	0.75	52.1	1.82	0.04	0.6
161526																							
161527																							
161528																							
161529	8.8	1.71	2.95	6.19	0.55	6.27	0.2	232	48.9	1840	13.0	1.3	< 10	65.1	4.3	0.9	1.5	0.18	0.87	57.0	1.47	0.09	0.4
161530																							
161531																							
161532																							
161533	26.4	0.34	2.53	5.99	1.13	0.11	< 0.1	20	11.9	277	2.66	5.0	< 10	4.1	2.9	1.9	0.9	0.32	0.62	5.4	0.32	0.07	< 0.1
161534	11.0	2.61	3.93	7.59	0.04	2.79	0.1	134	124	1170	9.79	0.3	< 10	102	3.0	1.1	1.1	0.18	0.07	48.2	0.95	0.53	< 0.1
161535																							
161536																							
161537	6.1	> 3.00	0.15	6.25	0.66	0.56	< 0.1	7	15.9	149	1.24	3.3	< 10	3.1	2.7	1.9	0.9	0.36	0.27	1.7	0.27	0.42	0.4
161538																							
161539																							
161540	15.7	0.60	2.54	6.41	0.71	0.05	< 0.1	38	31.0	339	2.96	4.7	< 10	22.7	1.6	1.6	0.5	0.27	0.43	7.5	0.54	0.44	0.1
161541																							
161542																							
161543	1.2	0.14	0.10	0.34	0.03	0.06	< 0.1	2	68.4	150	1.59	0.2	< 10	5.0	< 0.1	0.2	< 0.1	0.06	0.06	0.6	< 0.05	0.06	< 0.1
161544																							
161545	6.1	> 3.00	0.76	7.63	0.51	2.05	< 0.1	6	15.4	411	4.66	2.1	20	3.4	2.8	1.6	1.0	0.10	0.27	4.1	1.75	0.56	< 0.1
161546																							
161547																							
161548																							
161549	16.8	2.69	2.56	4.41	0.27	0.23	< 0.1	8	19.7	553	6.47	2.7	< 10	2.4	1.3	0.6	0.4	0.29	0.13	12.0	0.16	0.07	< 0.1

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Analysis Method	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
161550	37.3	0.26	3.34	5.50	0.22	3.39	0.2	240	66.8	1270	11.6	0.9	< 10	45.2	3.9	1.9	1.4	0.24	1.18	40.6	1.24	1.91	< 0.1
161551																							
161552																							
161553																							
161554																							
161555																							
161556																							
161557																							
161558																							
161559	36.6	0.69	3.36	8.90	0.86	0.17	0.1	4	9.6	673	6.04	12.0	< 10	1.8	5.0	2.1	1.6	0.57	0.92	6.8	1.36	0.07	< 0.1
161560																							
161561	9.3	2.09	2.84	6.19	0.02	5.89	0.4	176	37.2	2030	9.81	1.2	< 10	46.6	3.3	0.7	1.1	0.30	0.07	43.5	1.12	0.19	< 0.1
161562																							
161563	9.5	2.79	1.69	5.59	0.28	0.36	0.1	16	20.0	723	4.87	7.3	< 10	2.5	4.0	0.8	1.3	0.49	0.10	10.2	1.30	0.12	< 0.1
161564	9.7	1.60	3.19	6.61	0.07	5.77	0.2	277	43.2	1850	11.7	1.3	< 10	60.2	2.7	0.6	0.9	0.45	0.10	53.7	0.95	0.22	0.2
161565																							
161566	15.1	1.83	0.85	5.51	0.74	0.47	0.2	3	24.6	345	2.62	11.1	< 10	2.0	6.1	1.8	2.0	0.62	0.46	1.0	2.13	0.03	< 0.1
161567																							
161568																							
161569	14.1	1.05	2.24	5.93	0.07	3.81	0.3	117	24.8	1940	12.4	1.6	< 10	28.2	3.7	0.7	1.3	0.17	0.22	38.6	1.68	0.15	< 0.1
161570																							
161571	15.0	0.09	2.00	6.16	0.77	0.24	< 0.1	8	11.2	303	3.54	7.2	< 10	5.6	3.0	1.7	0.9	0.27	0.69	9.2	1.25	0.05	0.5
161572	21.0	1.21	3.52	5.41	0.05	0.22	< 0.1	84	14.7	1290	8.51	1.8	< 10	1.1	2.0	0.9	0.6	0.12	0.06	25.4	0.55	0.09	0.3
161573	2.3	> 3.00	0.35	4.70	0.19	1.48	0.7	18	56.6	530	1.83	4.4	< 10	2.5	2.2	1.4	0.7	0.65	0.09	9.7	0.47	0.23	0.2
161574																							
161575																							
161576																							
161577																							
161578																							
161579	25.6	2.16	3.59	7.17	0.38	3.81	0.1	225	240	999	8.49	0.9	< 10	107	1.8	0.8	0.6	0.19	0.31	38.6	0.52	0.09	< 0.1
161580																							
161581																							
161582																							
161583																							
161584																							
161585																							
161586																							
161587																							
161588	15.6	2.16	1.38	5.67	0.63	0.21	0.1	5	24.0	292	2.27	6.8	< 10	1.4	3.4	1.3	1.1	0.27	0.38	3.6	1.66	0.04	< 0.1
161589	19.5	1.29	2.72	7.08	0.25	3.90	< 0.1	70	61.3	889	7.11	1.1	< 10	47.0	2.6	1.2	0.8	0.10	0.13	19.3	1.29	0.43	< 0.1
161601																							
161602																							
161603																							
161604																							
161605																							
161606	18.3	1.51	1.88	5.65	0.56	0.11	< 0.1	12	13.9	266	2.91	6.0	< 10	1.8	2.9	1.5	0.9	0.31	0.26	4.8	0.96	0.06	< 0.1
161607	1.0	0.03	0.05	0.17	0.03	0.04	< 0.1	2	59.7	127	1.21	0.3	< 10	3.3	0.1	0.2	< 0.1	0.08	0.06	0.7	0.11	0.06	< 0.1
161608																							
161609																							
161610																							

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Analysis Method	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
161611																							
161612																							
161613	18.2	0.96	3.07	5.70	0.80	2.24	0.1	88	14.5	1560	6.18	2.9	< 10	12.5	1.6	1.1	0.6	0.11	0.59	21.7	1.12	0.05	0.2
161614																							
161615																							
161616																							
161617																							
161618																							
161619																							
161620	15.0	> 3.00	1.27	8.37	0.89	1.82	0.9	45	25.8	953	6.33	0.7	< 10	18.9	2.9	1.4	1.0	0.22	0.61	14.2	1.49	11.4	< 0.1
161621																							
161622																							
161623	13.2	2.90	2.74	8.08	0.08	6.71	0.1	116	163	1220	7.34	0.2	< 10	171	2.2	0.5	0.8	0.07	0.43	50.7	0.65	0.15	0.4
161624																							
161625	19.4	0.07	3.43	6.96	1.21	3.51	0.2	204	132	1550	7.82	0.9	< 10	124	1.9	1.4	0.6	0.18	1.11	53.3	0.68	0.64	0.6
161626																							
161627																							
161628	5.1	> 3.00	0.29	6.21	0.76	1.24	< 0.1	7	47.8	555	4.30	2.2	< 10	3.3	1.5	1.4	0.6	0.20	0.22	5.4	1.42	0.08	0.1
161629																							
161630																							
161631																							
161632																							
161633																							
161634																							
161635	14.4	> 3.00	1.53	7.11	0.75	3.67	< 0.1	94	27.3	745	4.50	3.0	< 10	47.1	1.5	1.5	0.5	0.14	0.21	16.1	0.67	0.11	< 0.1
161636																							
161637																							
161638	8.0	> 3.00	0.79	6.18	0.32	2.25	< 0.1	46	31.8	608	4.79	4.7	< 10	12.9	4.1	2.0	1.4	0.20	0.73	13.9	1.26	0.34	< 0.1
161639																							
161640																							
161641																							
161642																							
161643	17.6	> 3.00	2.37	7.79	0.69	2.03	< 0.1	17	18.3	625	4.84	0.9	< 10	18.2	2.3	1.6	0.8	0.06	0.43	12.8	1.31	0.19	< 0.1
161644																							
161645																							
161646																							
161647																							
161648																							
161649																							
161650	6.5	2.55	1.88	9.32	0.05	5.93	< 0.1	229	15.7	742	8.24	0.7	< 10	49.3	1.6	0.7	0.6	0.05	0.44	32.8	1.05	0.24	< 0.1
161651																							
161652																							
161653																							
161654	15.0	2.64	1.09	8.07	0.94	3.45	< 0.1	13	21.1	698	5.45	0.7	< 10	10.9	1.5	2.2	0.6	0.07	0.27	13.7	1.67	0.09	< 0.1
161655	7.7	> 3.00	0.75	7.08	0.79	2.24	< 0.1	40	30.6	361	3.15	1.2	< 10	19.7	2.0	1.6	0.7	0.11	0.25	12.6	0.90	0.19	< 0.1
161656	29.7	2.77	4.53	8.86	0.54	3.09	< 0.1	98	151	802	5.51	0.4	< 10	219	0.8	2.2	0.3	0.15	0.30	37.1	0.58	0.18	< 0.1
161657	17.8	2.48	2.78	5.81	0.04	1.25	< 0.1	320	82.7	1100	9.41	2.0	< 10	53.4	2.2	1.0	0.8	0.19	0.17	55.6	0.86	0.14	0.4
161658																							
161659																							
161660	11.9	> 3.00	1.12	7.19	0.50	2.45	< 0.1	30	24.8	713	6.12	1.0	< 10	16.8	2.3	1.3	0.8	0.07	0.26	19.5	1.37	0.16	0.3

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Analysis Method	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
161661	28.1	1.88	5.38	8.31	0.20	1.38	< 0.1	300	22.7	930	11.0	0.6	< 10	69.2	1.6	2.6	0.6	< 0.05	0.22	48.9	0.58	0.12	< 0.1
161662																							
161663																							
161664																							
161665	12.2	2.45	2.99	6.89	0.10	5.12	< 0.1	193	41.5	1140	9.06	0.4	< 10	55.5	2.1	1.1	0.7	0.06	0.35	33.1	1.08	0.15	< 0.1
161666																							
161667																							
161668	42.9	> 3.00	3.98	8.05	0.33	3.74	< 0.1	88	71.1	649	4.12	3.0	< 10	125	2.9	1.9	1.0	0.14	0.17	18.9	0.84	0.10	< 0.1
161669																							
161670	13.8	> 3.00	1.84	7.58	0.37	1.75	< 0.1	100	26.9	1020	8.15	2.7	< 10	31.5	2.7	2.0	1.0	0.11	0.41	29.0	1.41	0.08	< 0.1
161671	4.2	> 3.00	0.18	6.03	0.92	0.51	< 0.1	6	31.7	182	1.94	5.8	< 10	2.5	2.8	1.7	0.9	0.37	0.25	2.1	0.75	0.07	< 0.1
161672	4.6	1.52	0.33	3.78	0.79	0.35	< 0.1	24	49.3	353	3.28	1.1	< 10	6.1	0.8	1.2	0.3	0.14	0.27	3.9	0.44	0.04	< 0.1
161673																							
161674																							
161675																							
161676	5.8	> 3.00	0.32	6.48	0.93	1.33	0.1	7	32.1	379	3.44	2.7	< 10	3.1	3.5	2.7	1.2	0.09	0.24	5.3	1.22	0.52	< 0.1
161677																							
161678																							
161679	4.2	> 3.00	0.45	6.52	0.27	1.85	0.1	34	24.4	379	3.54	4.2	< 10	6.7	3.2	1.8	1.1	0.19	0.28	7.3	1.00	0.54	0.2
161680	7.6	1.82	1.56	5.42	0.21	5.83	0.1	592	76.8	902	8.97	1.1	< 10	33.2	1.0	1.5	0.3	0.14	0.28	37.6	0.55	0.52	0.4
161681																							
161682																							
161683																							
161684																							
161685																							
161686																							
161687	10.1	> 3.00	1.23	7.89	0.64	3.31	< 0.1	34	31.1	875	5.92	0.8	< 10	20.2	2.4	2.5	0.9	< 0.05	0.38	19.0	1.45	0.39	0.2
161688	13.8	2.43	4.52	7.25	0.13	4.74	0.2	164	161	1460	9.27	0.5	< 10	140	2.7	0.9	0.9	0.09	0.31	46.3	0.87	0.20	< 0.1
161689																							
161690	6.1	> 3.00	0.45	5.78	0.81	0.68	0.1	5	21.2	329	2.28	1.7	< 10	2.3	2.5	1.9	0.9	0.22	0.28	2.6	0.88	5.11	0.2
161691	3.4	> 3.00	0.19	6.21	0.91	0.29	< 0.1	8	35.0	254	2.82	5.7	< 10	2.6	2.4	2.1	0.8	0.29	0.44	2.6	0.63	0.11	0.2
161701	0.6	0.08	0.03	0.14	0.02	0.11	< 0.1	4	134	299	1.39	< 0.1	< 10	5.3	< 0.1	0.3	< 0.1	< 0.05	0.06	0.8	< 0.05	0.05	< 0.1
161702	20.5	> 3.00	3.63	9.65	0.26	3.03	< 0.1	279	85.5	1230	10.1	2.0	< 10	62.9	4.9	1.4	1.7	0.20	0.46	40.6	2.33	0.25	0.4
161703																							
161704																							
161705																							
161706																							
161707																							
161708	18.6	> 3.00	3.50	8.77	0.30	2.09	0.1	183	193	1020	10.7	1.5	< 10	88.3	3.0	1.4	1.0	0.26	0.14	32.1	0.99	0.20	0.7
161709																							
161710	10.7	> 3.00	1.12	8.18	0.56	2.77	0.1	25	35.7	721	4.68	1.2	< 10	17.1	3.4	1.5	1.2	0.09	0.22	13.2	1.39	0.52	0.6

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Analysis Method	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
161711	14.9	> 3.00	1.20	8.03	0.69	3.61	< 0.1	33	35.2	811	5.39	1.1	< 10	21.3	2.6	1.5	0.9	0.09	0.24	17.4	1.50	0.06	0.3
161712																							
161713																							
161714																							
161715	11.5	> 3.00	1.18	5.42	0.48	0.81	< 0.1	53	33.2	355	3.16	1.8	< 10	22.5	0.5	0.9	0.2	0.15	0.16	12.3	0.19	0.03	< 0.1
161716																							
161717																							
161718	5.0	> 3.00	0.46	6.48	0.14	3.65	0.1	61	45.5	533	3.80	3.9	< 10	16.2	5.4	1.1	1.7	0.20	0.14	6.5	1.22	0.20	0.4
161719																							
161720																							
161751	5.5	2.99	0.68	5.32	0.73	0.43	0.1	6	23.9	157	1.37	3.0	< 10	8.4	4.6	1.6	1.4	0.25	0.22	4.3	0.82	0.05	0.2
161752																							
161753																							
161754	12.1	0.14	2.41	6.87	1.46	0.06	< 0.1	122	63.5	266	4.89	3.9	< 10	33.5	2.3	1.9	0.7	0.20	0.69	15.6	0.98	1.17	1.3
161755	12.1	0.12	2.49	6.64	1.48	0.19	< 0.1	116	57.0	246	4.38	3.5	< 10	49.5	2.1	1.5	0.7	0.21	0.61	29.0	1.29	0.93	1.0
161774																							
161776																							
161777																							
161778																							
161779	21.4	1.84	3.98	6.20	0.08	0.34	< 0.1	58	21.4	1100	8.68	1.9	< 10	1.1	1.8	0.9	0.6	0.09	0.21	31.1	1.05	0.06	0.5
161804																							
161805																							
161806	13.0	1.66	5.09	6.72	0.10	6.21	0.2	184	138	1550	9.56	1.1	< 10	233	2.3	0.6	0.8	0.13	0.09	60.2	0.88	0.14	< 0.1
161807																							

Results

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Analysis Method	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
161501																							
161502	124	17.3	< 0.1	21.4	28.0	122	100	0.5	0.20	< 0.1	< 1	< 0.1	0.1	165	10.6	23.1	3.0	12.9	3.3	5.0	0.8	5.7	181
161503																							
161504																							
161505																							
161506	39.0	14.8	0.2	33.7	21.3	28.9	208	9.8	1.25	< 0.1	3	0.3	< 0.1	101	20.2	41.9	5.1	19.4	4.3	5.2	0.7	4.4	2.8
161507																							
161508																							
161509																							
161510																							
161511																							
161512																							
161513																							
161514																							
161515																							
161516	36.0	20.9	0.3	38.9	16.8	277	37	0.3	0.20	< 0.1	< 1	< 0.1	< 0.1	314	8.8	21.9	2.5	10.4	2.6	3.7	0.5	3.6	35.7
161517	42.3	17.4	< 0.1	17.7	11.7	142	33	0.5	0.64	< 0.1	2	< 0.1	< 0.1	159	5.0	11.6	1.4	6.2	1.6	2.3	0.4	2.4	27.7
161518																							
161519	108	16.1	1.1	10.9	17.8	153	95	4.6	0.87	< 0.1	4	0.9	0.1	214	7.6	16.6	2.3	9.7	2.5	3.6	0.6	4.3	167
161520																							
161521																							
161522	140	17.6	< 0.1	22.7	36.2	127	90	0.1	0.12	0.1	< 1	< 0.1	< 0.1	176	13.8	30.6	4.0	17.5	4.5	6.7	1.1	7.5	162
161523	68.8	18.2	0.2	5.4	15.1	82.6	105	0.3	0.09	< 0.1	< 1	< 0.1	< 0.1	37	15.0	30.8	3.6	14.4	3.2	4.3	0.6	3.6	4.4
161524																							
161525	161	19.2	0.4	27.5	43.1	127	41	< 0.1	0.12	0.1	< 1	< 0.1	0.1	189	14.3	32.6	4.4	19.5	5.0	7.5	1.2	8.5	177
161526																							
161527																							
161528																							
161529	151	18.6	0.6	36.6	34.5	118	53	< 0.1	0.20	0.1	< 1	0.1	0.1	180	12.4	27.9	3.7	16.1	4.1	6.1	1.0	6.8	180
161530																							
161531																							
161532																							
161533	76.7	11.9	< 0.1	36.8	19.6	18.7	172	6.9	1.16	< 0.1	6	0.6	< 0.1	1130	6.8	15.2	1.6	5.8	1.3	2.2	0.5	3.7	3.6
161534	137	18.1	0.5	0.9	23.4	90.8	8	0.2	0.06	< 0.1	2	< 0.1	< 0.1	18	3.8	9.3	1.4	6.8	2.3	3.9	0.7	4.8	204
161535																							
161536																							
161537	11.5	15.6	1.0	23.8	21.1	117	99	8.6	10.8	< 0.1	6	0.7	0.2	277	13.5	30.3	3.5	12.9	2.9	3.6	0.6	4.2	84.6
161538																							
161539																							
161540	113	15.8	0.5	28.8	12.5	23.1	165	6.3	2.24	< 0.1	4	0.2	0.1	337	24.9	49.8	5.5	19.9	3.8	3.6	0.4	2.4	13.6
161541																							
161542																							
161543	3.9	1.1	0.5	1.0	0.4	8.0	4	0.4	3.54	< 0.1	1	0.3	< 0.1	15	0.3	0.7	< 0.1	0.3	< 0.1	< 0.1	< 0.1	< 0.1	6.0
161544																							
161545	28.1	21.4	0.1	16.5	20.0	249	71	0.4	0.34	< 0.1	1	< 0.1	< 0.1	272	14.7	28.8	3.5	13.7	3.1	4.4	0.7	4.5	75.2
161546																							
161547																							
161548																							
161549	100	17.5	< 0.1	2.6	6.4	34.0	70	6.6	2.96	< 0.1	5	0.8	< 0.1	100	3.2	11.4	1.1	4.2	1.0	1.3	0.2	1.6	2.2

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Analysis Method	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
161550	126	18.9	2.0	18.9	26.5	170	25	1.0	0.19	0.1	10	< 0.1	< 0.1	49	9.5	21.5	2.9	12.5	3.5	5.2	0.9	6.3	167
161551																							
161552																							
161553																							
161554																							
161555																							
161556																							
161557																							
161558																							
161559	108	29.2	0.4	40.3	32.4	32.7	439	15.8	0.79	0.1	6	0.2	0.1	420	25.0	72.0	6.3	24.0	5.5	7.4	1.2	7.5	43.0
161560																							
161561	172	16.3	< 0.1	0.4	23.5	73.7	45	0.4	0.13	0.2	< 1	0.2	< 0.1	10	5.1	12.5	1.8	9.0	2.7	4.1	0.7	5.0	300
161562																							
161563	111	14.5	0.8	7.9	27.6	44.6	275	10.1	2.34	< 0.1	3	0.5	< 0.1	98	24.3	52.1	6.2	24.0	5.3	6.7	1.0	6.2	52.2
161564																							
161565	131	17.9	1.8	2.9	19.9	147	45	0.4	0.83	< 0.1	< 1	0.2	0.1	15	4.5	10.9	1.6	7.3	2.1	3.4	0.6	4.2	148
161566																							
161567	43.8	20.3	< 0.1	21.4	42.5	45.3	417	16.8	2.44	< 0.1	5	0.1	0.2	437	37.4	81.3	10.0	40.5	9.1	10.7	1.5	9.7	1.9
161568																							
161569	128	21.1	1.1	2.7	28.4	107	52	0.4	0.26	0.1	< 1	< 0.1	0.1	20	11.1	27.0	3.7	16.6	4.5	6.4	1.0	6.5	37.2
161570																							
161571	94.1	16.9	0.2	30.9	20.2	32.8	283	6.4	0.89	< 0.1	4	0.1	0.2	547	24.2	50.2	6.1	23.6	5.2	5.7	0.7	4.4	2.1
161572																							
161573	125	16.1	2.5	1.0	13.5	28.1	63	0.2	0.14	< 0.1	< 1	< 0.1	< 0.1	17	4.0	9.0	1.0	4.3	1.3	1.9	0.4	2.8	25.5
161574																							
161575	37.5	11.7	2.7	4.7	16.3	64.6	85	7.5	2.26	< 0.1	3	0.6	< 0.1	49	6.8	17.3	2.1	8.2	2.2	2.9	0.5	3.4	34.4
161576																							
161577																							
161578																							
161579	98.1	17.7	0.1	18.7	12.3	207	26	2.1	0.55	< 0.1	5	0.4	< 0.1	176	1.7	3.9	0.6	2.8	1.1	1.9	0.4	2.7	2.1
161580																							
161581																							
161582																							
161583																							
161584																							
161585																							
161586																							
161587																							
161588	74.8	16.1	< 0.1	22.0	23.1	47.8	257	3.3	1.26	< 0.1	3	< 0.1	< 0.1	306	26.1	55.2	6.7	26.1	5.7	6.3	0.9	5.2	41.3
161589																							
161601	76.0	20.6	0.4	7.5	18.2	244	33	0.3	0.15	< 0.1	< 1	< 0.1	< 0.1	127	10.6	21.6	2.6	10.7	2.5	3.5	0.6	3.9	33.9
161602																							
161603																							
161604																							
161605																							
161606	52.2	15.7	< 0.1	21.1	19.5	32.7	224	5.4	0.54	< 0.1	4	0.3	0.2	133	27.8	59.9	7.1	27.4	5.6	5.9	0.7	4.5	2.0
161607																							
161608	3.3	0.5	< 0.1	0.9	1.0	6.3	8	0.9	3.77	< 0.1	1	0.3	0.1	6	3.5	8.0	0.9	3.5	0.7	0.6	< 0.1	0.3	3.3
161609																							
161610																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Analysis Method	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
161611																							
161612																							
161613	97.6	15.6	0.6	24.5	12.2	36.4	109	0.3	0.29	< 0.1	2	0.5	< 0.1	104	15.2	33.8	4.3	17.7	4.2	4.6	0.6	3.1	6.0
161614																							
161615																							
161616																							
161617																							
161618																							
161619																							
161620	294	21.6	0.6	35.2	23.3	249	26	0.2	0.21	< 0.1	2	< 0.1	0.1	488	15.1	33.5	4.3	18.3	4.2	5.4	0.8	5.2	133
161621																							
161622																							
161623	82.8	14.8	17.8	3.8	16.7	86.0	4	< 0.1	0.13	< 0.1	< 1	0.1	< 0.1	41	2.3	6.2	1.0	4.8	1.6	2.6	0.5	3.4	94.6
161624																							
161625	69.8	15.3	1.9	29.2	13.7	32.7	37	< 0.1	0.11	< 0.1	< 1	< 0.1	< 0.1	486	6.6	13.1	1.7	7.7	2.2	3.3	0.5	3.0	259
161626																							
161627																							
161628	49.6	16.3	< 0.1	22.3	11.7	130	83	3.1	1.82	< 0.1	2	0.1	0.1	429	14.5	32.2	3.9	15.3	3.4	3.9	0.5	3.0	4.3
161629																							
161630																							
161631																							
161632																							
161633																							
161634																							
161635	79.0	16.5	5.2	22.5	11.3	99.5	117	1.9	0.42	< 0.1	1	< 0.1	< 0.1	396	14.6	27.5	3.1	11.2	2.3	2.7	0.4	2.3	32.3
161636																							
161637																							
161638	49.6	19.3	0.4	26.1	29.6	170	159	5.1	1.22	< 0.1	2	< 0.1	0.1	173	21.8	48.8	5.8	23.3	5.1	6.4	1.0	6.4	23.2
161639																							
161640																							
161641																							
161642																							
161643	104	19.5	0.5	18.6	18.3	188	29	0.2	0.14	< 0.1	< 1	< 0.1	0.1	379	11.6	25.8	3.1	13.1	3.2	4.1	0.6	4.0	35.3
161644																							
161645																							
161646																							
161647																							
161648																							
161649																							
161650	52.3	25.8	0.3	5.1	12.7	260	18	0.2	0.19	< 0.1	< 1	< 0.1	< 0.1	27	8.6	18.0	2.2	8.5	2.0	2.8	0.4	2.7	12.8
161651																							
161652																							
161653																							
161654	54.6	22.0	< 0.1	37.9	11.4	194	25	0.3	0.21	< 0.1	< 1	< 0.1	< 0.1	300	14.3	30.5	3.6	14.5	3.3	4.0	0.5	3.1	112
161655	24.7	18.3	< 0.1	31.2	15.2	176	38	0.5	0.75	< 0.1	1	< 0.1	0.1	264	14.2	28.5	3.5	14.0	3.0	3.8	0.5	3.5	100
161656	70.9	15.5	7.3	25.0	6.1	215	18	1.2	0.43	< 0.1	2	0.2	< 0.1	254	3.5	7.2	0.9	3.7	0.9	1.3	0.2	1.4	138
161657	136	19.3	1.3	0.5	15.0	73.0	66	4.5	0.94	< 0.1	2	0.3	0.1	34	5.9	14.7	1.8	7.4	2.0	2.9	0.5	3.6	52.4
161658																							
161659																							
161660	68.1	21.6	0.7	19.5	18.6	259	37	0.2	0.10	< 0.1	< 1	< 0.1	0.1	289	11.8	24.7	3.2	13.4	3.2	4.1	0.6	4.2	31.2

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Analysis Method	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
161661	167	22.8	< 0.1	8.6	12.0	54.8	14	< 0.1	0.48	< 0.1	5	< 0.1	< 0.1	72	7.4	16.3	1.9	7.4	1.8	2.4	0.4	2.6	11.6
161662																							
161663																							
161664																							
161665	91.9	15.9	< 0.1	5.1	14.8	125	12	< 0.1	0.08	< 0.1	1	< 0.1	< 0.1	65	2.7	6.5	1.0	4.7	1.5	2.5	0.4	3.2	35.9
161666																							
161667																							
161668	42.0	17.6	< 0.1	11.4	22.5	178	114	3.3	0.50	< 0.1	3	< 0.1	0.1	115	14.8	32.4	4.1	16.4	3.7	4.6	0.8	4.8	10.7
161669																							
161670	110	20.5	0.5	18.7	20.3	252	89	1.9	0.46	< 0.1	1	< 0.1	< 0.1	176	20.7	48.2	6.0	22.9	4.6	5.8	0.8	5.2	27.0
161671	13.9	16.4	< 0.1	25.4	19.8	96.7	205	13.4	1.80	< 0.1	3	0.2	< 0.1	450	26.6	50.9	5.1	17.8	3.5	4.6	0.7	4.4	21.0
161672	27.7	11.0	0.6	24.4	6.0	50.3	39	4.4	3.40	< 0.1	2	0.2	< 0.1	346	7.9	16.5	1.9	7.0	1.5	1.6	0.2	1.3	11.5
161673																							
161674																							
161675																							
161676	24.4	18.9	0.4	23.1	29.7	127	99	0.7	1.00	< 0.1	3	< 0.1	0.2	303	20.6	45.1	5.6	22.0	5.0	6.1	0.9	6.0	43.5
161677																							
161678																							
161679	42.5	18.5	0.6	11.5	27.2	134	163	5.0	1.49	< 0.1	2	< 0.1	0.1	95	14.9	32.9	3.9	14.7	3.6	4.7	0.8	5.2	13.6
161680	65.1	21.9	3.8	2.5	6.6	224	29	3.0	1.36	< 0.1	3	0.3	0.1	98	3.7	8.7	1.1	4.6	1.1	1.5	0.2	1.6	39.8
161681																							
161682																							
161683																							
161684																							
161685																							
161686																							
161687	69.8	21.4	0.2	30.6	20.7	185	30	0.5	0.76	< 0.1	< 1	< 0.1	0.2	256	13.3	28.8	3.7	15.3	3.6	4.6	0.7	4.2	10.9
161688	102	16.3	< 0.1	4.1	20.4	170	18	< 0.1	0.09	< 0.1	< 1	< 0.1	0.1	57	3.3	8.6	1.3	6.7	2.1	3.4	0.6	4.1	98.6
161689																							
161690	32.3	15.0	< 0.1	26.6	20.3	59.9	118	4.7	1.84	< 0.1	3	0.2	0.3	235	25.6	50.6	6.1	23.1	5.1	5.4	0.7	4.4	87.5
161691	19.9	17.5	< 0.1	29.2	19.9	66.1	205	9.0	1.60	< 0.1	3	0.1	0.2	419	19.0	42.8	4.7	17.6	3.8	4.4	0.7	4.1	14.4
161701	4.7	0.5	0.3	0.6	0.5	3.8	2	0.2	6.69	< 0.1	< 1	0.5	0.2	9	0.5	1.2	0.1	0.5	0.1	0.1	< 0.1	0.1	3.8
161702	90.6	30.0	1.5	11.9	38.1	159	74	7.0	0.68	0.2	6	0.2	0.4	114	15.0	31.3	3.8	16.1	4.5	6.8	1.1	7.6	96.4
161703																							
161704																							
161705																							
161706																							
161707																							
161708	89.3	24.6	1.7	7.4	24.0	269	55	4.8	1.15	< 0.1	2	0.2	0.3	151	9.1	19.9	2.5	10.4	2.7	3.8	0.7	4.5	6.7
161709																							
161710	60.5	21.0	0.6	17.4	29.0	185	47	0.8	0.36	< 0.1	1	< 0.1	0.3	232	13.4	34.3	4.7	20.0	4.7	5.7	0.9	5.7	26.2

Results

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppb
Detection Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01	5
Analysis Method	TD-MS	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-ICP	TD-ICP	FA-AA
161501																5
161502	0.3	0.5	2.9	0.5	< 0.1	0.2	0.002	0.13	3.5	43	10.7	0.5	0.454	0.051	0.14	8
161503																< 5
161504																< 5
161505																< 5
161506	0.1	0.4	2.6	0.5	0.7	0.6	0.003	0.17	2.7	8	7.1	1.0	0.212	0.025	0.01	< 5
161507																< 5
161508																< 5
161509																< 5
161510																< 5
161511																43
161512																1060
161513																< 5
161514																< 5
161515																< 5
161516	0.1	0.3	1.6	0.3	< 0.1	0.2	0.002	0.27	2.1	13	3.7	0.4	0.259	0.083	0.06	< 5
161517	0.5	0.2	1.2	0.2	< 0.1	0.2	0.004	0.15	2.5	10	2.3	0.2	0.319	0.069	0.05	< 5
161518																< 5
161519	1.3	0.4	2.3	0.4	0.5	0.7	0.005	0.18	4.2	42	3.5	0.5	0.723	0.055	0.13	5
161520																< 5
161521																< 5
161522	0.2	0.7	3.9	0.6	< 0.1	0.1	0.005	0.17	4.0	42	3.4	0.5	0.244	0.072	0.12	< 5
161523	0.2	0.2	1.4	0.2	< 0.1	0.2	0.003	0.07	2.0	21	3.8	0.5	0.193	0.036	< 0.01	< 5
161524																< 5
161525	0.3	0.8	4.3	0.7	< 0.1	< 0.1	0.004	0.20	3.1	43	3.1	0.5	0.213	0.122	0.20	< 5
161526																< 5
161527																5
161528																< 5
161529	0.4	0.6	3.4	0.6	< 0.1	< 0.1	0.005	0.22	12.3	45	3.1	0.5	0.350	0.064	0.17	< 5
161530																< 5
161531																< 5
161532																< 5
161533	< 0.1	0.4	2.5	0.4	0.7	2.1	0.005	0.38	2.1	6	7.6	1.1	0.189	0.022	< 0.01	< 5
161534	0.2	0.5	2.5	0.4	< 0.1	0.1	0.005	< 0.05	5.4	43	1.5	0.1	0.130	0.041	0.23	< 5
161535																< 5
161536																2300
161537	< 0.1	0.4	2.4	0.4	0.8	1.4	0.003	0.13	2.5	3	9.7	1.9	0.0759	0.009	0.07	< 5
161538																< 5
161539																46
161540	0.1	0.3	1.6	0.3	0.6	0.8	0.003	0.52	4.4	8	9.9	1.2	0.187	0.017	0.03	< 5
161541																< 5
161542																33
161543	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.3	0.001	< 0.05	0.7	< 1	0.5	< 0.1	0.0163	0.004	< 0.01	< 5
161544																< 5
161545	0.1	0.4	2.3	0.4	< 0.1	0.2	0.004	0.10	3.8	14	5.5	0.8	0.296	0.075	0.20	< 5
161546																460
161547																< 5
161548																< 5
161549	0.3	0.2	1.2	0.2	0.7	3.1	0.004	0.05	0.8	12	3.5	0.4	0.435	0.078	< 0.01	< 5

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppb
Detection Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01	5
Analysis Method	TD-MS	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-ICP	TD-ICP	FA-AA
161550	0.4	0.6	3.0	0.5	< 0.1	1.4	0.004	0.12	7.3	42	3.1	0.4	0.461	0.048	0.47	5
161551																< 5
161552																< 5
161553																< 5
161554																8
161555																< 5
161556																< 5
161557																< 5
161558																< 5
161559	0.2	0.8	5.0	0.9	1.3	0.7	0.004	0.32	5.1	17	12.0	12.1	0.369	0.036	< 0.01	13
161560																< 5
161561	0.3	0.5	2.7	0.4	< 0.1	0.1	0.003	< 0.05	2.7	42	1.3	0.1	0.300	0.036	0.07	10
161562																2290
161563	0.1	0.6	3.6	0.6	0.7	0.6	0.003	< 0.05	3.9	11	6.6	1.2	0.284	0.032	0.11	< 5
161564	0.5	0.4	2.2	0.4	< 0.1	0.2	0.004	< 0.05	4.7	45	1.4	0.1	0.494	0.028	0.18	6
161565																10
161566	0.2	0.9	5.3	0.9	1.0	0.5	0.002	0.14	4.4	2	8.2	1.8	0.146	0.005	< 0.01	< 5
161567																< 5
161568																< 5
161569	0.2	0.5	2.8	0.5	< 0.1	0.1	0.006	< 0.05	17.4	37	3.6	0.4	0.292	0.123	0.07	< 5
161570																< 5
161571	0.2	0.5	2.9	0.5	0.3	0.6	0.003	0.31	2.6	12	7.6	1.0	0.257	0.029	< 0.01	< 5
161572	0.2	0.3	1.7	0.3	< 0.1	0.2	0.003	< 0.05	8.2	24	2.9	0.4	0.242	0.047	0.15	< 5
161573	0.2	0.3	2.1	0.4	1.3	0.5	0.002	< 0.05	38.5	4	13.9	2.5	0.0721	0.014	0.06	< 5
161574																5
161575																< 5
161576																< 5
161577																< 5
161578																< 5
161579	0.4	0.3	1.4	0.2	0.2	11.2	0.002	0.11	4.4	34	1.8	0.2	0.489	0.024	0.04	< 5
161580																< 5
161581																< 5
161582																< 5
161583																6
161584																< 5
161585																< 5
161586																1050
161587																6
161588	0.1	0.6	3.4	0.6	0.1	0.3	0.004	0.12	4.5	11	5.8	1.1	0.256	0.025	< 0.01	< 5
161589	0.3	0.4	2.3	0.4	< 0.1	0.1	< 0.001	< 0.05	4.8	25	3.7	1.7	0.201	0.041	0.04	< 5
161601																< 5
161602																< 5
161603																< 5
161604																< 5
161605																19
161606	0.2	0.5	2.9	0.5	0.1	0.4	0.002	0.10	2.6	8	7.5	1.2	0.224	0.028	< 0.01	< 5
161607	0.1	< 0.1	0.1	< 0.1	< 0.1	0.3	0.006	< 0.05	1.3	< 1	1.3	0.1	0.0094	0.002	< 0.01	< 5
161608																< 5
161609																< 5
161610																< 5

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppb
Detection Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01	5
Analysis Method	TD-MS	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-ICP	TD-ICP	FA-AA
161611																< 5
161612																979
161613	0.3	0.2	1.5	0.3	< 0.1	0.1	0.003	0.14	3.4	19	4.3	0.7	0.239	0.060	0.04	< 5
161614																< 5
161615																32
161616																< 5
161617																5
161618																< 5
161619																< 5
161620	0.2	0.4	2.1	0.3	< 0.1	0.1	0.003	0.26	2.8	18	3.8	0.5	0.247	0.100	0.31	< 5
161621																< 5
161622																< 5
161623	0.4	0.3	1.7	0.2	< 0.1	0.1	0.003	< 0.05	0.7	43	0.8	< 0.1	0.183	0.026	0.12	< 5
161624																< 5
161625	0.3	0.3	1.6	0.3	< 0.1	0.1	0.003	0.16	5.2	41	0.7	0.2	0.301	0.027	0.24	17
161626																< 5
161627																< 5
161628	0.2	0.2	1.2	0.2	0.2	0.2	0.003	0.10	1.5	10	4.3	0.6	0.311	0.036	0.01	< 5
161629																< 5
161630																< 5
161631																< 5
161632																< 5
161633																33
161634																< 5
161635	0.4	0.2	1.2	0.2	< 0.1	1.7	0.002	0.09	1.2	13	3.1	0.5	0.264	0.030	0.03	< 5
161636																2270
161637																< 5
161638	0.5	0.6	3.2	0.5	0.4	0.4	0.003	0.07	3.2	13	6.8	1.0	0.256	0.040	0.04	< 5
161639																< 5
161640																< 5
161641																< 5
161642																< 5
161643	0.1	0.3	1.8	0.3	< 0.1	0.1	0.003	0.12	2.3	14	3.9	0.4	0.145	0.092	0.02	< 5
161644																< 5
161645																< 5
161646																< 5
161647																< 5
161648																< 5
161649																< 5
161650	0.3	0.2	1.2	0.2	< 0.1	0.1	0.002	< 0.05	1.7	20	2.3	0.6	0.302	0.020	0.04	< 5
161651																< 5
161652																< 5
161653																< 5
161654	0.2	0.2	1.1	0.2	< 0.1	0.3	0.002	0.21	1.3	14	3.6	0.5	0.149	0.081	0.04	< 5
161655	0.3	0.3	1.5	0.2	< 0.1	0.1	0.002	0.16	1.6	9	3.0	0.5	0.197	0.038	0.15	< 5
161656	0.1	0.1	0.6	< 0.1	0.1	1.0	0.002	0.12	1.5	24	1.3	0.2	0.221	0.013	0.03	< 5
161657	1.3	0.3	1.8	0.3	0.4	1.0	0.002	< 0.05	1.8	36	2.1	0.7	0.773	0.030	0.13	< 5
161658																< 5
161659																< 5
161660	0.1	0.3	1.7	0.3	< 0.1	0.1	0.003	0.12	2.3	15	2.4	0.4	0.266	0.090	0.02	< 5

QC

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Analysis Method	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-1 Meas	8.7	0.05	0.21	1.83	0.05	0.79	2.7	79	20.4	847	25.1	0.2	1740	40.0		1.2		32.6	2.87	7.7	0.69	1550	16.3
GXR-1 Cert	8.20	0.0520	0.217	3.52	0.050	0.960	3.30	80.0	12.0	852	23.6	0.960	3900	41.0		1.22		31.0	3.00	8.20	0.690	1380	16.6
GXR-1 Meas																							
GXR-1 Cert																							
GXR-4 Meas	12.4	0.58	1.67	6.04	2.14	0.95	0.1	87	44.7	173	3.25	1.1		40.5		2.2		3.41	2.63	14.3	1.57	20.8	6.2
GXR-4 Cert	11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30		42.0		1.90		4.00	2.80	14.6	1.63	19.0	5.60
GXR-4 Meas																							
GXR-4 Cert																							
SDC-1 Meas	40.3	1.68	0.99	7.50	1.25	0.95		40	45.3	839	5.03	0.8		34.5	4.3	3.3	1.5		4.13	17.6	1.73		
SDC-1 Cert	34.00	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30		38.0	4.10	3.00	1.50		4.00	18.0	1.70		
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas	37.0	0.10	0.57	> 10.0	0.71	0.14	0.2	127	52.7	988	5.62	1.6		23.9		1.5		0.28	4.19	13.0	0.70	0.23	1.2
GXR-6 Cert	32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30		27.0		1.40		1.30	4.20	13.8	0.760	0.290	0.940
GXR-6 Meas																							
GXR-6 Cert																							
SAR-M (U.S.G.S.) Meas	33.5	1.32	0.49	5.66	1.43	0.55	4.4	50	77.3	4660	3.38			45.0		3.0		2.74		10.5		2.29	1.1
SAR-M (U.S.G.S.) Cert	27.4	1.140	0.50	6.30	2.94	0.61	5.27	67.2	79.7	5220	2.99			41.5		2.20		3.64		10.70		1.94	0.39
SAR-M (U.S.G.S.) Meas																							
SAR-M (U.S.G.S.) Cert																							
DNC-1a Meas	5.7							149	153					269						56.3	0.66		
DNC-1a Cert	5.20							148.00	270					247						57.0	0.59		
DNC-1a Meas																							
DNC-1a Cert																							
CDN-GS-1L Meas																							
CDN-GS-1L Cert																							
CDN-GS-1L Meas																							
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Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Analysis Method	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OxD108 Meas																							
OxD108 Cert																							
OxD108 Meas																							
OxD108 Cert																							
OxD108 Meas																							
OxD108 Cert																							
OxD108 Meas																							
OxD108 Cert																							
OxD108 Meas																							
OxD108 Cert																							
SBC-1 Meas	188						0.5	215	90.3			2.8		85.6	3.9	3.9	1.4		8.32	22.4	2.03	0.76	
SBC-1 Cert	163.0						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70	
SBC-1 Meas																							
SBC-1 Cert																							
161510 Orig																							
161510 Dup																							
161520 Orig																							
161520 Dup																							
161530 Orig																							
161530 Split																							
161530 Orig																							
161530 Dup																							
161545 Orig																							
161545 Dup																							
161550 Orig	37.3	0.26	3.34	5.50	0.22	3.39	0.2	240	66.8	1270	11.6	0.9	< 10	45.2	3.9	1.9	1.4	0.24	1.18	40.6	1.24	1.91	< 0.1
161550 Split	37.3	0.28	3.67	5.98	0.24	3.59	0.2	213	69.4	1290	12.2	0.4	< 10	48.3	3.8	2.1	1.3	0.10	1.23	43.4	1.26	1.90	0.7
161555 Orig																							
161555 Dup																							
161560 Orig																							
161560 Split																							
161565 Orig																							
161565 Dup																							
161580 Orig																							
161580 Dup																							
161601 Orig																							
161601 Split																							
161601 Orig																							
161601 Dup																							
161611 Orig																							
161611 Split																							
161611 Orig																							
161611 Dup																							
161625 Orig	19.7	0.08	3.53	7.16	1.51	3.60	0.2	210	128	1590	7.91	0.9	< 10	127	1.8	1.5	0.6	0.16	1.11	54.5	0.68	0.64	0.8
161625 Dup	19.1	0.07	3.34	6.77	0.90	3.43	0.2	198	137	1510	7.74	0.9	< 10	122	1.9	1.4	0.6	0.20	1.12	52.0	0.68	0.64	0.4
161626 Orig																							
161626 Dup																							
161631 Orig																							
161631 Split																							
161635 Orig	14.2	> 3.00	1.52	7.08	0.71	3.64	0.1	95	28.3	734	4.42	3.0	< 10	46.8	1.4	1.5	0.5	0.15	0.20	15.9	0.64	0.10	< 0.1
161635 Dup	14.5	> 3.00	1.54	7.14	0.80	3.70	< 0.1	92	26.3	757	4.58	3.0	< 10	47.4	1.5	1.6	0.5	0.13	0.22	16.3	0.70	0.12	< 0.1

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Analysis Method	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank	< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	< 0.5	< 1	< 0.01	< 0.1	< 10	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	< 0.1
Method Blank	< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	< 0.5	< 1	< 0.01	< 0.1	< 10	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	< 0.1
Method Blank	< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	< 0.5	< 1	< 0.01	< 0.1	< 10	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	< 0.1
Method Blank																							

QC

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Analysis Method	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-1 Meas	812	8.7	406	2.7	28.2	280	19	0.8	17.3	0.8	26	27.9	10.1	678	7.3	14.3		8.4	2.9	4.8	0.9	5.6	1280
GXR-1 Cert	760	13.8	427	14.0	32.0	275	38.0	0.800	18.0	0.770	54.0	122	13.0	750	7.50	17.0		18.0	2.70	4.20	0.830	4.30	1110
GXR-1 Meas																							
GXR-1 Cert																							
GXR-4 Meas	75.3	17.1	97.0	107	13.3	208	38	8.4	314	0.2	7	4.3	1.1	104	54.9	103		39.2	5.8	5.4	0.6	3.0	6460
GXR-4 Cert	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60	6520
GXR-4 Meas																							
GXR-4 Cert																							
SDC-1 Meas	105	20.3	< 0.1	72.1		173	36	0.2			< 1	< 0.1		662	40.3	86.1		39.3	7.7	8.1	1.2	7.3	34.5
SDC-1 Cert	103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70	30.00
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas	132	24.8	240	37.1	11.8	33.9	72	0.5	0.98	< 0.1	< 1	1.1	0.3	1210	12.2	32.8		11.6	2.5	2.8	0.4	2.7	74.4
GXR-6 Cert	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80	66.0
GXR-6 Meas																							
GXR-6 Cert																							
SAR-M (U.S.G.S.) Meas	892	14.8	26.6	75.7	33.6	147		1.4	5.18	1.0	3	3.2	0.6	806	57.0	118							345
SAR-M (U.S.G.S.) Cert	930.0	17	38.8	146	28.00	151		29.9	13.1	1.08	2.76	6.0	0.96	801	57.4	122.0							331
SAR-M (U.S.G.S.) Meas																							
SAR-M (U.S.G.S.) Cert																							
DNC-1a Meas	67.6				16.1	139	55					0.8		109	3.6			4.8					118
DNC-1a Cert	70.0				18.0	144.0	38.000					0.96		118	3.6			5.20					100.0
DNC-1a Meas																							
DNC-1a Cert																							
CDN-GS-1L Meas																							
CDN-GS-1L Cert																							
CDN-GS-1L Meas																							
CDN-GS-1L Cert																							
CDN-GS-1L Meas																							
CDN-GS-1L Cert																							
CDN-GS-1L Meas																							
CDN-GS-1L Cert																							
CDN-GS-1L Meas																							
CDN-GS-1L Cert																							
CDN-GS-1L Meas																							
CDN-GS-1L Cert																							
CDN-GS-1L Meas																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Analysis Method	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
CDN-GS-1L Cert																							
CDN-GS-1L Meas																							
CDN-GS-1L Cert																							
OxD108 Meas																							
OxD108 Cert																							
OxD108 Meas																							
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OxD108 Meas																							
OxD108 Cert																							
OxD108 Meas																							
OxD108 Cert																							
SBC-1 Meas	203	25.6	24.6	119	31.5	178	116	13.0	2.61		3	1.1		792	48.3	102	12.0	44.4	8.9	9.2	1.3	7.2	34.9
SBC-1 Cert	186.0	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10	31.0
SBC-1 Meas																							
SBC-1 Cert																							
161510 Orig																							
161510 Dup																							
161520 Orig																							
161520 Dup																							
161530 Orig																							
161530 Split																							
161530 Orig																							
161530 Dup																							
161545 Orig																							
161545 Dup																							
161550 Orig	126	18.9	2.0	18.9	26.5	170	25	1.0	0.19	0.1	10	< 0.1	< 0.1	49	9.5	21.5	2.9	12.5	3.5	5.2	0.9	6.3	167
161550 Split	132	19.8	1.0	19.5	28.0	175	13	0.2	0.22	0.1	7	< 0.1	0.2	47	9.7	22.0	2.9	12.9	3.6	5.3	0.9	6.1	178
161555 Orig																							
161555 Dup																							
161560 Orig																							
161560 Split																							
161565 Orig																							
161565 Dup																							
161580 Orig																							
161580 Dup																							
161601 Orig																							
161601 Split																							
161601 Orig																							
161601 Dup																							
161611 Orig																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Analysis Method	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
161611 Split																							
161611 Orig																							
161611 Dup																							
161625 Orig	71.3	15.5	2.2	32.0	14.1	33.1	37	0.3	0.13	< 0.1	< 1	< 0.1	0.1	516	6.6	13.0	1.7	7.7	2.2	3.2	0.5	2.9	266
161625 Dup	68.4	15.1	1.7	26.4	13.3	32.2	36	< 0.1	0.09	< 0.1	< 1	< 0.1	< 0.1	456	6.6	13.2	1.7	7.8	2.3	3.3	0.5	3.0	252
161626 Orig																							
161626 Dup																							
161631 Orig																							
161631 Split																							
161635 Orig	77.6	16.2	5.5	22.0	11.1	97.3	116	2.0	0.54	< 0.1	1	0.1	< 0.1	388	13.9	26.9	2.9	10.7	2.2	2.6	0.4	2.3	31.5
161635 Dup	80.4	16.7	5.0	23.0	11.5	102	119	1.7	0.30	< 0.1	1	< 0.1	< 0.1	405	15.3	28.1	3.2	11.8	2.4	2.7	0.4	2.4	33.2
161636 Orig																							
161636 Dup																							
161646 Orig																							
161646 Dup																							
161661 Orig	167	22.8	< 0.1	8.6	12.0	54.8	14	< 0.1	0.48	< 0.1	5	< 0.1	< 0.1	72	7.4	16.3	1.9	7.4	1.8	2.4	0.4	2.6	11.6
161661 Split	169	22.8	< 0.1	8.6	12.0	53.7	21	0.2	0.67	< 0.1	7	< 0.1	0.2	72	7.5	16.1	1.9	7.4	1.7	2.4	0.4	2.6	23.9
161661 Orig																							
161661 Dup																							
161671 Orig																							
161671 Dup																							
161681 Orig																							
161681 Dup																							
161691 Orig	19.9	17.5	< 0.1	29.2	19.9	66.1	205	9.0	1.60	< 0.1	3	0.1	0.2	419	19.0	42.8	4.7	17.6	3.8	4.4	0.7	4.1	14.4
161691 Split	20.2	17.7	0.4	29.2	18.5	68.6	170	1.0	0.76	< 0.1	2	< 0.1	0.2	431	20.0	45.5	4.9	18.5	3.9	4.4	0.6	3.9	14.3
161696 Orig																							
161696 Dup																							
161706 Orig																							
161706 Dup																							
161711 Orig	73.5	21.5	0.3	26.9	21.8	163	41	0.3	0.20	< 0.1	< 1	< 0.1	0.2	214	15.9	33.8	4.3	17.5	4.0	4.9	0.7	4.6	27.4
161711 Split	70.7	21.2	< 0.1	28.3	22.1	164	42	0.8	0.31	< 0.1	< 1	< 0.1	0.2	223	16.2	35.1	4.4	18.0	4.2	5.0	0.8	4.5	27.4
161711 Split	70.7	21.2	< 0.1	28.3	22.1	164	42	0.8	0.31	< 0.1	< 1	< 0.1	0.2	223	16.2	35.1	4.4	18.0	4.2	5.0	0.8	4.5	27.4
161716 Dup																							
161751 Orig	14.7	9.9	< 0.1	25.1	32.5	55.4	178	8.7	1.48	< 0.1	1	0.3	0.2	190	27.0	62.4	7.6	29.0	6.3	7.1	1.1	6.8	11.1
161751 Split	15.4	10.3	0.8	25.7	32.0	57.5	251	12.3	1.78	< 0.1	1	< 0.1	0.3	191	27.0	62.6	7.6	29.3	6.2	7.1	1.0	6.7	2.6
161768 Orig																							
161768 Dup																							
161778 Orig																							
161778 Dup																							
161781 Orig	51.0	15.4	0.2	27.0	36.9	17.4	172	1.2	0.19	< 0.1	1	< 0.1	0.1	238	28.1	59.0	7.2	27.2	5.8	6.6	1.0	7.0	8.7
161781 Dup	49.1	14.9	< 0.1	27.4	35.5	16.8	157	1.6	0.29	< 0.1	1	< 0.1	0.2	243	27.8	58.2	7.0	26.6	5.6	6.7	1.0	6.9	7.7
161807 Orig																							
161807 Split																							
161807 Orig																							
161807 Dup																							
161807 Split																							
Method Blank																							
Method Blank																							

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppb
Detection Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01	5
Analysis Method	TD-MS	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-ICP	TD-ICP	FA-AA
DNC-1a Meas										31			0.303			
DNC-1a Cert										31			0.29			
CDN-GS-1L Meas																1140
CDN-GS-1L Cert																1160.00
CDN-GS-1L Meas																1090
CDN-GS-1L Cert																1160.00
CDN-GS-1L Meas																1200
CDN-GS-1L Cert																1160.00
CDN-GS-1L Meas																1230
CDN-GS-1L Cert																1160.00
CDN-GS-1L Meas																1240
CDN-GS-1L Cert																1160.00
CDN-GS-1L Meas																1180
CDN-GS-1L Cert																1160.00
CDN-GS-1L Meas																1190
CDN-GS-1L Cert																1160.00
CDN-GS-1L Meas																1140
CDN-GS-1L Cert																1160.00
OxD108 Meas																402
OxD108 Cert																414.000
OxD108 Meas																400
OxD108 Cert																414.000
OxD108 Meas																406
OxD108 Cert																414.000
OxD108 Meas																418
OxD108 Cert																414.000
OxD108 Meas																417
OxD108 Cert																414.000
OxD108 Meas																415
OxD108 Cert																414.000
OxD108 Meas																392
OxD108 Cert																414.000
OxD108 Meas																404
OxD108 Cert																414.000
SBC-1 Meas		0.6	3.2	0.5	0.7	1.6		0.96	31.9	21	22.0	5.4	0.478			
SBC-1 Cert		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51			
SBC-1 Meas										22			0.549			
SBC-1 Cert										20.0			0.51			
161510 Orig																< 5
161510 Dup																< 5
161520 Orig																< 5
161520 Dup																< 5
161530 Orig																< 5
161530 Split																< 5
161530 Orig																< 5
161530 Dup																< 5
161545 Orig																< 5
161545 Dup																< 5

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppb
Detection Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01	5
Analysis Method	TD-MS	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-ICP	TD-ICP	FA-AA
161550 Orig	0.4	0.6	3.0	0.5	< 0.1	1.4	0.004	0.12	7.3	42	3.1	0.4	0.461	0.048	0.47	5
161550 Split	0.3	0.5	3.0	0.5	< 0.1	0.3	0.005	0.12	7.4	44	2.8	0.4	0.355	0.043	0.48	< 5
161555 Orig																< 5
161555 Dup																< 5
161560 Orig																< 5
161560 Split																< 5
161565 Orig																9
161565 Dup																11
161580 Orig																< 5
161580 Dup																6
161601 Orig																< 5
161601 Split																< 5
161601 Orig																< 5
161601 Dup																< 5
161611 Orig																< 5
161611 Split																< 5
161611 Orig																< 5
161611 Dup																< 5
161625 Orig	0.4	0.3	1.5	0.3	< 0.1	0.1	0.002	0.16	5.2	42	0.9	0.2	0.331	0.027	0.24	
161625 Dup	0.3	0.3	1.6	0.3	< 0.1	0.1	0.004	0.17	5.3	40	0.6	0.2	0.271	0.026	0.24	
161626 Orig																< 5
161626 Dup																< 5
161631 Orig																< 5
161631 Split																< 5
161635 Orig	0.4	0.2	1.2	0.2	0.1	2.0	0.003	0.09	1.1	13	3.0	0.4	0.263	0.030	0.03	
161635 Dup	0.5	0.2	1.3	0.2	< 0.1	1.5	0.002	0.09	1.2	13	3.2	0.5	0.265	0.031	0.03	
161636 Orig																2280
161636 Dup																2270
161646 Orig																< 5
161646 Dup																< 5
161661 Orig	0.2	0.2	1.3	0.2	< 0.1	0.2	0.005	0.06	1.0	23	2.2	0.3	0.196	0.020	0.01	< 5
161661 Split	0.2	0.2	1.4	0.2	< 0.1	0.2	0.003	0.06	1.0	23	2.4	0.3	0.302	0.018	0.01	< 5
161661 Orig																< 5
161661 Dup																< 5
161671 Orig																< 5
161671 Dup																< 5
161681 Orig																< 5
161681 Dup																< 5
161691 Orig	0.3	0.4	2.1	0.3	0.6	2.7	0.003	0.13	2.2	7	8.3	1.2	0.211	0.018	< 0.01	< 5
161691 Split	0.3	0.3	2.0	0.3	< 0.1	0.3	0.003	0.11	2.2	7	7.3	1.2	0.155	0.017	< 0.01	< 5
161696 Orig																< 5
161696 Dup																< 5
161706 Orig																< 5
161706 Dup																< 5
161711 Orig	0.2	0.4	1.9	0.3	< 0.1	0.1	0.003	0.18	1.5	15	3.2	0.5	0.196	0.088	0.03	< 5
161711 Split	0.3	0.4	2.0	0.3	< 0.1	< 0.1	0.004	0.14	1.5	16	3.8	0.4	0.246	0.093	0.03	< 5
161711 Split	0.3	0.4	2.0	0.3	< 0.1	< 0.1	0.004	0.14	1.5	16	3.8	0.4	0.246	0.093	0.03	< 5
161716 Dup																< 5

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppb
Detection Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01	5
Analysis Method	TD-MS	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-ICP	TD-ICP	FA-AA
161751 Orig	0.2	0.7	4.1	0.7	0.4	1.0	0.004	0.09	2.2	2	7.3	1.6	0.114	0.008	< 0.01	< 5
161751 Split	0.2	0.7	4.0	0.6	0.5	1.2	0.003	0.10	2.2	2	8.5	1.6	0.116	0.012	< 0.01	< 5
161768 Orig																< 5
161768 Dup																< 5
161778 Orig																< 5
161778 Dup																< 5
161781 Orig	0.3	0.7	4.2	0.7	< 0.1	0.1	0.003	0.14	1.3	11	6.2	1.1	0.141	0.027	< 0.01	
161781 Dup	0.3	0.7	4.1	0.7	< 0.1	0.1	0.003	0.12	1.3	11	6.7	1.1	0.127	0.026	< 0.01	
161807 Orig																< 5
161807 Split																< 5
161807 Orig																< 5
161807 Dup																< 5
161807 Split																< 5
Method Blank																< 5
Method Blank																< 5
Method Blank																< 5
Method Blank																< 5
Method Blank																< 5
Method Blank																< 5
Method Blank																< 5
Method Blank																< 5
Method Blank																< 5
Method Blank																< 5
Method Blank																< 5
Method Blank																< 5
Method Blank																< 5
Method Blank																< 5
Method Blank																< 5
Method Blank																< 5
Method Blank																< 5
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	0.0008	< 0.001	< 0.01	
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	0.0005	< 0.001	< 0.01	
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01	
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	0.0006	< 0.001	< 0.01	
Method Blank										< 1			< 0.0005	< 0.001	< 0.01	



Date Submitted: 15-Aug-14
Invoice No.: A14-05620
Invoice Date: 22-Aug-14
Your Reference: BENNEWEIS

Trelawney Mining and Exploration
130 King Street West
Suite 2810 - PO Box 182
Toronto ON M5X 1A6
Canada

ATTN: Alan Smith

CERTIFICATE OF ANALYSIS

64 Rock samples were submitted for analysis.

The following analytical package was requested:

Code 1A2-Sudbury Au - Fire Assay AA
Code 1A3-50-Sudbury Au - Fire Assay Gravimetric

REPORT **A14-05620**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

50 g of sample

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

A handwritten signature in black ink, consisting of several loops and a long horizontal stroke at the end.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

1010 Lorne Street Unit West 4, Sudbury, Ontario, Canada, P3C 4R9
TELEPHONE +705 586-3288 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Sudbury@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Detection Limit	5	0.02
Analysis Method	FA-AA	FA-GRA
161721	< 5	
161722	< 5	
161723	< 5	
161724	< 5	
161725	< 5	
161726	< 5	
161727	< 5	
161728	< 5	
161729	< 5	
161730	< 5	
161731	< 5	
161732	< 5	
161733	< 5	
161734	< 5	
161735	< 5	
161736	2230	2.14
161737	< 5	
161738	< 5	
161739	< 5	
161740	< 5	
161741	14	
161742	< 5	
161743	7	
161744	< 5	
161745	< 5	
161746	8	
161747	< 5	
161748	< 5	
161749	< 5	
161750	12	
161782	< 5	
161783	< 5	
161784	< 5	
161785	< 5	
161786	1490	
161787	< 5	
161788	< 5	
161791	< 5	
161792	< 5	
161793	< 5	
161794	14	
161795	< 5	
161796	11	
161797	< 5	
161798	< 5	
161799	6	
161800	< 5	
161808	< 5	
161809	< 5	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Detection Limit	5	0.02
Analysis Method	FA-AA	FA-GRA
161810	8	
161811	< 5	
161812	1030	
161813	< 5	
161814	< 5	
161815	< 5	
161817	< 5	
161818	35	
161819	< 5	
161820	45	
161851	< 5	
161852	< 5	
161853	< 5	
161854	< 5	

QC

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Detection Limit	5	0.02
Analysis Method	FA-AA	FA-GRA
OXK94 Meas		3.51
OXK94 Cert		3.56
OXL93 Meas		5.78
OXL93 Cert		5.84
OxD108 Meas	432	
OxD108 Cert	414.000	
OxD108 Meas	420	
OxD108 Cert	414.000	
SG66 Meas	1130	
SG66 Cert	1090	
SG66 Meas	1100	
SG66 Cert	1090	
161730 Orig	< 5	
161730 Dup	< 5	
161740 Orig	< 5	
161740 Dup	< 5	
161750 Orig	12	
161750 Split	11	
161782 Orig	7	
161782 Dup	< 5	
161793 Orig	< 5	
161793 Dup	8	
161810 Orig	8	
161810 Split	< 5	
161811 Orig	< 5	
161811 Dup	< 5	
161820 Orig	45	
161820 Split	62	
161851 Orig	< 5	
161851 Dup	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank		< 0.02
Method Blank		< 0.02



Date Submitted: 21-Aug-14
Invoice No.: A14-05832
Invoice Date: 05-Sep-14
Your Reference: BENNEWEIS

Trelawney Mining and Exploration
130 King Street West
Suite 2810 - PO Box 182
Toronto ON M5X 1A6
Canada

ATTN: Alan Smith

CERTIFICATE OF ANALYSIS

11 Rock samples were submitted for analysis.

The following analytical package was requested:

Code 1A2-Sudbury Au - Fire Assay AA

REPORT **A14-05832**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva".

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

1010 Lorne Street Unit West 4, Sudbury, Ontario, Canada, P3C 4R9
TELEPHONE +705 586-3288 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Sudbury@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com



Date Submitted: 21-Aug-14
Invoice No.: A14-05832
Invoice Date: 05-Sep-14
Your Reference: BENNEWEIS

Trelawney Mining and Exploration
130 King Street West
Suite 2810 - PO Box 182
Toronto ON M5X 1A6
Canada

ATTN: Alan Smith

CERTIFICATE OF ANALYSIS

11 Rock samples were submitted for analysis.

The following analytical package was requested:

Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A14-05832**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva".

Elitsa Hrischeva, Ph.D.
Quality Control



Results

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Analysis Method	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
161855	< 5	7.1	> 3.00	0.82	5.82	0.50	2.02	0.1	46	18.2	313	2.51	2.3	20	17.7	1.9	1.4	0.6	0.09	0.21	8.8	1.13	0.10
161856	< 5	11.9	1.47	0.62	6.77	2.20	0.60	0.1	41	13.4	187	2.22	2.7	10	7.2	1.3	2.0	0.5	0.12	0.99	5.5	0.66	0.04
161857	7	8.1	> 3.00	1.27	7.75	0.95	2.62	< 0.1	38	19.6	459	5.16	1.3	< 10	19.6	2.6	1.3	0.9	0.07	0.32	35.4	1.49	0.30
161858	< 5	6.7	2.55	1.06	6.18	1.37	1.57	< 0.1	52	13.8	330	2.30	2.8	< 10	15.1	1.0	0.4	0.3	0.11	0.49	10.7	0.65	0.11
161859	< 5	10.3	1.50	3.10	6.47	0.17	6.32	0.2	234	97.2	1450	8.97	0.5	< 10	61.6	3.1	0.7	1.0	0.06	0.61	42.7	1.08	0.54
161860	< 5	7.0	0.08	1.70	5.04	1.78	0.10	< 0.1	19	< 0.5	492	1.76	3.6	< 10	3.0	2.7	0.8	0.9	0.16	0.46	3.5	0.37	0.08
161861	< 5	20.4	> 3.00	2.70	5.96	0.10	1.26	< 0.1	150	51.2	705	5.07	1.6	< 10	38.3	2.1	4.8	0.7	0.06	0.37	23.0	0.64	0.27
161862	257	29.2	2.11	1.26	6.24	1.81	2.42	< 0.1	109	85.9	540	4.20	2.5	< 10	47.1	2.7	2.6	1.0	0.83	10.7	16.4	1.26	1.52
161863	< 5	8.4	1.08	2.64	3.82	0.11	6.03	0.2	386	79.5	1620	10.4	0.8	< 10	79.1	2.5	1.1	0.8	0.13	0.17	54.4	0.78	0.38
161864	< 5	8.6	2.72	1.05	5.86	0.99	1.11	< 0.1	46	22.0	322	2.57	2.0	< 10	20.9	1.6	1.0	0.5	0.21	0.33	9.7	0.73	0.12
161865	14	19.0	2.98	1.74	6.24	1.07	0.51	< 0.1	36	12.2	341	2.49	4.2	< 10	14.4	2.5	2.6	0.8	0.13	0.66	14.7	0.79	0.33

Results

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Analysis Method	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
161855	0.4	25.0	16.4	4.0	19.6	18.2	233	94	3.6	0.87	< 0.1	< 1	< 0.1	< 0.1	215	40.3	81.4	9.6	32.5	5.2	4.4	0.6	3.4
161856	< 0.1	18.7	25.0	1.1	84.3	12.6	90.7	106	7.4	0.22	< 0.1	6	< 0.1	< 0.1	854	27.3	57.4	6.3	20.4	3.3	3.0	0.4	2.4
161857	0.3	28.9	22.2	1.5	36.4	24.7	180	47	3.4	0.44	< 0.1	13	< 0.1	< 0.1	343	18.8	39.8	4.9	19.2	4.3	4.8	0.7	4.6
161858	< 0.1	70.4	17.2	0.5	46.9	10.2	129	126	5.1	1.27	< 0.1	2	< 0.1	< 0.1	368	15.8	30.2	3.4	11.7	2.2	2.2	0.3	1.8
161859	< 0.1	98.7	22.2	0.5	10.3	26.9	149	18	0.6	0.30	0.2	13	< 0.1	< 0.1	39	5.1	12.2	1.8	8.5	2.7	4.0	0.7	4.9
161860	< 0.1	81.8	15.1	0.5	63.8	23.5	6.8	130	7.8	1.76	< 0.1	2	< 0.1	< 0.1	179	19.6	37.9	4.5	16.0	3.1	3.4	0.5	3.7
161861	< 0.1	67.5	16.4	0.5	4.9	19.4	79.4	48	2.0	0.81	< 0.1	17	< 0.1	< 0.1	58	9.3	18.4	2.2	8.1	1.9	2.7	0.5	3.3
161862	1.9	86.0	17.8	18.2	149	24.8	319	97	11.0	85.3	0.2	5	0.5	< 0.1	951	32.9	63.3	7.9	27.5	5.2	5.1	0.7	4.8
161863	0.9	107	18.7	2.3	1.8	16.3	171	18	3.4	1.58	< 0.1	5	0.3	< 0.1	41	2.5	6.9	1.1	5.8	1.9	2.8	0.5	3.8
161864	0.6	43.2	14.2	1.8	39.9	15.1	125	77	6.6	0.46	< 0.1	3	< 0.1	< 0.1	419	25.7	51.0	5.9	19.7	3.3	3.0	0.4	2.7
161865	< 0.1	55.9	16.9	3.5	49.6	21.7	98.5	155	3.2	0.96	< 0.1	4	< 0.1	< 0.1	333	40.3	80.5	9.0	30.8	5.2	5.1	0.7	4.1

Results

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Detection Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Analysis Method	TD-MS	TD-MS	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-ICP	TD-ICP
161855	7.2	0.4	0.3	1.7	0.3	0.3	0.3	0.005	0.08	3.5	8	8.4	1.5	0.259	0.049	0.02
161856	1.9	0.6	0.2	1.3	0.2	0.4	1.8	0.003	0.23	2.4	7	8.6	1.2	0.218	0.027	< 0.01
161857	30.8	0.5	0.4	2.1	0.3	< 0.1	1.6	0.005	0.15	2.1	16	5.1	0.9	0.521	0.105	0.59
161858	62.4	0.1	0.1	0.9	0.1	0.4	1.7	0.003	0.28	3.4	9	3.0	2.9	0.217	0.026	0.14
161859	76.5	0.7	0.5	2.8	0.5	< 0.1	0.1	0.006	0.09	6.4	45	1.4	0.3	0.365	0.029	0.52
161860	24.0	0.1	0.4	2.3	0.4	0.6	0.6	0.003	0.27	10.2	6	4.8	1.0	0.161	0.017	< 0.01
161861	11.0	0.4	0.3	2.0	0.3	0.2	2.1	0.003	< 0.05	2.4	26	7.1	1.3	0.304	0.025	0.05
161862	2330	0.4	0.4	2.3	0.4	0.5	2.3	0.005	0.90	20.6	14	18.8	5.2	0.435	0.091	0.35
161863	87.3	0.3	0.4	2.2	0.4	0.4	1.9	0.003	0.08	8.0	28	2.5	0.1	0.765	0.036	0.29
161864	68.2	0.2	0.2	1.5	0.2	0.4	1.0	0.002	0.14	3.2	9	7.5	1.6	0.254	0.040	0.07
161865	81.9	0.2	0.3	2.1	0.4	< 0.1	0.4	0.003	0.22	3.4	6	14.2	1.5	0.247	0.035	0.18

QC

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Analysis Method	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-1 Meas		7.2	0.05	0.18	1.79	0.04	0.81	2.2	83	7.1	890	23.8	< 0.1	3420	40.1		0.9		33.0	2.61	8.3	0.54	1250
GXR-1 Cert		8.20	0.0520	0.217	3.52	0.050	0.960	3.30	80.0	12.0	852	23.6	0.960	3900	41.0		1.22		31.0	3.00	8.20	0.690	1380
GXR-4 Meas		11.0	0.59	1.65	6.00	2.51	0.98	0.2	87	35.6	149	2.93	0.8		40.5		2.0		3.76	2.44	14.7	1.28	17.2
GXR-4 Cert		11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30		42.0		1.90		4.00	2.80	14.6	1.63	19.0
SDC-1 Meas		36.5	1.71	0.96	7.45	2.10	1.01		48	43.0	865	4.67	0.6		35.7	3.9	3.4	1.4		3.95	19.0	1.48	
SDC-1 Cert		34.00	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30		38.0	4.10	3.00	1.50		4.00	18.0	1.70	
GXR-6 Meas		35.7	0.11	0.56	> 10.0	1.47	0.17	0.2	182	51.0	1080	5.33	2.3		24.6		1.3		0.38	3.96	14.1	0.60	0.18
GXR-6 Cert		32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30		27.0		1.40		1.30	4.20	13.8	0.760	0.290
SAR-M (U.S.G.S.) Meas		27.7	1.22	0.41	4.88	2.28	0.51	4.3	66	81.2	5150	2.96			41.0		2.6		4.10		10.9		1.82
SAR-M (U.S.G.S.) Cert		27.4	1.140	0.50	6.30	2.94	0.61	5.27	67.2	79.7	5220	2.99			41.5		2.20		3.64		10.70		1.94
DNC-1a Meas		5.1							143	132					269						58.8	0.60	
DNC-1a Cert		5.20							148.00	270					247						57.0	0.59	
OxD108 Meas	434																						
OxD108 Cert	414.000																						
SBC-1 Meas		169						0.4	214	67.1			2.7		88.2	4.0	3.8	1.4		8.34	23.8	1.89	0.68
SBC-1 Cert		163.0						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70
SG66 Meas	1050																						
SG66 Cert	1090																						
DMMAS 116 Meas																							
DMMAS 116 Cert																							
161855 Orig		7.1	> 3.00	0.80	5.78	0.50	1.99	0.1	45	18.4	309	2.45	2.4	20	17.4	1.8	1.3	0.6	0.08	0.21	8.6	1.12	0.11
161855 Dup		7.1	> 3.00	0.83	5.86	0.51	2.04	0.1	48	18.1	317	2.56	2.1	20	17.9	1.9	1.4	0.6	0.10	0.21	9.0	1.15	0.08
161864 Orig	< 5																						
161864 Dup	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	< 0.5	< 1	< 0.01	< 0.1	< 10	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	< 0.5	< 1	< 0.01	< 0.1	< 10	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02

QC

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Analysis Method	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-1 Meas	15.1	771	12.8	410	3.0	30.0	294	19	0.8	17.3	0.7	25	26.0	9.1	678	6.6	12.6		7.3	2.5	3.8	0.7	4.7
GXR-1 Cert	16.6	760	13.8	427	14.0	32.0	275	38.0	0.800	18.0	0.770	54.0	122	13.0	750	7.50	17.0		18.0	2.70	4.20	0.830	4.30
GXR-4 Meas	5.8	82.1	18.4	97.9	131	13.9	217	37	9.0	303	0.2	6	4.5	1.1	146	50.8	92.4		36.8	5.6	4.2	0.5	2.7
GXR-4 Cert	5.60	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60
SDC-1 Meas		105	21.5	< 0.1	115		174	35	1.4			< 1	0.1		659	40.1	82.7		36.9	7.2	7.0	1.0	6.8
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
GXR-6 Meas	1.0	128	31.6	306	78.7	12.8	39.1	94	2.8	1.95	< 0.1	1	1.3	< 0.1	1300	12.3	32.2		11.5	2.4	2.4	0.4	2.5
GXR-6 Cert	0.940	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80
SAR-M (U.S.G.S.) Meas	1.1	889	18.6	37.4	127	30.0	136		25.7	12.3	1.0	3	4.5	0.8	718	43.7	91.9						
SAR-M (U.S.G.S.)	0.39	930.0	17	38.8	146	28.00	151		29.9	13.1	1.08	2.76	6.0	0.96	801	57.4	122.0						

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Analysis Method	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Cert																							
DNC-1a Meas		67.5				17.0	141	36					0.6		109	3.6			4.7				
DNC-1a Cert		70.0				18.0	144.0	38.000					0.96		118	3.6			5.20				
OxD108 Meas																							
OxD108 Cert																							
SBC-1 Meas		188	26.3	25.2	142	33.3	185	111	12.0	2.18		3	1.0		828	50.8	101	12.6	46.3	9.0	8.5	1.2	7.3
SBC-1 Cert		186.0	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
SG66 Meas																							
SG66 Cert																							
DMMAS 116 Meas																							
DMMAS 116 Cert																							
161855 Orig	0.4	24.8	16.2	5.7	19.5	17.8	231	96	2.5	1.22	< 0.1	< 1	< 0.1	< 0.1	213	40.4	82.0	9.7	32.9	5.3	4.4	0.6	3.3
161855 Dup	0.3	25.2	16.6	2.3	19.8	18.6	236	92	4.6	0.51	< 0.1	1	< 0.1	< 0.1	218	40.3	80.7	9.6	32.2	5.2	4.4	0.6	3.4
161864 Orig																							
161864 Dup																							
Method Blank																							
Method Blank																							
Method Blank	< 0.1	< 0.2	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	< 0.2	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

QC

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Detection Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Analysis Method	TD-MS	TD-MS	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-ICP	TD-ICP
GXR-1 Meas	1090		0.4	1.9	0.3	< 0.1	123		0.36	616	2	3.4	30.3	0.0258	0.057	0.25
GXR-1 Cert	1110		0.430	1.90	0.280	0.175	164		0.390	730	1.58	2.44	34.9	0.036	0.0650	0.257
GXR-4 Meas	6380		0.2	0.9	0.1	0.5	32.5		2.95	42.6	8	15.0	5.3	0.290	0.132	1.77
GXR-4 Cert	6520		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77
SDC-1 Meas	31.9		0.6	3.1		< 0.1	0.1		0.62	23.7	17	13.4	5.6	0.147	0.055	
SDC-1 Cert	30.00		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
GXR-6 Meas	68.4		0.3	1.6	0.3	0.1	0.9		1.99	87.6	28	5.9	1.5		0.036	0.01
GXR-6 Cert	66.0		0.0320	2.40	0.330	0.485	1.90		2.20	101	27.6	5.30	1.54		0.0350	0.0160
SAR-M (U.S.G.S.) Meas	337						7.9		2.36	799	9	15.0	3.5	0.387	0.067	
SAR-M (U.S.G.S.) Cert	331						9.78		2.7	982	7.83	17.2	3.57	0.38	0.07	
DNC-1a Meas	98.7			1.9							31			0.269		
DNC-1a Cert	100.0			2.0							31			0.29		
OxD108 Meas																
OxD108 Cert																
SBC-1 Meas	31.4		0.6	3.2	0.5	0.6	1.5		0.87	33.2	21	16.9	5.7	0.486		
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
SG66 Meas																
SG66 Cert																
DMMAS 116 Meas											7					
DMMAS 116 Cert											6.30					
161855 Orig	5.8	0.3	0.3	1.7	0.3	0.2	0.2	0.006	0.09	3.5	8	7.6	1.5	0.251	0.049	0.02

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Detection Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Analysis Method	TD-MS	TD-MS	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-ICP	TD-ICP
161855 Dup	8.6	0.5	0.3	1.7	0.3	0.3	0.3	0.004	0.07	3.5	8	9.1	1.5	0.267	0.049	0.02
161864 Orig																
161864 Dup																
Method Blank																
Method Blank																
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	0.0005	< 0.001	< 0.01