

## **Appendix 2**

### 2014 Actlabs Assay Certificates



**Date Submitted:** 26-Sep-14  
**Invoice No.:** A14-06984-Au  
**Invoice Date:** 08-Oct-14  
**Your Reference:** Regional

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

ATTN: Alan Smith

## CERTIFICATE OF ANALYSIS

43 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 **A14-06984-Au**

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, appearing to read "Emmanuel Esemé". The signature is written over a horizontal line.

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



**Date Submitted:** 26-Sep-14  
**Invoice No.:** A14-06984-Au  
**Invoice Date:** 08-Oct-14  
**Your Reference:** Regional

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

ATTN: Alan Smith

## CERTIFICATE OF ANALYSIS

43 Rock samples were submitted for analysis.

The following analytical package was requested:

Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A14-06984-Au**

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

Emmanuel Esemé , Ph.D.  
Quality Control



## Results

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Detection Limit	5	0.02
Analysis Method	FA-AA	FA-GRA
164001	6	
164002	< 5	
164003	< 5	
164004	6	
164005	11	
164006	< 5	
164007	25	
164008	< 5	
164009	10	
164010	< 5	
164011	7	
164012	239	
164013	< 5	
164014	6	
164015	< 5	
164016	< 5	
164017	< 5	
164018	6	
164019	< 5	
164020	8	
164021	8	
164022	7	
164023	< 5	
164024	< 5	
164025	< 5	
164051	129	
164052	< 5	
164053	47	
164054	< 5	
164055	8	
164056	< 5	
164057	< 5	
164058	< 5	
164059	21	
164060	17	
164061	< 5	
164062	2170	2.27
164063	9	
164064	< 5	
164065	< 5	
164066	6	
164067	172	
164068	< 5	

## QC

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Detection Limit	5	0.02
Analysis Method	FA-AA	FA-GRA
OxK94 Meas		3.60
OxK94 Cert		3.56
OxD108 Meas	422	
OxD108 Cert	414.000	
OxD108 Meas	433	
OxD108 Cert	414.000	
SG66 Meas	1100	
SG66 Cert	1090	
SG66 Meas	1090	
SG66 Cert	1090	
164010 Orig	< 5	
164010 Dup	< 5	
164020 Orig	8	
164020 Dup	9	
164055 Orig	8	
164055 Split	9	
164055 Orig	8	
164055 Dup	8	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank		< 0.02
Method Blank		< 0.02



**Date Submitted:** 26-Sep-14  
**Invoice No.:** A14-06984-TD  
**Invoice Date:** 21-Oct-14  
**Your Reference:** Regional

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

ATTN: Alan Smith

## CERTIFICATE OF ANALYSIS

43 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 **A14-06984-TD**

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, appearing to read "Emmanuel Esemé".

Emmanuel Esemé , Ph.D.  
Quality Control





**Date Submitted:** 26-Sep-14  
**Invoice No.:** A14-06984-TD  
**Invoice Date:** 21-Oct-14  
**Your Reference:** Regional

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

ATTN: Alan Smith

## CERTIFICATE OF ANALYSIS

43 Rock samples were submitted for analysis.

The following analytical package was requested:

Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A14-06984-TD**

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, appearing to be "Emmanuel Esemé", written over a horizontal line.

Emmanuel Esemé , Ph.D.  
Quality Control



## 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
Lower 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
Method Code	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
164001	3.3	0.02	0.14	0.33	0.07	0.55	< 0.1	26	4.8	140	9.31	< 0.1	20	6.7	0.1	< 0.1	< 0.1	0.13	1.82	2.2	0.10	0.04	< 0.1
164002	1.6	0.03	0.11	0.16	0.02	0.63	0.1	5	2.9	78	0.46	< 0.1	10	4.5	< 0.1	< 0.1	< 0.1	0.06	0.06	1.3	< 0.05	< 0.02	< 0.1
164003	36.4	1.03	0.92	6.18	1.60	4.82	0.2	120	12.5	707	4.98	3.4	20	23.3	2.3	1.5	0.9	0.11	4.26	25.2	1.53	0.11	< 0.1
164004	16.0	1.52	1.85	6.32	0.47	4.05	0.7	96	52.7	985	4.26	2.4	< 10	83.2	1.3	0.9	0.5	0.14	1.16	21.3	1.19	0.20	< 0.1
164005	29.7	1.49	1.53	5.80	0.77	4.15	0.1	111	83.8	658	3.89	3.1	< 10	51.4	1.3	0.9	0.5	0.39	1.95	27.0	1.05	0.22	< 0.1
164006	10.0	0.05	0.68	2.04	0.11	1.61	0.1	34	12.1	257	1.80	< 0.1	10	9.0	0.4	0.3	0.1	0.07	0.12	2.7	0.28	0.05	< 0.1
164007	28.7	0.55	2.35	3.71	0.49	8.09	0.1	150	68.9	1170	5.55	0.7	< 10	62.5	1.4	0.6	0.5	0.07	0.74	36.3	0.44	0.10	0.1
164008	16.7	1.76	2.81	5.86	0.05	5.41	0.3	264	20.8	1770	11.1	2.7	< 10	44.5	6.0	0.8	2.1	0.42	0.18	43.3	1.94	0.05	< 0.1
164009	30.2	2.70	3.31	7.36	0.25	5.45	0.2	199	38.5	1030	7.13	3.9	< 10	120	2.4	1.0	0.9	0.27	1.41	43.7	2.05	0.03	< 0.1
164010	19.7	2.62	3.48	6.94	0.08	4.71	0.2	162	93.2	1150	6.45	2.4	< 10	116	2.0	1.0	0.8	0.15	0.85	39.9	1.26	0.04	< 0.1
164011	27.5	1.14	1.80	6.86	2.14	3.82	0.1	89	66.2	770	4.67	2.5	20	72.9	1.3	1.1	0.5	0.10	2.79	22.7	0.84	0.05	< 0.1
164012	32.1	2.03	1.46	6.58	2.08	2.71	0.3	119	82.4	565	4.33	2.8	< 10	44.9	2.8	3.5	1.0	0.77	10.9	16.8	1.23	1.73	4.0
164013	15.1	> 3.00	2.78	7.24	0.07	3.98	0.3	68	78.8	921	4.94	1.4	< 10	108	1.6	1.3	0.6	0.15	0.37	28.3	1.06	0.06	0.7
164014	11.8	1.56	3.77	6.68	0.10	5.91	0.3	225	23.4	1640	9.22	1.2	< 10	68.0	2.4	0.9	0.8	0.11	0.52	48.1	0.84	0.20	0.6
164015	20.1	2.36	5.27	6.01	0.47	4.59	0.3	81	367	1120	5.23	1.4	10	250	1.2	1.5	0.5	0.08	0.51	40.0	0.74	0.03	0.9
164016	4.0	0.55	0.56	1.67	0.13	1.05	0.2	36	27.4	218	1.32	< 0.1	< 10	19.7	0.4	0.9	0.1	0.06	0.19	6.2	0.27	< 0.02	< 0.1
164017	29.3	2.71	3.76	6.27	0.12	3.37	0.2	110	181	630	4.86	2.2	< 10	222	1.4	1.3	0.5	0.08	0.50	32.4	0.83	0.03	0.8
164018	22.2	1.28	1.90	7.18	1.25	2.80	0.3	92	138	567	3.73	2.7	30	130	1.1	1.2	0.4	0.13	1.20	21.3	0.80	0.09	0.3
164019	30.3	2.32	2.41	6.89	0.65	4.01	0.3	65	92.8	903	4.85	1.9	< 10	121	1.1	1.3	0.4	0.13	1.27	27.8	0.84	0.02	0.9
164020	24.8	0.72	4.77	5.83	0.07	5.84	0.3	352	367	1760	11.5	0.7	< 10	128	2.2	1.1	0.7	0.17	0.15	64.0	0.81	0.10	1.5
164021	31.8	2.19	4.29	7.53	0.15	4.19	0.3	139	201	1100	7.55	2.9	< 10	207	2.4	1.5	0.9	0.08	0.19	46.6	1.26	0.04	1.3
164022	29.4	1.54	2.69	7.19	0.41	3.87	0.3	142	126	874	4.70	2.8	< 10	119	1.1	1.5	0.4	0.23	0.96	23.8	0.89	0.08	1.9
164023	42.0	1.89	1.86	8.23	1.18	4.36	0.2	142	139	963	4.36	3.9	20	76.6	1.6	1.9	0.5	0.19	2.08	18.1	1.23	0.06	0.5
164024	21.0	2.83	1.77	8.71	1.75	4.84	0.3	88	20.0	1000	5.88	2.4	20	16.6	4.3	3.8	1.6	0.09	1.24	22.2	1.80	0.04	1.6
164025	19.2	1.51	1.05	4.88	0.72	1.76	0.3	52	44.5	403	2.58	1.7	60	38.8	0.9	1.5	0.3	0.07	1.37	10.8	0.67	0.02	0.5
164051	17.1	0.83	1.56	2.86	0.19	1.99	0.2	97	130	562	3.37	0.4	30	34.8	0.7	0.8	0.2	0.06	0.70	18.1	0.22	0.08	< 0.1
164052	0.8	0.02	0.08	0.13	< 0.01	0.09	0.2	15	41.0	56	0.37	< 0.1	20	4.8	< 0.1	0.7	< 0.1	< 0.05	< 0.05	1.3	< 0.05	0.02	< 0.1
164053	17.2	1.63	3.64	6.22	0.18	6.61	0.5	269	26.9	1880	10.9	0.8	70	68.4	2.8	1.3	1.0	0.43	0.48	60.8	0.99	0.53	1.1
164054	18.9	0.99	2.67	4.27	0.14	1.92	0.3	153	150	984	5.27	0.4	20	60.4	1.3	0.9	0.4	0.14	1.13	27.3	0.41	0.16	0.3
164055	24.7	1.88	4.50	7.10	0.34	9.44	0.3	222	186	1850	9.32	0.7	< 10	115	1.7	1.3	0.6	0.31	5.06	54.7	0.70	0.37	1.5
164056	9.9	0.60	1.32	2.32	0.15	1.42	0.3	66	124	558	2.45	0.1	120	44.2	0.4	0.8	0.1	0.10	1.31	13.2	0.16	0.08	0.4
164057	10.9	0.53	1.69	2.39	0.11	1.78	0.2	95	124	517	3.10	0.3	< 10	51.5	0.7	0.8	0.2	0.08	0.80	17.4	0.23	0.08	< 0.1
164058	23.7	2.87	1.25	7.03	0.65	3.00	0.4	70	31.7	340	3.19	3.0	< 10	39.6	1.4	1.7	0.5	0.11	1.34	16.7	1.18	0.03	0.7
164059	23.9	1.40	1.71	6.03	0.96	3.76	0.2	162	26.7	558	6.25	3.7	10	59.6	1.7	1.4	0.6	0.36	0.96	45.6	1.31	0.40	1.6
164060	33.4	1.66	2.51	7.53	0.43	5.10	0.2	147	95.6	1090	4.99	3.3	< 10	103	1.4	1.4	0.5	0.26	1.07	28.7	1.03	0.16	1.7
164061	21.1	2.00	3.93	7.70	0.62	6.44	0.2	188	117	1110	6.92	3.4	10	143	2.1	2.0	0.8	0.34	2.69	42.5	2.19	0.55	1.2
164062	8.8	1.66	3.37	5.58	0.57	5.23	0.3	124	147	4010	11.2	2.1	< 10	136	2.4	1.6	0.9	0.35	3.69	38.5	1.57	0.34	2.5
164063	21.3	1.91	4.05	6.54	0.21	4.67	0.3	132	178	1420	6.23	2.4	< 10	237	1.4	1.2	0.5	0.12	0.71	37.7	1.06	0.11	< 0.1
164064	11.1	0.38	1.22	1.83	0.06	1.48	0.2	71	102	447	2.76	0.2	20	39.8	0.6	1.0	0.2	0.08	0.39	14.5	0.24	0.05	0.1
164065	15.0	2.61	3.87	6.11	0.21	4.38	0.3	94	189	982	5.16	1.2	10	206	1.4	1.3	0.5	0.08	0.46	32.1	0.82	0.03	0.3
164066	26.1	1.90	1.64	6.75	1.23	2.62	0.2	104	39.5	444	3.74	3.3	20	47.5	1.4	1.8	0.5	0.12	1.50	17.5	1.12	0.22	0.7
164067	17.3	> 3.00	1.56	8.02	1.32	3.22	0.2	172	18.8	477	4.88	5.1	< 10	46.0	1.9	1.8	0.7	0.58	1.31	20.0	1.16	0.39	0.8
164068	15.7	1.52	1.59	6.36	0.49	3.16	0.3	63	24.6	315	2.77	4.5	< 10	35.7	2.3	1.7	0.8	0.11	0.94	14.6	1.50	0.10	< 0.1



## 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
Lower 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
Method Code	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
164001	13.0	2.0	5.5	7.9	1.7	20.9	5	0.2	0.49	< 0.1	< 1	0.8	< 0.1	13	1.3	2.5	0.3	1.1	0.2	0.2	< 0.1	0.2	14.6
164002	5.5	0.7	4.9	1.0	0.8	7.8	2	0.3	0.27	< 0.1	< 1	0.4	< 0.1	13	0.3	0.6	< 0.1	0.4	< 0.1	0.1	< 0.1	0.1	7.6
164003	76.5	20.7	3.9	53.2	24.2	272	174	1.5	0.84	< 0.1	< 1	0.2	< 0.1	509	26.5	61.7	8.1	31.6	6.1	5.8	0.8	4.6	49.3
164004	266	17.9	2.3	18.7	14.2	332	112	0.2	0.21	< 0.1	< 1	0.2	< 0.1	210	15.6	33.8	4.1	16.1	3.3	3.3	0.5	2.7	57.6
164005	41.3	15.8	10.5	32.1	12.4	245	138	5.4	3.22	< 0.1	< 1	1.4	< 0.1	233	16.0	35.8	4.5	17.8	3.4	3.3	0.4	2.5	77.2
164006	23.8	6.8	2.7	4.6	3.5	107	8	0.5	0.32	< 0.1	< 1	0.3	< 0.1	30	4.2	8.8	1.0	3.7	0.6	0.6	< 0.1	0.6	5.7
164007	62.9	10.5	1.5	27.1	13.0	47.9	27	1.3	12.5	< 0.1	< 1	< 0.1	< 0.1	113	1.3	3.3	0.5	2.5	0.9	1.6	0.3	2.3	49.4
164008	139	23.7	2.0	1.2	54.6	116	111	2.3	0.48	0.1	< 1	0.2	< 0.1	9	10.5	27.2	4.1	19.4	5.8	8.1	1.4	9.6	44.4
164009	88.3	20.0	2.7	9.4	23.2	357	174	8.7	0.61	< 0.1	< 1	< 0.1	< 0.1	77	27.0	64.5	8.6	34.6	7.0	6.2	0.8	4.6	73.0
164010	107	16.4	2.5	6.9	20.4	362	112	5.3	0.54	< 0.1	< 1	< 0.1	< 0.1	79	16.7	41.2	5.3	20.8	4.2	4.5	0.7	4.0	7.1
164011	62.9	18.6	1.9	85.5	12.8	175	121	1.1	0.25	< 0.1	< 1	< 0.1	< 0.1	436	15.0	33.3	4.1	15.7	3.1	3.1	0.4	2.4	32.7
164012	85.9	19.0	25.0	167	26.0	327	105	6.2	78.8	0.2	5	0.4	< 0.1	944	35.7	69.3	7.9	28.3	5.4	5.3	0.8	4.8	2530
164013	81.1	18.1	3.9	3.8	15.6	208	62	0.1	1.56	< 0.1	< 1	< 0.1	< 0.1	23	16.4	36.7	4.6	18.2	3.6	3.5	0.5	3.0	47.0
164014	93.8	18.0	3.3	2.0	21.3	119	43	0.2	0.92	< 0.1	< 1	< 0.1	< 0.1	21	4.0	10.2	1.5	7.2	2.2	3.0	0.5	3.7	109
164015	86.0	15.1	2.5	12.2	11.8	193	64	0.2	0.64	< 0.1	< 1	< 0.1	< 0.1	258	9.3	22.0	2.8	11.0	2.4	2.5	0.4	2.3	11.5
164016	18.9	4.6	2.1	3.8	3.7	51.5	10	0.9	0.68	< 0.1	< 1	0.1	0.2	53	3.9	8.7	1.1	4.5	0.9	0.9	0.1	0.7	17.9
164017	72.3	16.3	2.4	4.0	12.8	137	99	0.6	0.56	< 0.1	< 1	< 0.1	< 0.1	45	12.0	26.9	3.4	13.0	2.7	2.7	0.4	2.5	52.6
164018	81.7	19.9	3.9	36.8	9.7	208	116	0.2	0.31	< 0.1	< 1	< 0.1	< 0.1	310	13.3	28.8	3.5	13.6	2.8	2.5	0.3	1.9	57.2
164019	81.3	17.8	2.0	29.1	10.4	155	82	< 0.1	0.22	< 0.1	< 1	< 0.1	0.1	179	12.1	27.4	3.5	13.5	2.6	2.5	0.3	2.0	93.9
164020	118	23.6	6.0	0.3	15.0	191	24	4.2	0.95	< 0.1	< 1	0.7	0.2	12	3.0	7.7	1.3	6.3	2.0	2.7	0.5	3.4	120
164021	109	21.6	2.6	3.5	22.7	237	141	< 0.1	0.26	< 0.1	< 1	< 0.1	< 0.1	29	16.6	41.2	5.2	20.3	4.2	4.3	0.7	4.2	20.4
164022	99.6	19.7	7.3	13.1	10.2	269	123	5.1	0.72	< 0.1	< 1	0.6	1.3	157	12.6	28.8	3.6	14.0	2.8	2.5	0.3	2.0	78.8
164023	54.1	22.5	6.1	34.8	14.1	301	174	4.4	0.62	< 0.1	1	0.5	0.3	404	17.9	42.2	5.2	20.2	3.9	3.7	0.5	2.8	36.9
164024	106	25.7	2.7	108	42.6	552	108	0.3	0.25	< 0.1	< 1	< 0.1	0.2	685	34.9	79.5	10.4	42.2	8.9	8.9	1.3	8.0	22.3
164025	43.6	14.4	1.9	30.2	8.2	121	85	0.1	0.15	< 0.1	< 1	< 0.1	0.3	157	12.5	27.7	3.4	12.9	2.4	2.1	0.3	1.6	13.6
164051	47.1	7.0	3.5	7.4	5.7	52.6	17	0.1	0.34	< 0.1	< 1	< 0.1	< 0.1	69	1.2	3.0	0.4	2.1	0.7	0.9	0.2	1.0	48.9
164052	7.6	0.5	2.7	0.3	0.2	2.2	< 1	< 0.1	0.24	< 0.1	< 1	< 0.1	< 0.1	1	< 0.1	0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	7.0
164053	113	20.5	21.8	3.2	25.1	140	30	< 0.1	0.20	< 0.1	< 1	0.4	< 0.1	35	4.8	12.0	1.8	8.6	2.6	3.8	0.6	4.3	192
164054	67.0	11.7	5.7	5.2	11.1	80.3	18	< 0.1	0.26	< 0.1	< 1	< 0.1	< 0.1	47	2.1	5.4	0.8	3.7	1.1	1.6	0.3	1.9	93.9
164055	105	15.9	3.6	14.1	15.3	207	28	0.4	0.37	< 0.1	< 1	< 0.1	0.1	109	3.3	7.9	1.2	5.4	1.7	2.4	0.4	2.8	666
164056	33.4	5.1	5.2	7.2	3.0	58.1	6	0.5	0.36	< 0.1	< 1	0.2	< 0.1	53	0.5	1.4	0.2	1.0	0.3	0.5	< 0.1	0.6	15.0
164057	41.1	6.4	3.0	4.1	5.6	42.7	13	0.7	0.31	< 0.1	< 1	0.1	0.2	35	1.1	2.7	0.4	2.0	0.6	0.8	0.1	1.0	29.8
164058	68.4	19.2	2.4	23.9	13.8	291	143	0.5	0.18	< 0.1	< 1	< 0.1	0.2	231	24.6	52.8	6.6	24.5	4.4	3.9	0.5	2.7	17.8
164059	43.2	16.4	9.3	34.3	15.6	215	160	5.6	0.57	< 0.1	< 1	0.3	0.3	35	17.2	41.2	5.4	21.8	4.4	4.1	0.5	3.1	94.7
164060	107	20.4	4.6	13.0	13.0	346	148	6.3	1.34	< 0.1	< 1	0.5	1.0	175	15.2	34.7	4.4	17.2	3.4	3.2	0.4	2.6	68.7
164061	63.9	19.5	10.5	23.6	21.6	318	161	8.0	0.43	< 0.1	1	0.4	< 0.1	196	28.5	68.7	9.3	37.1	7.2	6.4	0.8	4.3	44.5
164062	136	17.1	1080	21.1	24.3	289	93	2.2	2.27	< 0.1	1	0.9	< 0.1	211	24.6	39.9	5.9	23.6	5.3	5.8	0.8	4.9	129
164063	211	17.3	7.8	6.4	13.1	232	102	0.7	0.75	< 0.1	< 1	0.2	< 0.1	75	15.2	34.8	4.5	17.7	3.4	3.3	0.4	2.6	18.1
164064	41.5	5.0	4.6	2.7	5.2	38.0	11	0.5	0.85	< 0.1	< 1	< 0.1	0.1	20	1.0	2.5	0.4	1.9	0.6	0.8	0.1	0.9	47.3
164065	91.2	17.3	2.4	6.1	13.5	308	53	< 0.1	0.20	< 0.1	< 1	< 0.1	0.2	107	10.7	25.3	3.1	12.1	2.6	2.8	0.4	2.6	35.7
164066	87.6	17.9	8.1	39.4	13.3	215	154	1.6	0.57	< 0.1	< 1	0.2	< 0.1	294	20.3	46.6	5.8	22.0	4.0	3.5	0.5	2.6	16.1
164067	23.5	24.6	4.6	35.8	17.7	279	234	12.4	0.49	< 0.1	2	0.2	0.2	146	14.1	39.1	5.0	20.7	4.3	4.1	0.6	3.4	39.6
164068	41.9	21.2	3.0	17.2	22.3	296	217	0.5	0.13	< 0.1	< 1	< 0.1	< 0.1	120	35.0	76.5	9.3	33.9	5.7	5.0	0.7	4.1	12.5

## Results

Analyte Symbol	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	%	%	%
Lower 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
Method Code	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
164001	0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.1	0.002	< 0.05	3.2	< 1	0.2	< 0.1	0.0228	0.024	0.01
164002	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.002	< 0.05	0.6	1	< 0.1	< 0.1	0.0148	0.002	0.01
164003	0.4	0.3	1.9	0.3	< 0.1	< 0.1	0.001	0.29	3.0	15	2.6	0.8	0.564	0.135	0.42
164004	0.2	0.2	1.1	0.2	< 0.1	< 0.1	0.001	0.13	8.1	16	1.9	0.5	0.296	0.077	0.24
164005	0.1	0.2	1.1	0.2	0.2	2.9	0.002	0.19	5.6	15	1.7	0.5	0.460	0.077	1.02
164006	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.1	0.001	< 0.05	3.0	5	0.6	0.2	0.177	0.028	0.03
164007	0.4	0.2	1.3	0.2	< 0.1	0.7	0.030	0.09	0.7	30	0.3	< 0.1	0.390	0.003	0.77
164008	0.4	0.9	5.3	0.9	< 0.1	< 0.1	0.004	< 0.05	6.4	38	1.1	0.3	0.989	0.110	0.18
164009	0.3	0.3	2.0	0.3	0.2	< 0.1	0.001	< 0.05	3.3	23	2.3	0.6	0.757	0.145	0.07
164010	0.4	0.3	1.6	0.3	< 0.1	< 0.1	0.002	< 0.05	4.9	23	1.2	0.4	0.644	0.153	0.03
164011	0.3	0.2	1.1	0.2	< 0.1	< 0.1	0.002	0.43	4.8	17	1.6	0.5	0.278	0.080	0.05
164012	0.4	0.4	2.4	0.3	< 0.1	0.7	0.007	1.03	25.0	14	18.6	5.4	0.426	0.093	0.35
164013	0.3	0.2	1.3	0.2	< 0.1	< 0.1	0.008	< 0.05	3.5	17	2.0	0.6	0.180	0.088	0.03
164014	0.3	0.4	2.1	0.3	< 0.1	< 0.1	0.006	< 0.05	1.5	45	0.8	0.1	0.329	0.023	0.08
164015	0.4	0.2	1.0	0.2	< 0.1	< 0.1	0.012	0.07	1.9	20	1.1	0.3	0.268	0.063	0.03
164016	0.1	< 0.1	0.3	< 0.1	< 0.1	< 0.1	0.009	< 0.05	0.9	4	0.4	0.1	0.149	0.024	< 0.01
164017	0.3	0.2	1.1	0.2	< 0.1	< 0.1	0.009	< 0.05	1.6	19	1.7	0.5	0.378	0.072	0.06
164018	0.3	0.2	0.9	0.1	< 0.1	< 0.1	0.009	0.18	8.0	16	2.3	0.6	0.256	0.057	0.14
164019	0.3	0.2	1.0	0.2	< 0.1	< 0.1	0.013	0.14	3.2	17	1.4	0.4	0.203	0.071	0.03
164020	0.4	0.3	1.9	0.3	0.3	0.2	0.012	< 0.05	2.4	45	0.4	0.1	0.806	0.031	0.15
164021	0.2	0.4	2.0	0.3	< 0.1	< 0.1	0.011	< 0.05	3.1	28	2.1	0.6	0.343	0.148	0.03
164022	0.2	0.2	1.0	0.2	0.2	< 0.1	0.010	0.09	4.4	18	1.5	0.5	0.478	0.060	1.83
164023	0.3	0.2	1.3	0.2	< 0.1	< 0.1	0.013	0.24	5.3	16	2.2	0.7	0.587	0.129	0.70
164024	0.4	0.6	3.4	0.5	< 0.1	< 0.1	0.015	0.52	14.6	20	5.4	1.7	0.284	0.145	0.16
164025	0.4	0.1	0.8	0.1	< 0.1	< 0.1	0.014	0.19	3.2	8	1.6	0.5	0.232	0.058	0.01
164051	0.2	0.1	0.6	0.1	< 0.1	< 0.1	0.011	0.06	1.0	15	0.2	< 0.1	0.246	0.014	0.08
164052	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.015	< 0.05	< 0.5	2	0.1	0.1	0.0046	< 0.001	< 0.01
164053	0.4	0.4	2.5	0.4	< 0.1	< 0.1	0.014	0.06	7.0	46	0.6	0.1	0.394	0.034	0.36
164054	0.4	0.2	1.1	0.2	< 0.1	< 0.1	0.011	< 0.05	1.6	30	0.2	< 0.1	0.301	0.013	0.06
164055	0.4	0.3	1.6	0.3	< 0.1	< 0.1	0.010	0.99	5.6	40	0.3	< 0.1	0.451	0.011	1.09
164056	0.2	< 0.1	0.3	< 0.1	< 0.1	< 0.1	0.012	0.05	1.7	11	< 0.1	< 0.1	0.105	0.004	0.02
164057	0.1	0.1	0.6	< 0.1	< 0.1	0.3	0.010	< 0.05	1.0	15	0.1	< 0.1	0.211	0.009	0.05
164058	0.2	0.2	1.2	0.2	< 0.1	< 0.1	0.009	0.21	6.0	12	2.8	0.8	0.259	0.097	0.07
164059	0.3	0.2	1.5	0.3	< 0.1	6.2	0.013	0.18	4.0	19	1.8	0.5	0.822	0.115	3.01
164060	0.2	0.2	1.2	0.2	0.3	0.8	0.009	0.10	4.4	18	1.9	0.5	0.523	0.095	2.03
164061	0.4	0.3	1.7	0.3	0.2	< 0.1	0.011	0.14	5.2	23	2.0	0.6	0.633	0.147	1.56
164062	0.5	0.3	1.8	0.3	< 0.1	< 0.1	0.013	0.10	7.2	17	4.7	1.5	0.582	0.187	1.62
164063	0.4	0.2	1.2	0.2	< 0.1	< 0.1	0.008	< 0.05	1.7	19	1.7	0.4	0.451	0.072	0.04
164064	0.2	< 0.1	0.5	< 0.1	< 0.1	1.7	0.011	< 0.05	0.6	10	0.1	< 0.1	0.162	0.022	0.07
164065	0.3	0.2	1.2	0.2	< 0.1	< 0.1	0.015	< 0.05	3.8	19	1.4	0.9	0.194	0.064	0.15
164066	0.3	0.2	1.2	0.2	< 0.1	0.2	0.015	0.18	3.7	13	2.2	0.6	0.503	0.101	0.43
164067	0.4	0.3	1.6	0.2	0.5	9.2	0.013	0.14	7.1	16	3.3	2.8	0.880	0.115	1.63
164068	0.3	0.3	2.0	0.3	< 0.1	< 0.1	0.012	0.09	3.9	13	2.7	1.0	0.219	0.097	0.04

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
Lower 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
Method Code	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																							
GXR-1 Cert																							
GXR-1 Meas																							
GXR-1 Cert																							
GXR-4 Meas	10.4	0.51	1.67	5.93	2.72	1.00	0.2	89	44.6	149	2.95	1.1	80	42.4		2.6		3.15	2.38	14.9	1.27	17.5	5.9
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	110	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	35.2	1.52	1.01	7.50	2.57	1.05		36	45.1	885	4.73	0.5		37.5	3.7	3.5	1.3		3.77	19.3	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		
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas	35.3	0.10	0.61	> 10.0	1.81	0.19	0.3	141	72.1	1120	5.70	1.8	110	27.1		1.9		0.30	4.04	14.9	0.57	0.19	0.8
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	68.0	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	28.2	1.21	0.46	5.59	2.29	0.61	5.0	69	70.0	5450	3.20			45.1		3.3		3.16		11.6		1.57	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	4.7							147	181					284						59.7	0.56		
DNC-1a Cert	5.20							148.00	270					247						57.0	0.59		
DNC-1a Meas																							
DNC-1a Cert																							
SBC-1 Meas	163						0.5	215	70.9			2.6		90.1	3.6	4.1	1.3		7.65	23.4	1.75	0.67	
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																							
OREAS 45d (4-Acid) Meas																							
OREAS 45d (4-Acid) Cert																							
164017 Orig	28.6	2.68	3.69	6.14	0.12	3.33	0.2	115	171	619	4.76	2.3	< 10	217	1.4	1.3	0.5	0.09	0.49	31.7	0.82	0.03	0.7
164017 Dup	30.0	2.75	3.84	6.39	0.12	3.41	0.2	106	191	642	4.96	2.2	10	228	1.4	1.3	0.5	0.08	0.52	33.1	0.85	0.04	0.8
164055 Orig	24.7	1.88	4.50	7.10	0.34	9.44	0.3	222	186	1850	9.32	0.7	< 10	115	1.7	1.3	0.6	0.31	5.06	54.7	0.70	0.37	1.5
164055 Split	24.3	1.71	4.15	6.91	0.28	7.64	0.2	214	198	1660	8.61	0.7	< 10	115	1.6	1.0	0.6	0.22	4.27	50.6	0.61	0.32	1.1
164067 Orig	17.7	> 3.00	1.56	7.81	1.33	3.24	0.2	174	23.9	486	4.95	5.2	20	46.5	1.9	1.7	0.7	0.83	1.30	19.9	1.09	0.38	0.8
164067 Dup	17.0	> 3.00	1.56	8.22	1.32	3.20	0.2	169	13.6	467	4.80	4.9	< 10	45.5	1.9	1.9	0.7	0.33	1.32	20.1	1.22	0.39	0.9
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																							
Method Blank																							
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
Lower 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
Method Code	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																							
GXR-1 Cert																							
GXR-1 Meas																							
GXR-1 Cert																							
GXR-4 Meas	70.7	18.8	105	123	14.0	201	42	8.9	310	0.2	6	3.9	0.8	63	54.6	102		36.8	5.5	4.3	0.5	2.6	6540
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	102	24.4	3.0	129		177	27	< 0.1			< 1	< 0.1		625	42.1	86.3		37.9	7.2	6.8	1.0	6.3	31.1
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	30.000
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas	132	35.2	266	85.6	13.4	39.3	84	1.0	0.62	< 0.1	< 1	0.5	< 0.1	1260	12.4	33.4		11.4	2.4	2.3	0.3	2.4	73.3
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	942	20.0	41.0	128	34.3	151		4.0	9.58	1.0	3	3.0	0.6	755	56.7	114							347
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							331.0000
SAR-M (U.S.G.S.) Meas																							
SAR-M (U.S.G.S.) Cert																							
DNC-1a Meas	65.1				17.3	139	38					0.4		101	3.7			4.6					97.6
DNC-1a Cert	70.0				18.0	144.0	38.000					0.96		118	3.6			5.20					100.00
DNC-1a Meas																							
DNC-1a Cert																							
SBC-1 Meas	189	28.4	25.7	128	33.0	177	115	8.3	2.26		2	0.8		451	50.5	103	12.3	44.4	8.6	7.9	1.1	6.6	30.7
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	31.0000
SBC-1 Meas																							
SBC-1 Cert																							
OREAS 45d (4-Acid) Meas																							
OREAS 45d (4-Acid) Cert																							
164017 Orig	70.9	16.0	2.3	4.0	12.6	136	102	0.9	0.65	< 0.1	< 1	< 0.1	< 0.1	44	11.7	26.5	3.3	12.7	2.6	2.7	0.4	2.4	53.2
164017 Dup	73.7	16.7	2.4	4.1	12.9	139	95	0.2	0.47	< 0.1	< 1	< 0.1	0.2	46	12.3	27.4	3.4	13.2	2.8	2.8	0.4	2.5	52.0
164055 Orig	105	15.9	3.6	14.1	15.3	207	28	0.4	0.37	< 0.1	< 1	< 0.1	0.1	109	3.3	7.9	1.2	5.4	1.7	2.4	0.4	2.8	666
164055 Split	102	15.3	2.6	12.6	14.1	192	28	1.0	0.23	< 0.1	< 1	< 0.1	< 0.1	87	2.8	6.8	1.0	4.7	1.5	2.0	0.4	2.5	549
164067 Orig	24.4	24.9	4.9	31.1	16.8	275	239	13.2	0.61	< 0.1	2	0.2	0.3	153	11.7	35.3	4.5	18.9	4.0	3.9	0.5	3.3	39.9
164067 Dup	22.5	24.2	4.2	40.4	18.6	284	229	11.7	0.37	< 0.1	2	0.1	0.1	139	16.4	42.8	5.6	22.5	4.6	4.4	0.6	3.4	39.3
Method Blank	< 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
Method Blank	< 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
Method Blank	< 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
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

QC

Analyte Symbol	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	%	%	%
Lower 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
Method Code	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										2			0.0273	0.059	0.26
GXR-1 Cert										1.58			0.036	0.0650	0.257
GXR-1 Meas										2			0.0269	0.063	0.27
GXR-1 Cert										1.58			0.036	0.0650	0.257
GXR-4 Meas		0.2	0.9	0.1	0.5	33.6		3.12	48.5	8	17.2	6.0	0.290	0.130	1.74
GXR-4 Cert		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
GXR-4 Meas										8			0.290	0.134	1.81
GXR-4 Cert										7.70			0.29	0.120	1.77
SDC-1 Meas		0.5	3.0		< 0.1	< 0.1		0.66	24.8	16	11.3	3.0	0.108	0.055	
SDC-1 Cert		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
SDC-1 Meas										16			0.198	0.054	
SDC-1 Cert										17.00			0.606	0.0690	
GXR-6 Meas		0.2	1.5	0.2	< 0.1	< 0.1		2.24	104	27	5.0	1.5		0.035	0.02
GXR-6 Cert		0.0320	2.40	0.330	0.485	1.90		2.20	101	27.6	5.30	1.54		0.0350	0.0160
GXR-6 Meas										27				0.035	0.02
GXR-6 Cert										27.6				0.0350	0.0160
SAR-M (U.S.G.S.) Meas						0.5		2.65	998	9	16.6	4.5	0.353	0.061	
SAR-M (U.S.G.S.) Cert						9.78		2.7	982	7.83	17.2	3.57	0.38	0.07	
SAR-M (U.S.G.S.) Meas										9			0.299	0.065	
SAR-M (U.S.G.S.) Cert										7.83			0.38	0.07	
DNC-1a Meas			1.8							32			0.276		
DNC-1a Cert			2.0							31			0.29		
DNC-1a Meas										31			0.284		
DNC-1a Cert										31			0.29		
SBC-1 Meas		0.5	3.1	0.5	0.4	0.4		0.90	36.2	20	15.4	6.2	0.483		
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										21			0.536		
SBC-1 Cert										20.0			0.51		
OREAS 45d (4-Acid) Meas										53			0.134	0.032	0.09
OREAS 45d (4-Acid) Cert										49.30			0.773	0.042	0.049
164017 Orig	0.3	0.2	1.1	0.2	< 0.1	< 0.1	0.008	< 0.05	1.6	18	1.6	0.4	0.415	0.073	0.06
164017 Dup	0.3	0.2	1.1	0.2	< 0.1	< 0.1	0.009	< 0.05	1.7	19	1.7	0.5	0.341	0.072	0.05
164055 Orig	0.4	0.3	1.6	0.3	< 0.1	< 0.1	0.010	0.99	5.6	40	0.3	< 0.1	0.451	0.011	1.09
164055 Split	0.5	0.2	1.5	0.2	< 0.1	0.3	0.009	0.68	4.6	41	0.3	< 0.1	0.463	0.015	1.10
164067 Orig	0.4	0.3	1.5	0.3	0.7	9.8	0.016	0.14	7.0	16	2.9	0.7	0.866	0.114	1.60
164067 Dup	0.3	0.3	1.6	0.2	0.4	8.6	0.010	0.14	7.2	16	3.6	4.9	0.895	0.115	1.67
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
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										< 1			0.0006	< 0.001	< 0.01
Method Blank										< 1			< 0.0005	< 0.001	< 0.01
Method Blank										< 1			< 0.0005	< 0.001	< 0.01



**Date Submitted:** 10-Oct-14  
**Invoice No.:** A14-07530-Au  
**Invoice Date:** 20-Oct-14  
**Your Reference:** PN 243

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

ATTN: Alan Smith

## CERTIFICATE OF ANALYSIS

78 Rock samples were submitted for analysis.

The following analytical package was requested:

Code 1A2-Sudbury Au - Fire Assay AA

REPORT **A14-07530-Au**

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 over a horizontal line.

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
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
164026	< 5
164027	< 5
164028	24
164029	25
164030	18
164031	12
164032	36
164033	36
164034	< 5
164035	6
164036	1020
164037	8
164038	< 5
164039	7
164040	11
164041	19
164042	< 5
164043	9
164044	360
164045	856
164046	18
164047	6
164048	< 5
164049	17
164050	6
164151	9
164152	5
164153	5
164154	29
164069	6
164070	14
164071	749
164072	7
164073	10
164074	< 5
164075	< 5
164076	< 5
164077	7
164078	< 5
164079	< 5
164080	10
164081	< 5
164082	< 5
164083	< 5
164084	< 5
164085	14
164086	1460
164087	< 5
164088	5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
164089	10
164090	< 5
164091	< 5
164092	9
164093	22
164094	< 5
164095	13
164096	97
164097	8
164098	12
164099	159
164100	28
164101	11
164102	23
164103	9
164104	19
164105	791
164106	23
164107	< 5
164108	12
164109	1020
164110	< 5
164111	412
164112	1470
164113	46
164114	21
164115	5
164116	1100
164117	11



## QC

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
OxD108 Meas	408
OxD108 Cert	414.000
OxD108 Meas	418
OxD108 Cert	414.000
OxD108 Meas	423
OxD108 Cert	414.000
SG66 Meas	1090
SG66 Cert	1090
SG66 Meas	1100
SG66 Cert	1090
SG66 Meas	1060
SG66 Cert	1090
164035 Orig	6
164035 Dup	6
164045 Orig	822
164045 Dup	890
164069 Orig	6
164069 Split	10
164069 Orig	6
164069 Dup	7
164083 Orig	< 5
164083 Dup	< 5
164089 Orig	10
164089 Split	16
164093 Orig	20
164093 Dup	24
164099 Orig	159
164099 Split	221
164103 Orig	9
164103 Dup	9
164116 Orig	1100
164116 Dup	1100
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5



**Date Submitted:** 10-Oct-14  
**Invoice No.:** A14-07530-UT6  
**Invoice Date:** 30-Oct-14  
**Your Reference:** PN 243

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

ATTN: Alan Smith

## CERTIFICATE OF ANALYSIS

78 Rock samples were submitted for analysis.

The following analytical package was requested:

Code 1A2-Sudbury Au - Fire Assay AA

REPORT **A14-07530-UT6**

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", is written over a horizontal line.

Emmanuel Esemé , Ph.D.  
Quality Control





**Date Submitted:** 10-Oct-14  
**Invoice No.:** A14-07530-UT6  
**Invoice Date:** 30-Oct-14  
**Your Reference:** PN 243

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

ATTN: Alan Smith

## CERTIFICATE OF ANALYSIS

78 Rock samples were submitted for analysis.

The following analytical package was requested:

Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A14-07530-UT6**

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 over a horizontal line.

Emmanuel Esemé , Ph.D.  
Quality Control



## 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
Lower 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
Method Code	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
164026	8.4	1.82	2.68	6.04	0.19	3.33	0.1	273	16.9	2180	16.6	< 0.1	< 10	28.4	2.1	0.4	0.7	0.06	1.76	28.2	0.88	1.14	1.1
164027	14.2	2.08	4.18	6.32	0.24	5.41	0.3	389	29.2	2640	12.8	1.0	< 10	72.6	2.2	0.4	0.7	0.14	1.96	53.0	0.90	0.16	0.9
164028	11.7	1.39	3.49	6.23	0.19	5.24	0.5	305	15.9	2490	14.7	0.7	< 10	72.2	2.8	0.4	1.0	0.26	1.24	65.9	1.00	0.09	1.1
164029	21.5	0.09	2.57	4.87	0.16	0.65	0.2	130	112	1830	17.1	1.0	< 10	98.9	0.9	0.5	0.3	0.25	1.35	38.8	0.56	0.06	1.2
164030	2.0	0.10	1.51	2.88	0.04	1.63	0.1	129	70.8	1470	17.2	0.6	< 10	71.1	0.9	0.3	0.3	0.14	0.76	32.2	0.77	0.10	1.6
164031	< 0.5	0.01	0.83	0.09	< 0.01	0.10	< 0.1	14	37.2	1560	16.5	< 0.1	< 10	9.9	0.3	0.2	0.1	0.05	0.11	2.6	0.40	0.07	0.7
164032	6.2	0.09	2.43	3.65	0.11	2.06	0.3	131	98.4	1830	23.5	0.8	< 10	64.3	1.2	0.3	0.4	0.32	0.70	43.0	0.93	0.14	2.2
164033	< 0.5	0.02	0.64	0.37	0.02	0.30	< 0.1	23	32.2	1260	9.88	< 0.1	< 10	23.2	0.7	0.1	0.3	0.14	0.17	9.7	0.79	0.21	1.3
164034	0.6	0.01	0.16	0.27	0.03	0.28	< 0.1	14	8.1	404	2.36	< 0.1	< 10	6.8	0.3	0.2	< 0.1	< 0.05	1.89	3.5	0.21	0.02	0.4
164035	1.4	0.02	1.30	1.54	0.03	0.27	0.1	40	22.1	1680	14.5	0.6	< 10	21.4	0.7	0.5	0.2	0.06	1.17	6.8	0.60	0.04	0.6
164036	6.4	2.04	3.67	6.08	0.67	5.10	0.1	57	174	2710	10.6	1.0	< 10	148	2.1	1.2	0.8	0.14	2.06	42.9	1.56	0.06	1.2
164037	95.4	0.47	2.12	7.67	0.74	1.37	0.1	204	197	1580	13.9	0.8	< 10	156	1.7	1.1	0.6	0.09	1.67	60.6	0.59	0.05	1.0
164038	13.1	1.42	3.52	6.09	0.30	5.40	0.1	263	24.5	2120	14.1	0.8	< 10	48.9	3.4	0.4	1.1	< 0.05	0.52	57.9	1.10	0.02	0.8
164039	12.4	0.92	3.92	4.85	0.10	8.30	0.1	229	98.7	1720	10.3	0.4	< 10	66.8	2.8	0.2	1.0	< 0.05	0.43	42.5	0.78	0.04	0.6
164040	9.8	1.93	2.73	5.50	0.48	4.66	< 0.1	211	63.8	1250	10.1	0.5	< 10	57.7	2.2	0.6	0.7	0.20	0.59	82.6	0.77	2.77	1.6
164041	1.1	0.01	1.06	0.60	< 0.01	2.94	0.1	20	16.4	1450	17.5	< 0.1	< 10	29.6	0.8	0.6	0.3	0.14	0.15	10.0	0.59	0.21	0.8
164042	22.9	0.09	0.81	4.70	0.13	0.98	0.1	79	147	1790	8.45	1.9	< 10	33.3	1.1	0.6	0.4	0.12	0.67	11.1	0.77	0.02	0.6
164043	0.6	0.10	2.06	0.61	0.04	0.53	0.2	50	8.3	2050	28.7	0.2	< 10	39.0	1.1	0.5	0.4	0.07	0.19	12.9	0.63	0.08	1.0
164044	0.5	0.08	3.00	1.66	0.03	3.17	1.3	49	26.3	8200	26.7	0.6	< 10	68.4	2.3	0.2	0.7	0.17	0.18	31.1	0.56	0.27	5.6
164045	< 0.5	0.02	1.77	0.19	0.04	2.22	0.2	14	13.9	1860	23.7	< 0.1	< 10	12.9	0.6	0.5	0.2	0.16	0.81	9.0	0.43	0.12	1.1
164046	< 0.5	0.06	1.91	0.77	0.03	2.19	0.2	37	14.4	2770	17.8	0.2	< 10	45.9	0.9	0.4	0.3	< 0.05	0.20	21.5	0.74	0.09	0.9
164047	30.5	0.63	2.25	7.98	0.56	2.95	0.1	118	82.3	1630	7.99	3.6	< 10	90.7	1.2	0.8	0.4	0.30	1.83	22.7	0.86	0.17	0.9
164048	16.8	> 3.00	1.73	8.76	1.60	4.39	0.2	82	20.6	1090	6.83	1.6	< 10	16.4	4.2	2.7	1.6	0.08	1.25	22.6	1.85	0.04	1.0
164049	11.3	0.11	2.13	6.34	0.06	1.82	0.4	56	51.8	1270	15.0	2.6	< 10	61.8	1.0	0.5	0.4	0.32	0.30	28.7	1.26	0.27	2.2
164050	1.0	0.10	1.76	1.05	0.06	2.06	0.2	38	20.0	1210	31.4	0.6	< 10	14.1	1.1	1.1	0.4	0.06	4.75	5.0	0.78	0.03	0.2
164151	0.7	< 0.01	0.34	0.70	0.01	0.06	0.5	105	33.9	278	9.00	< 0.1	< 10	46.1	0.5	0.1	0.2	0.43	0.21	35.1	0.18	0.17	6.1
164152	16.3	> 3.00	1.78	9.14	1.67	4.68	0.1	131	22.2	1170	7.14	3.0	< 10	17.2	4.5	2.8	1.6	0.34	1.18	23.5	1.93	0.03	1.6
164153	12.1	0.74	0.31	3.84	0.29	0.11	< 0.1	78	118	479	2.31	0.4	< 10	70.9	0.4	0.5	0.2	< 0.05	0.45	33.3	0.34	0.02	0.2
164154	22.3	0.46	2.27	7.07	0.25	0.59	0.1	176	53.4	638	21.7	2.8	< 10	101	3.8	1.0	1.3	< 0.05	3.13	55.6	2.32	< 0.02	0.9
164069	8.8	2.98	1.28	6.22	0.43	2.81	0.1	107	60.7	309	5.17	3.7	< 10	41.1	1.4	0.7	0.5	0.24	0.74	7.8	0.89	0.39	1.1
164070	20.4	2.07	1.91	6.93	0.78	3.62	< 0.1	177	93.4	716	6.53	2.3	< 10	101	1.3	0.9	0.4	0.17	1.54	28.7	0.80	0.34	1.8
164071	15.2	0.45	1.20	5.36	1.20	0.38	1.5	86	87.6	717	6.08	2.5	10	95.3	1.0	0.4	0.4	1.69	1.30	27.6	0.71	1.22	1.3
164072	13.6	> 3.00	2.09	7.01	0.45	3.29	0.1	66	103	752	4.68	2.0	10	97.1	1.3	0.6	0.5	0.11	0.91	20.3	1.12	0.12	1.1
164073	18.4	2.92	1.04	8.16	1.89	1.00	< 0.1	118	51.8	372	4.10	3.5	< 10	58.2	1.4	0.6	0.5	0.26	2.45	20.9	1.14	0.14	0.9
164074	15.8	2.90	1.67	8.63	1.61	4.33	0.1	84	28.9	1070	6.80	2.4	< 10	17.9	4.2	2.6	1.5	0.12	1.30	23.3	1.92	0.07	1.3
164075	9.4	0.15	1.30	1.20	0.04	1.09	< 0.1	19	47.6	487	3.08	0.2	< 10	21.9	0.4	0.2	0.1	< 0.05	0.15	7.2	0.34	0.03	< 0.1
164076	12.8	> 3.00	1.41	7.05	0.23	2.66	0.1	92	49.6	498	4.08	2.8	< 10	25.2	2.0	1.1	0.7	0.28	0.48	13.4	1.17	0.13	1.1
164077	26.9	2.38	3.11	6.69	0.18	3.61	0.1	144	44.0	2630	13.6	1.4	< 10	52.5	5.8	0.8	2.0	0.06	0.37	52.8	1.97	0.07	1.3
164078	31.8	1.76	4.25	7.73	0.13	6.80	0.1	240	170	1970	11.9	1.0	< 10	114	2.7	0.4	0.9	0.08	0.44	56.0	0.84	0.08	0.9
164079	45.0	> 3.00	2.75	7.38	0.24	0.73	< 0.1	39	55.7	485	4.63	1.5	< 10	67.9	1.2	0.6	0.4	0.05	0.60	20.2	0.94	0.02	0.1
164080	50.1	1.09	1.77	7.04	1.61	2.90	0.2	103	44.1	790	4.73	2.9	< 10	57.9	1.3	0.7	0.5	0.25	3.62	16.1	0.96	0.54	2.5
164081	73.0	2.42	4.14	6.02	0.20	0.34	< 0.1	102	76.9	1010	7.67	0.9	< 10	59.6	1.4	0.7	0.5	< 0.05	1.40	54.9	0.50	0.13	0.5
164082	6.3	0.32	1.48	1.92	0.05	1.50	< 0.1	73	111	530	3.53	< 0.1	< 10	42.1	0.3	< 0.1	0.1	< 0.05	0.54	15.4	0.14	0.08	< 0.1
164083	2.5	0.08	0.29	0.30	0.01	0.53	< 0.1	10	43.0	196	1.05	< 0.1	< 10	6.9	0.2	0.1	< 0.1	< 0.05	0.10	3.6	0.14	0.05	0.2
164084	3.0	0.10	0.68	0.70	0.02	0.74	< 0.1	26	57.8	270	1.90	< 0.1	< 10	17.0	0.1	< 0.1	< 0.1	< 0.05	0.11	7.2	< 0.05	0.07	< 0.1
164085	1.7	< 0.01	0.16	0.30	0.04	< 0.01	< 0.1	9	51.8	267	11.7	0.2	< 10	44.0	0.3	< 0.1	0.1	0.16	0.13	32.7	0.13	0.70	2.6
164086	28.9	2.08	1.83	5.99	2.21	2.75	< 0.1	161	50.7	630	8.65	1.2	20	24.7	1.5	1.1	0.5	2.49	1.83	23.8	0.70	4.51	11.6
164087	< 0.5	< 0.01	0.57	0.08	0.01	0.08	< 0.1	39	49.4	2370	15.4	< 0.1	< 10	13.1	0.3	0.1	0.1	0.06	0.18	5.6	0.22	0.05	0.4
164088	22.7	0.54	0.77	6.16	0.93	0.08	< 0.1	95	245	1140	6.43	0.9	< 10	106	0.5	1.3	0.2	< 0.05	0.81	33.6	0.80	0.04	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
Lower 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
Method Code	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
164089	< 0.5	< 0.01	0.22	0.18	0.02	0.06	< 0.1	7	29.2	369	3.77	< 0.1	< 10	7.0	0.2	0.1	< 0.1	< 0.05	0.12	1.9	0.17	0.05	0.9
164090	2.4	0.12	0.12	1.53	0.07	0.02	< 0.1	60	93.5	357	1.80	0.2	10	15.5	0.2	0.2	< 0.1	< 0.05	0.32	5.7	0.09	< 0.02	0.3
164091	< 0.5	< 0.01	0.17	0.10	< 0.01	0.07	0.1	19	43.9	554	4.89	< 0.1	< 10	19.2	0.2	< 0.1	< 0.1	0.19	0.05	15.6	0.27	0.12	2.1
164092	9.4	0.09	1.12	3.77	0.47	1.00	< 0.1	115	195	2730	14.1	0.7	< 10	48.7	1.5	1.5	0.7	0.16	1.10	28.3	2.46	0.16	1.1
164093	0.6	0.02	0.90	0.37	0.07	0.46	< 0.1	9	25.8	1930	17.1	< 0.1	< 10	21.1	0.3	0.6	< 0.1	0.08	4.75	4.2	0.25	0.08	1.3
164094	< 0.5	0.01	0.71	0.09	0.01	0.41	< 0.1	7	43.5	1630	15.2	< 0.1	< 10	10.3	0.4	0.4	0.2	0.06	0.49	3.2	0.57	0.07	0.5
164095	3.1	< 0.01	0.57	1.32	0.02	0.14	6.1	77	50.1	387	9.48	< 0.1	20	46.9	0.5	< 0.1	0.1	0.60	0.22	32.5	0.16	0.17	5.9
164096	< 0.5	< 0.01	0.36	0.07	< 0.01	0.12	< 0.1	7	35.7	229	8.46	< 0.1	< 10	17.7	0.2	0.4	< 0.1	0.06	0.26	9.7	0.16	0.06	0.2
164097	30.6	0.56	1.28	> 10.0	0.46	2.22	0.2	135	125	3810	12.4	5.1	50	38.9	1.4	1.2	0.5	0.43	2.06	19.3	1.11	0.14	0.4
164098	< 0.5	0.02	1.08	0.19	0.02	0.65	0.2	54	39.7	877	9.23	< 0.1	< 10	24.6	0.9	0.2	0.3	0.15	0.07	16.6	0.37	0.09	1.6
164099	41.8	0.64	1.83	8.27	1.13	1.78	0.1	163	61.8	1880	14.2	2.1	< 10	42.7	3.8	1.7	1.4	0.24	4.25	27.6	2.04	0.05	1.3
164100	36.3	0.85	2.32	7.46	0.54	1.00	0.2	222	75.6	2780	20.4	1.6	< 10	68.5	4.2	0.8	1.5	0.26	1.81	48.3	1.77	0.06	1.4
164101	0.8	0.01	1.33	1.19	0.08	0.12	< 0.1	38	30.3	886	20.0	0.6	< 10	11.9	0.3	0.2	0.1	0.13	0.75	6.7	0.24	0.09	0.2
164102	1.7	0.06	2.44	0.58	0.03	2.72	0.2	95	34.9	2300	14.1	0.4	< 10	38.0	0.5	0.3	0.2	0.08	0.36	15.9	0.25	0.07	0.6
164103	22.5	0.27	2.01	5.85	0.98	0.88	0.3	105	74.1	669	8.12	2.8	< 10	56.8	1.2	1.3	0.4	0.26	1.49	29.8	0.93	0.18	0.9
164104	11.7	0.65	2.89	4.49	0.13	1.74	0.2	68	46.2	1570	21.3	2.0	< 10	62.0	1.4	1.0	0.5	0.20	2.23	21.5	1.22	0.13	1.6
164105	< 0.5	< 0.01	0.76	0.14	0.02	0.14	< 0.1	5	28.7	613	9.75	< 0.1	< 10	6.4	0.3	0.4	0.1	< 0.05	0.74	1.8	0.69	0.03	0.4
164106	34.3	1.03	1.66	8.81	0.79	4.55	0.2	116	81.9	1110	5.74	4.2	30	41.5	1.5	1.8	0.5	0.33	2.09	14.8	1.11	0.22	0.9
164107	2.7	0.03	0.75	0.70	0.08	1.28	0.3	15	59.5	735	23.1	< 0.1	< 10	6.5	0.7	1.2	0.3	< 0.05	2.01	4.8	0.95	0.06	0.5
164108	17.3	0.25	2.18	3.45	0.17	1.75	0.2	51	113	1230	8.50	3.9	< 10	54.3	2.1	0.6	0.7	0.61	1.07	23.8	1.01	0.39	1.4
164109	16.0	0.29	0.73	4.08	0.96	0.17	< 0.1	101	238	1220	6.78	0.7	< 10	27.4	0.9	1.2	0.3	0.59	0.92	18.0	0.59	0.30	0.2
164110	45.2	1.06	2.11	8.35	1.29	1.51	0.1	284	80.8	4610	14.4	1.4	< 10	50.7	2.5	1.6	0.8	0.14	1.77	25.3	0.92	0.26	1.6
164111	3.0	0.02	0.81	1.12	0.07	0.18	< 0.1	23	24.5	1590	10.7	0.5	< 10	23.1	0.7	0.3	0.3	0.26	1.84	19.8	0.34	0.20	1.9
164112	16.2	2.03	1.86	6.26	2.73	2.84	< 0.1	163	60.9	634	8.56	1.4	30	24.5	1.6	1.3	0.6	2.76	1.88	24.1	0.76	4.93	12.0
164113	10.2	0.21	0.80	1.56	0.11	0.19	0.2	66	99.2	1180	13.2	0.2	< 10	65.3	0.6	0.4	0.2	0.68	0.15	61.6	0.18	0.38	4.7
164114	8.1	0.23	0.78	1.44	0.10	0.08	2.3	20	50.2	1300	19.9	0.5	< 10	79.1	0.6	0.3	0.2	0.90	0.15	59.1	0.35	1.48	4.6
164115	0.9	0.02	1.88	1.25	0.18	0.45	0.1	16	46.2	1950	16.7	0.5	< 10	18.0	0.4	0.6	0.1	0.08	7.09	5.0	0.42	0.05	0.9
164116	16.5	0.70	5.19	6.60	0.69	8.79	0.3	279	126	1610	10.3	1.2	< 10	80.7	2.3	0.9	0.8	1.40	0.89	35.1	1.06	5.49	1.4
164117	< 0.5	0.01	0.97	0.49	0.01	0.31	< 0.1	23	39.1	1530	12.4	0.2	< 10	39.2	0.5	0.3	0.2	0.06	0.71	13.2	0.30	0.08	0.4

## 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
Lower 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
Method Code	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
164026	108	20.6	2.5	6.3	18.5	110	5	< 0.1	0.45	< 0.1	< 1	< 0.1	< 0.1	56	3.9	9.6	1.4	6.6	2.1	2.9	0.5	3.4	228
164027	128	18.8	3.5	20.2	18.9	129	36	0.7	0.26	< 0.1	< 1	< 0.1	< 0.1	45	3.3	8.5	1.3	6.4	2.0	3.1	0.5	3.4	142
164028	148	19.7	0.3	10.2	24.8	60.8	27	0.2	0.20	< 0.1	< 1	< 0.1	< 0.1	51	4.4	11.2	1.7	8.5	2.7	3.9	0.7	4.4	437
164029	240	12.4	2.9	7.0	8.4	15.8	46	2.1	1.20	< 0.1	< 1	< 0.1	0.1	50	4.6	9.9	1.3	5.1	1.2	1.4	0.2	1.4	91.4
164030	129	9.0	3.1	1.3	9.1	14.2	24	1.3	6.10	< 0.1	< 1	< 0.1	0.3	8	4.0	8.9	1.1	4.8	1.2	1.6	0.2	1.5	140
164031	47.9	1.3	2.9	0.5	3.5	7.1	4	< 0.1	1.21	< 0.1	< 1	< 0.1	0.1	6	1.9	3.9	0.5	1.9	0.4	0.5	< 0.1	0.5	26.1
164032	146	10.0	3.4	4.5	11.3	21.7	37	1.5	5.20	< 0.1	< 1	< 0.1	0.2	13	3.6	8.0	1.0	4.6	1.3	1.7	0.3	1.9	242
164033	43.8	1.7	1.3	0.6	7.5	23.5	4	0.1	4.43	< 0.1	< 1	0.1	0.3	4	5.4	11.3	1.4	5.8	1.2	1.6	0.2	1.4	91.7
164034	13.7	0.9	3.6	2.2	3.0	7.5	5	0.2	0.25	< 0.1	< 1	0.1	< 0.1	11	2.4	2.9	0.5	1.9	0.4	0.5	< 0.1	0.4	22.3
164035	98.2	4.5	2.9	2.2	6.9	11.3	30	1.0	0.79	< 0.1	< 1	0.1	< 0.1	9	4.3	8.8	1.1	4.3	0.9	1.1	0.2	1.1	20.0
164036	132	17.4	377	21.6	20.9	329	40	1.5	0.49	< 0.1	1	0.2	< 0.1	354	19.3	35.1	4.9	20.3	4.8	5.5	0.8	4.4	86.0
164037	135	18.0	3.6	20.9	14.0	71.9	29	0.1	0.12	< 0.1	< 1	< 0.1	< 0.1	156	2.7	7.5	1.2	6.1	2.0	2.4	0.4	2.6	378
164038	125	18.8	0.8	6.9	28.7	95.7	33	< 0.1	0.18	< 0.1	< 1	< 0.1	< 0.1	48	4.5	12.2	1.9	9.5	3.0	4.5	0.8	5.2	236
164039	82.0	12.5	0.7	3.4	27.1	101	15	0.2	0.07	< 0.1	< 1	< 0.1	< 0.1	17	5.4	13.4	1.9	9.5	2.9	4.3	0.7	4.5	95.5
164040	99.3	15.6	1.4	12.7	18.8	129	17	1.3	0.17	< 0.1	< 1	< 0.1	0.3	116	3.5	9.1	1.4	7.1	2.2	3.1	0.5	3.4	67.3
164041	80.3	4.5	1.1	0.3	8.2	43.8	7	0.2	4.18	< 0.1	< 1	0.1	0.1	2	3.3	6.6	0.8	3.3	0.8	1.1	0.2	1.2	98.0
164042	86.6	12.3	4.1	6.4	10.7	24.8	99	3.2	1.19	< 0.1	< 1	0.1	< 0.1	15	7.7	17.3	2.1	8.3	1.7	1.9	0.3	1.7	7.4
164043	134	3.3	2.6	1.1	10.5	42.0	13	0.4	0.31	< 0.1	< 1	0.1	0.2	12	4.0	7.3	0.9	3.7	0.9	1.3	0.2	1.6	14.7
164044	557	6.3	2.7	0.3	18.1	5.9	31	1.0	1.84	0.2	< 1	0.1	0.4	3	2.7	6.9	1.0	4.5	1.4	2.1	0.4	3.2	531
164045	76.2	1.5	2.1	2.0	6.1	8.1	3	< 0.1	0.42	< 0.1	< 1	0.4	0.2	10	2.6	4.6	0.6	2.3	0.5	0.8	0.1	0.8	60.9
164046	92.3	3.3	1.0	1.0	8.8	11.8	9	0.4	0.50	< 0.1	< 1	< 0.1	0.2	8	2.6	5.6	0.8	3.3	1.0	1.4	0.2	1.5	71.0
164047	100	19.4	3.4	18.3	11.0	193	146	6.5	0.44	< 0.1	1	0.8	0.2	87	15.8	33.6	4.1	15.3	2.9	2.7	0.4	2.0	82.4
164048	115	23.9	0.7	102	40.4	562	72	1.3	0.11	< 0.1	< 1	< 0.1	< 0.1	643	29.2	68.8	9.7	39.7	9.0	9.1	1.3	7.8	26.4
164049	345	16.8	2.0	2.4	9.3	86.3	91	5.3	1.15	0.2	1	0.2	0.5	14	15.0	31.4	3.8	14.7	2.8	2.8	0.4	2.0	247
164050	73.9	4.5	1.5	5.3	11.3	21.5	27	1.0	1.80	< 0.1	< 1	0.2	< 0.1	5	4.9	10.1	1.3	4.9	1.1	1.5	0.2	1.6	14.6
164151	51.0	3.1	12.1	0.9	4.2	3.6	6	0.1	1.49	< 0.1	< 1	0.8	0.4	3	1.8	4.2	0.6	2.6	0.6	0.8	0.1	0.9	935
164152	121	25.3	1.2	97.3	43.3	568	131	10.6	0.57	< 0.1	2	< 0.1	0.1	638	32.2	75.1	10.2	43.1	9.8	9.9	1.4	8.5	24.8
164153	7.2	8.6	26.8	9.1	3.7	106	19	0.3	0.12	< 0.1	< 1	< 0.1	< 0.1	37	2.5	6.3	0.9	4.2	1.1	1.1	0.1	0.8	26.3
164154	221	27.1	0.4	10.5	31.5	192	112	0.3	< 0.05	< 0.1	< 1	< 0.1	< 0.1	57	17.2	43.6	6.4	29.7	7.5	7.7	1.1	6.6	14.3
164069	33.6	18.0	3.9	10.8	12.4	223	162	7.9	0.82	< 0.1	1	0.2	0.1	242	11.2	25.7	3.4	13.7	2.8	2.8	0.4	2.4	4.7
164070	48.7	18.6	3.4	25.5	11.4	233	104	4.6	2.19	< 0.1	< 1	0.1	< 0.1	229	9.9	23.3	3.0	12.5	2.6	2.5	0.4	2.2	17.8
164071	891	13.9	3.8	34.2	9.3	50.0	111	5.4	0.88	0.2	1	0.2	1.3	195	16.5	37.8	4.9	18.9	3.1	2.5	0.3	1.9	541
164072	62.4	16.8	2.2	16.3	12.5	261	84	2.2	0.31	< 0.1	< 1	< 0.1	< 0.1	139	16.5	39.0	5.0	19.5	3.7	3.4	0.5	2.5	69.8
164073	24.6	20.8	7.0	60.0	13.0	146	154	6.6	0.81	< 0.1	1	0.7	< 0.1	269	18.2	41.9	5.3	20.8	3.9	3.7	0.5	2.7	48.9
164074	120	24.3	3.4	103	39.1	573	103	1.3	0.29	< 0.1	1	< 0.1	< 0.1	724	33.1	74.5	10.2	42.5	9.4	9.4	1.4	7.9	25.2
164075	27.6	6.6	1.7	1.7	3.7	8.6	10	0.5	0.21	< 0.1	< 1	0.1	< 0.1	11	3.2	6.0	0.7	3.0	0.6	0.7	0.1	0.6	58.5
164076	39.2	18.7	2.8	7.8	18.9	295	125	5.2	1.54	< 0.1	< 1	0.1	< 0.1	101	20.5	48.7	6.3	25.0	4.7	4.5	0.6	3.6	70.6
164077	184	22.7	1.6	6.0	49.9	132	53	0.2	0.10	0.1	< 1	< 0.1	< 0.1	62	10.2	27.6	4.2	20.1	6.2	8.3	1.4	9.4	72.0
164078	114	19.0	1.8	4.2	23.6	117	39	< 0.1	0.30	< 0.1	< 1	0.9	< 0.1	36	3.7	9.7	1.5	7.6	2.5	3.5	0.6	4.1	131
164079	88.8	17.0	0.9	9.8	11.9	79.8	69	0.9	0.05	< 0.1	< 1	< 0.1	< 0.1	46	8.6	23.3	3.3	14.1	2.9	2.9	0.4	2.2	3.8
164080	103	17.9	6.1	58.3	11.9	145	135	4.1	0.72	< 0.1	< 1	0.3	0.4	469	15.1	33.8	4.3	17.1	3.2	3.1	0.4	2.3	30.8
164081	112	17.8	3.6	9.2	13.7	18.9	37	0.7	< 0.05	< 0.1	< 1	< 0.1	< 0.1	98	7.1	17.4	2.3	9.3	2.1	2.6	0.4	2.3	26.0
164082	48.3	5.0	1.2	2.1	2.9	33.2	5	0.3	3.22	< 0.1	< 1	< 0.1	< 0.1	15	0.4	1.0	0.1	0.7	0.3	0.4	< 0.1	0.5	87.3
164083	16.0	0.9	3.9	0.6	2.5	9.1	< 1	< 0.1	1.53	< 0.1	< 1	0.2	< 0.1	4	0.2	0.7	0.1	0.8	0.3	0.5	< 0.1	0.5	15.4
164084	21.6	2.0	5.8	0.8	1.0	8.3	2	< 0.1	0.87	< 0.1	< 1	0.2	< 0.1	7	< 0.1	0.3	< 0.1	0.2	< 0.1	0.1	< 0.1	0.1	22.0
164085	34.9	1.8	28.2	1.1	3.0	2.0	12	0.5	1.62	< 0.1	< 1	0.5	0.3	16	1.4	2.8	0.3	1.2	0.3	0.5	0.1	0.6	42.0
164086	111	15.9	6.1	59.5	14.0	448	51	5.5	592	0.7	9	1.0	0.4	530	11.3	22.0	2.7	10.8	2.5	2.7	0.4	2.5	> 10000
164087	48.1	0.7	2.0	0.7	3.0	3.7	2	< 0.1	3.48	< 0.1	< 1	0.2	0.1	2	2.2	4.3	0.6	2.5	0.6	0.7	< 0.1	0.6	77.3
164088	48.1	14.2	10.8	27.7	3.7	123	40	< 0.1	0.75	< 0.1	< 1	< 0.1	< 0.1	150	6.0	14.6	2.1	9.0	2.1	1.7	0.2	1.0	17.7

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
Lower 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
Method Code	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
164089	22.8	1.1	2.3	1.2	1.8	6.2	2	< 0.1	2.05	< 0.1	< 1	< 0.1	< 0.1	2	0.9	1.8	0.2	0.8	0.2	0.3	< 0.1	0.3	12.3
164090	5.1	3.1	2.2	3.8	1.5	14.1	10	0.4	0.38	< 0.1	< 1	< 0.1	0.1	7	0.8	1.8	0.3	1.1	0.3	0.3	< 0.1	0.3	13.0
164091	38.2	0.5	3.4	0.3	2.3	2.9	< 1	< 0.1	0.68	< 0.1	< 1	0.1	0.2	< 1	1.2	2.8	0.4	1.7	0.5	0.6	< 0.1	0.4	313
164092	79.5	12.0	2.8	11.2	16.9	87.2	32	2.6	1.54	< 0.1	< 1	< 0.1	0.3	300	8.0	17.4	2.4	12.0	4.1	5.7	0.8	4.4	43.7
164093	58.6	1.5	5.5	5.3	2.6	9.6	3	< 0.1	0.63	< 0.1	< 1	0.1	< 0.1	7	1.3	2.5	0.3	1.2	0.3	0.3	< 0.1	0.4	37.0
164094	52.2	0.8	2.5	1.1	4.2	23.0	2	< 0.1	1.17	< 0.1	< 1	0.1	0.1	3	2.3	4.6	0.6	2.5	0.6	0.9	0.1	0.8	33.0
164095	1000	5.0	3.8	0.7	3.3	3.8	4	< 0.1	0.67	< 0.1	< 1	< 0.1	0.2	5	1.5	3.4	0.4	2.0	0.5	0.7	0.1	0.6	867
164096	26.2	0.8	1.1	0.3	2.0	2.9	10	< 0.1	0.59	< 0.1	< 1	0.1	0.2	< 1	0.7	1.4	0.2	0.7	0.2	0.2	< 0.1	0.2	62.4
164097	178	24.7	10.5	15.0	12.6	134	221	8.8	2.19	< 0.1	2	0.6	0.1	64	14.7	31.8	3.8	14.8	2.9	2.9	0.4	2.4	20.6
164098	89.8	1.2	2.1	0.7	8.2	3.5	6	0.2	0.48	< 0.1	< 1	0.2	0.2	2	2.2	4.6	0.6	2.8	0.7	0.9	0.2	1.2	257
164099	83.3	27.5	0.9	32.3	32.4	161	71	0.9	0.41	0.1	1	0.1	0.1	120	12.4	34.0	5.2	24.6	6.8	7.5	1.1	6.8	149
164100	126	24.4	1.4	15.1	34.3	97.1	59	0.3	0.31	0.1	1	< 0.1	< 0.1	74	13.3	34.0	5.0	24.3	6.6	7.5	1.2	7.1	78.7
164101	76.4	5.2	0.9	13.0	2.9	20.2	29	1.0	0.10	< 0.1	< 1	< 0.1	0.2	27	1.8	3.0	0.3	1.3	0.3	0.4	< 0.1	0.4	57.2
164102	149	2.2	1.8	1.3	4.8	11.6	21	0.5	0.70	< 0.1	< 1	< 0.1	0.1	8	1.4	3.1	0.4	1.7	0.4	0.6	< 0.1	0.7	78.6
164103	300	18.3	14.7	28.8	10.7	74.8	128	5.3	4.63	0.2	6	0.2	0.4	155	11.1	25.2	3.1	12.5	2.6	2.7	0.4	2.2	109
164104	187	11.9	2.3	5.9	14.0	68.3	90	3.3	1.03	0.1	1	< 0.1	0.2	11	10.8	23.3	2.9	11.5	2.5	2.7	0.4	2.4	251
164105	47.6	0.7	0.9	1.8	3.3	4.8	3	< 0.1	0.55	< 0.1	< 1	< 0.1	< 0.1	6	4.9	9.9	1.2	4.6	0.9	0.8	0.1	0.6	10.4
164106	92.3	22.3	6.2	29.9	13.3	323	195	7.2	0.72	< 0.1	1	0.2	0.4	101	15.0	33.1	4.0	15.3	3.0	3.0	0.4	2.4	39.4
164107	100	3.4	1.6	4.3	8.1	28.8	8	0.5	0.67	< 0.1	< 1	< 0.1	< 0.1	382	4.5	9.3	1.2	4.7	1.1	1.3	0.2	1.2	39.1
164108	89.2	11.5	5.3	10.0	19.7	34.3	172	5.5	0.82	< 0.1	2	0.1	0.3	35	13.7	29.5	3.6	13.8	2.9	3.2	0.5	3.1	243
164109	45.4	10.0	8.2	25.5	7.0	39.0	29	0.3	0.06	< 0.1	< 1	< 0.1	0.3	258	3.3	8.0	1.1	5.2	1.4	1.4	0.2	1.4	10.9
164110	252	21.9	1.9	50.9	20.7	103	55	2.0	2.76	0.2	3	0.4	0.2	333	4.6	10.9	1.4	6.3	1.9	2.9	0.5	3.7	61.3
164111	63.7	3.6	1.7	4.8	6.5	10.6	20	0.6	0.80	< 0.1	< 1	< 0.1	0.5	8	3.9	8.2	1.0	3.9	0.9	1.1	0.2	1.2	89.2
164112	115	15.5	6.1	64.0	14.1	446	53	5.5	600	0.7	10	1.1	0.4	546	11.9	23.3	2.8	11.4	2.6	2.9	0.4	2.7	> 10000
164113	83.3	5.8	15.2	2.7	4.7	93.1	10	0.5	4.49	< 0.1	< 1	0.4	1.0	60	2.0	3.9	0.5	2.0	0.5	0.7	0.1	0.9	290
164114	828	5.3	8.2	2.5	5.6	6.8	20	0.8	4.39	0.1	< 1	0.2	0.8	31	4.1	8.9	1.1	4.5	0.9	0.9	0.1	0.9	499
164115	80.9	3.4	3.1	11.2	4.2	32.5	18	0.9	0.71	< 0.1	< 1	0.1	0.1	13	3.7	6.8	0.8	2.9	0.6	0.8	0.1	0.7	27.8
164116	124	16.2	2.5	26.2	19.3	213	45	2.4	1.54	0.1	< 1	0.2	2.5	84	3.8	9.7	1.5	7.3	2.4	3.3	0.5	3.6	1310
164117	66.5	1.7	1.4	0.9	4.9	6.8	11	0.3	1.20	< 0.1	< 1	0.2	< 0.1	35	2.7	5.8	0.6	2.5	0.5	0.7	0.1	0.8	58.4

## Results

Analyte Symbol	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	%	%	%
Lower 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
Method Code	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
164026	0.3	0.3	1.7	0.3	< 0.1	1.0	0.004	< 0.05	1.3	63	1.3	< 0.1	0.194	0.034	0.37
164027	0.6	0.3	1.8	0.3	< 0.1	0.9	0.001	0.05	7.3	54	1.3	< 0.1	0.611	0.026	0.10
164028	0.3	0.4	2.4	0.4	< 0.1	0.6	0.005	< 0.05	1.6	60	1.0	0.1	0.459	0.036	0.15
164029	1.1	0.1	0.9	0.1	< 0.1	4.2	0.003	0.15	3.9	21	0.9	0.2	0.430	0.044	1.17
164030	0.7	0.1	0.8	0.1	< 0.1	2.7	0.002	< 0.05	1.5	16	0.5	< 0.1	0.240	0.057	1.93
164031	0.2	< 0.1	0.3	< 0.1	< 0.1	63.6	0.003	< 0.05	1.3	< 1	0.1	< 0.1	0.0081	0.033	0.23
164032	1.1	0.2	1.0	0.2	< 0.1	7.1	0.004	0.09	3.3	20	0.6	0.1	0.285	0.054	4.29
164033	0.2	< 0.1	0.4	< 0.1	< 0.1	1.2	0.002	< 0.05	1.6	5	0.2	< 0.1	0.0357	0.143	1.52
164034	0.1	< 0.1	0.2	< 0.1	< 0.1	0.5	0.004	< 0.05	0.5	2	0.1	< 0.1	0.0146	0.018	0.03
164035	0.2	0.1	0.6	0.1	< 0.1	1.1	0.002	0.06	0.7	5	0.9	0.1	0.0886	0.048	0.40
164036	0.4	0.3	1.5	0.2	< 0.1	0.3	0.003	0.09	4.5	20	3.8	1.0	0.408	0.157	0.80
164037	0.8	0.3	1.5	0.3	< 0.1	0.5	0.004	0.15	1.1	56	0.5	0.1	0.326	0.031	0.19
164038	0.4	0.5	2.9	0.5	< 0.1	0.4	0.003	< 0.05	1.2	52	0.5	0.1	0.392	0.038	0.18
164039	0.5	0.4	2.1	0.3	< 0.1	0.7	0.003	< 0.05	1.0	38	0.3	< 0.1	0.384	0.052	0.12
164040	0.5	0.3	1.7	0.3	< 0.1	0.7	0.004	0.06	2.1	38	0.4	0.3	0.583	0.037	2.45
164041	0.2	0.1	0.7	0.1	< 0.1	0.8	0.003	< 0.05	1.1	2	0.1	< 0.1	0.0151	0.063	1.47
164042	2.3	0.2	1.0	0.2	0.1	1.0	0.005	0.06	2.1	13	0.9	0.2	0.346	0.084	0.02
164043	0.3	0.2	1.0	0.2	< 0.1	1.9	0.002	< 0.05	2.2	4	0.2	< 0.1	0.0233	0.055	0.32
164044	0.3	0.4	2.4	0.4	< 0.1	1.5	0.007	< 0.05	1.8	13	0.7	0.2	0.0937	0.025	2.49
164045	0.2	< 0.1	0.5	< 0.1	< 0.1	1.3	0.004	< 0.05	1.0	1	0.1	< 0.1	0.0030	0.066	0.53
164046	0.2	0.1	0.7	0.1	< 0.1	1.6	0.002	< 0.05	0.7	5	0.3	< 0.1	0.0455	0.074	0.14
164047	0.8	0.2	1.1	0.2	0.4	1.1	0.002	0.16	5.4	18	2.7	0.4	0.488	0.069	0.70
164048	0.4	0.6	3.2	0.5	< 0.1	< 0.1	0.003	0.44	11.6	21	3.3	1.2	0.247	0.146	0.17
164049	0.8	0.1	0.9	0.2	0.3	1.4	0.003	< 0.05	2.5	11	2.5	0.7	0.374	0.092	1.05
164050	0.3	0.2	0.9	0.2	< 0.1	0.9	0.003	0.17	2.5	2	0.8	< 0.1	0.0611	0.092	0.26
164151	0.3	< 0.1	0.4	< 0.1	< 0.1	1.0	0.004	1.14	20.3	24	0.1	0.2	0.0312	0.045	4.40
164152	0.7	0.6	3.5	0.5	0.3	< 0.1	0.004	0.47	12.5	20	5.1	1.8	0.675	0.175	0.18
164153	0.8	< 0.1	0.4	< 0.1	< 0.1	0.4	0.001	0.13	2.2	20	0.3	< 0.1	0.177	0.036	< 0.01
164154	0.5	0.6	3.4	0.6	< 0.1	< 0.1	0.002	0.27	5.1	39	1.8	0.4	0.425	0.163	< 0.01
164069	0.3	0.2	1.1	0.2	0.4	1.7	0.002	0.06	4.0	10	1.9	0.5	0.567	0.110	0.65
164070	0.3	0.2	1.1	0.2	< 0.1	0.9	0.008	0.12	3.3	18	1.5	0.3	0.683	0.129	1.01
164071	0.2	0.1	0.8	0.1	0.3	1.4	0.003	0.19	7.4	15	1.6	0.4	0.426	0.074	0.59
164072	0.4	0.2	1.1	0.2	< 0.1	0.3	0.001	0.06	8.1	15	2.1	0.5	0.213	0.095	0.24
164073	0.3	0.2	1.1	0.2	0.3	8.7	0.003	0.33	5.9	15	2.2	0.5	0.658	0.124	1.07
164074	0.6	0.6	3.2	0.5	< 0.1	< 0.1	0.002	0.46	13.7	19	5.6	1.3	0.371	0.169	0.16
164075	0.1	< 0.1	0.3	< 0.1	< 0.1	0.9	0.001	< 0.05	< 0.5	3	0.2	< 0.1	0.0518	0.018	0.02
164076	0.8	0.3	1.6	0.3	0.3	0.4	0.010	< 0.05	5.3	14	3.1	0.7	0.310	0.111	0.23
164077	0.4	0.8	4.8	0.8	< 0.1	< 0.1	0.003	< 0.05	1.8	44	1.4	0.3	0.480	0.137	0.22
164078	0.5	0.4	2.3	0.4	< 0.1	1.6	0.004	< 0.05	1.9	48	0.4	< 0.1	0.453	0.032	0.27
164079	0.3	0.2	0.9	0.2	< 0.1	0.1	0.002	< 0.05	1.2	13	1.7	0.4	0.103	0.071	< 0.01
164080	0.3	0.2	1.0	0.2	< 0.1	0.4	0.004	0.40	6.4	14	1.9	0.4	0.553	0.107	0.72
164081	0.3	0.2	1.1	0.2	< 0.1	0.3	0.002	0.05	2.5	40	1.5	0.9	0.289	0.042	0.07
164082	0.1	< 0.1	0.3	< 0.1	< 0.1	1.1	0.004	< 0.05	0.7	13	< 0.1	< 0.1	0.100	0.048	0.19
164083	0.1	< 0.1	0.2	< 0.1	< 0.1	< 0.1	0.002	< 0.05	0.8	2	< 0.1	< 0.1	0.0063	0.138	0.02
164084	0.2	< 0.1	0.1	< 0.1	< 0.1	0.2	0.001	< 0.05	1.4	5	< 0.1	0.9	0.0282	0.004	0.04
164085	0.3	< 0.1	0.3	< 0.1	< 0.1	3.2	0.003	0.06	37.3	1	0.3	0.2	0.0408	0.007	8.05
164086	0.3	0.2	1.3	0.2	0.3	2.8	0.013	0.27	19.4	17	3.3	1.0	0.361	0.097	1.29
164087	0.2	< 0.1	0.3	< 0.1	< 0.1	2.4	0.001	< 0.05	0.6	8	0.1	0.2	0.0023	0.040	0.17
164088	0.4	< 0.1	0.5	< 0.1	< 0.1	0.2	0.002	0.28	4.5	50	0.5	< 0.1	0.202	0.018	< 0.01



Analyte Symbol	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	%	%	%
Lower 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
Method Code	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
164089	0.3	< 0.1	0.1	< 0.1	< 0.1	< 0.1	0.003	< 0.05	0.6	< 1	< 0.1	< 0.1	0.0043	0.036	0.28
164090	0.5	< 0.1	0.2	< 0.1	< 0.1	0.3	0.001	< 0.05	0.7	14	< 0.1	< 0.1	0.136	0.006	< 0.01
164091	0.3	< 0.1	0.2	< 0.1	< 0.1	0.5	0.004	< 0.05	0.6	5	< 0.1	< 0.1	0.0022	0.035	1.28
164092	0.3	0.2	0.7	0.1	< 0.1	1.3	0.003	0.30	4.1	19	0.3	0.2	0.416	0.488	0.66
164093	0.2	< 0.1	0.3	< 0.1	< 0.1	0.6	0.002	0.17	1.4	2	< 0.1	0.3	0.0037	0.025	0.69
164094	0.2	< 0.1	0.4	< 0.1	< 0.1	0.6	0.002	< 0.05	0.9	2	< 0.1	< 0.1	0.0035	0.077	0.57
164095	0.3	< 0.1	0.3	< 0.1	< 0.1	0.8	0.003	< 0.05	5.4	20	< 0.1	< 0.1	0.0405	0.075	2.63
164096	0.3	< 0.1	0.2	< 0.1	< 0.1	5.6	0.002	< 0.05	0.9	< 1	< 0.1	< 0.1	0.0032	0.013	0.49
164097	1.1	0.2	1.2	0.2	0.6	19.0	0.003	0.24	4.5	20	3.5	0.9	0.647	0.077	0.04
164098	0.2	0.1	0.9	0.2	< 0.1	1.2	0.003	< 0.05	1.6	5	< 0.1	< 0.1	0.0312	0.036	0.56
164099	1.5	0.6	3.5	0.6	< 0.1	0.4	0.006	0.32	7.4	45	1.5	0.4	0.533	0.145	0.60
164100	0.8	0.7	4.0	0.7	< 0.1	0.4	0.008	0.20	6.2	45	1.4	0.3	0.498	0.126	0.65
164101	0.3	< 0.1	0.4	< 0.1	< 0.1	2.5	0.004	< 0.05	1.7	3	0.5	< 0.1	0.0815	0.041	0.11
164102	0.2	< 0.1	0.4	< 0.1	< 0.1	0.6	0.002	< 0.05	1.5	14	0.2	< 0.1	0.0480	0.021	0.09
164103	0.5	0.2	1.1	0.2	0.3	1.6	0.008	0.32	10.3	15	1.8	0.5	0.409	0.084	0.37
164104	0.3	0.2	1.2	0.2	0.2	1.1	0.003	0.09	2.2	9	1.7	0.4	0.243	0.097	0.71
164105	0.2	< 0.1	0.3	< 0.1	< 0.1	0.3	0.004	< 0.05	1.7	< 1	< 0.1	< 0.1	0.0057	0.037	0.03
164106	0.4	0.2	1.2	0.2	0.4	1.4	0.005	0.31	8.8	18	3.0	0.9	0.563	0.116	0.68
164107	0.3	0.1	0.6	< 0.1	< 0.1	1.0	0.004	< 0.05	6.1	1	0.2	< 0.1	0.0366	0.086	0.20
164108	0.5	0.3	2.0	0.3	0.4	3.3	0.002	0.08	10.9	16	3.5	0.8	0.524	0.025	0.46
164109	0.5	0.1	0.7	0.1	< 0.1	0.3	0.004	0.20	6.0	22	0.3	< 0.1	0.367	0.043	0.02
164110	0.7	0.4	2.2	0.3	< 0.1	1.3	0.006	1.28	12.5	48	0.6	0.4	0.570	0.034	2.41
164111	0.3	0.1	0.6	0.1	< 0.1	0.7	0.004	0.11	2.9	6	0.4	0.1	0.0551	0.025	3.95
164112	0.4	0.2	1.3	0.2	0.3	2.9	0.011	0.31	21.3	18	4.3	1.2	0.372	0.103	1.38
164113	0.3	0.1	0.7	0.1	< 0.1	1.3	0.004	0.68	8.0	17	0.3	0.1	0.0534	0.006	9.57
164114	0.3	< 0.1	0.6	0.1	< 0.1	1.6	0.009	0.28	5.3	3	0.7	0.3	0.0655	0.027	12.7
164115	0.3	< 0.1	0.4	< 0.1	< 0.1	0.5	0.003	0.17	2.2	3	0.4	< 0.1	0.0760	0.038	0.55
164116	1.0	0.3	1.9	0.3	0.1	1.8	0.004	0.25	5.1	37	0.4	< 0.1	0.581	0.024	0.15
164117	0.2	< 0.1	0.5	< 0.1	< 0.1	0.9	0.002	< 0.05	< 0.5	3	0.1	< 0.1	0.0219	0.026	0.19

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
Lower 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
Method Code	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																							
GXR-1 Cert																							
GXR-4 Meas	10.3	0.44	1.60	6.05	2.06	0.87	0.1	77	50.7	150	3.02	1.1	90	38.7		2.1		2.92	2.49	14.5	1.37	18.5	6.0
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	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0	5.60
SDC-1 Meas	31.2	1.36	0.98	7.59	1.99	0.95		25	48.4	853	4.87	0.4		33.6	3.6	3.2	1.3		3.72	19.0	1.50		
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	34.9	0.10	0.58	> 10.0	1.51	0.18	0.1	85	58.6	1000	5.37	1.1	80	23.7		1.3		0.22	3.81	13.9	0.58	0.17	0.6
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	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290	0.940
SAR-M (U.S.G.S.) Meas	26.4	1.07	0.46	5.67	1.83	0.53	5.1	60	80.7	5530	3.27			45.7		2.7		4.44		11.8		1.70	1.2
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
DNC-1a Meas	4.3							143	154					271						63.2	0.58		
DNC-1a Cert	5.20							148.00	270					247						57.0	0.59		
SBC-1 Meas	160						0.5	210	94.4			2.7		85.5	3.8	3.6	1.3		7.98	24.6	1.88	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	
164026 Orig	8.3	1.80	2.65	5.99	0.19	3.29	0.1	292	10.1	2160	16.5	< 0.1	< 10	28.2	2.1	0.4	0.7	0.05	1.72	27.8	0.89	1.14	0.9
164026 Dup	8.5	1.83	2.71	6.08	0.19	3.38	0.1	255	23.6	2200	16.7	0.1	< 10	28.6	2.1	0.4	0.7	0.06	1.80	28.6	0.87	1.14	1.3
164069 Orig	8.8	2.98	1.28	6.22	0.43	2.81	0.1	107	60.7	309	5.17	3.7	< 10	41.1	1.4	0.7	0.5	0.24	0.74	7.8	0.89	0.39	1.1
164069 Split	10.1	2.60	1.32	6.91	0.45	2.90	0.1	104	53.8	272	4.70	3.4	10	40.4	1.7	0.8	0.6	0.23	0.79	7.8	1.08	0.43	1.8
164078 Orig	29.3	1.63	3.94	7.14	0.12	6.28	0.1	297	162	1820	11.1	1.3	< 10	106	2.5	0.3	0.8	0.11	0.41	52.0	0.78	0.08	0.9
164078 Dup	34.4	1.90	4.57	8.32	0.14	7.33	0.1	184	177	2130	12.8	0.7	< 10	122	2.9	0.4	1.0	0.06	0.47	60.0	0.90	0.09	0.9
164080 Orig	49.6	1.08	1.76	7.02	1.42	2.90	0.2	100	44.4	776	4.66	2.9	< 10	56.9	1.2	0.7	0.4	0.24	3.59	16.0	0.95	0.54	2.6
164080 Dup	50.5	1.10	1.77	7.06	1.80	2.90	0.2	106	43.7	805	4.81	2.9	< 10	58.8	1.3	0.7	0.5	0.25	3.66	16.2	0.96	0.54	2.5
164089 Orig	< 0.5	< 0.01	0.22	0.18	0.02	0.06	< 0.1	7	29.2	369	3.77	< 0.1	< 10	7.0	0.2	0.1	< 0.1	< 0.05	0.12	1.9	0.17	0.05	0.9
164089 Split	< 0.5	< 0.01	0.21	0.17	0.02	0.06	< 0.1	7	29.6	331	3.28	< 0.1	< 10	6.6	0.2	0.1	< 0.1	< 0.05	0.13	1.7	0.17	0.07	1.0
164099 Orig	41.8	0.64	1.83	8.27	1.13	1.78	0.1	163	61.8	1880	14.2	2.1	< 10	42.7	3.8	1.7	1.4	0.24	4.25	27.6	2.04	0.05	1.3
164099 Split	36.0	0.56	1.97	7.88	1.09	2.71	0.2	134	62.7	2010	13.3	2.2	< 10	45.3	4.3	2.3	1.5	0.27	3.64	31.1	2.30	0.08	2.0
164116 Orig	16.5	0.71	5.20	6.60	0.70	8.84	0.3	283	127	1620	10.4	1.3	< 10	80.9	2.3	1.0	0.8	1.37	0.88	35.3	1.05	5.58	1.5
164116 Dup	16.5	0.69	5.19	6.60	0.69	8.74	0.4	275	125	1600	10.2	1.2	< 10	80.5	2.3	0.9	0.8	1.43	0.89	34.9	1.06	5.40	1.2
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	< 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

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
Lower 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
Method Code	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																							
GXR-1 Cert																							
GXR-4 Meas	74.8	17.0	88.7	108	12.8	208	41	8.2	291	0.2	7	4.0	1.1	171	56.0	106		41.5	6.3	4.7	0.5	2.8	6450
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
SDC-1 Meas	108	22.1	0.6	95.9		173	20	0.7			< 1	< 0.1		601	41.7	88.7		40.9	8.0	7.3	1.0	6.4	30.7
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	30.000
GXR-6 Meas	132	31.0	176	64.6	11.4	39.9	44	0.3	0.37	< 0.1	< 1	0.7	< 0.1	1340	12.0	31.7		12.1	2.5	2.4	0.3	2.3	67.9
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
SAR-M (U.S.G.S.)	1010	16.9	35.4	114	29.7	152		22.5	11.7	1.0	2	5.3	0.9	732	52.2	109							324

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
Lower 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
Method Code	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
Meas																							
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							331.0000
DNC-1a Meas	74.2				16.5	144	37					0.7		100	3.9			5.2					103
DNC-1a Cert	70.0				18.0	144.0	38.000					0.96		118	3.6			5.20					100.00
SBC-1 Meas	211	26.8	24.5	134	32.2	186	114	11.8	2.17		3	0.8		750	52.7	111	13.6	51.0	10.0	8.8	1.2	7.0	34.7
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	31.0000
164026 Orig	107	20.5	3.3	6.2	18.3	109	4	< 0.1	0.63	< 0.1	< 1	< 0.1	< 0.1	55	3.8	9.5	1.4	6.5	2.1	2.9	0.5	3.4	228
164026 Dup	108	20.7	1.7	6.3	18.8	112	5	< 0.1	0.26	< 0.1	< 1	< 0.1	< 0.1	57	3.9	9.7	1.4	6.7	2.1	2.9	0.5	3.4	228
164069 Orig	33.6	18.0	3.9	10.8	12.4	223	162	7.9	0.82	< 0.1	1	0.2	0.1	242	11.2	25.7	3.4	13.7	2.8	2.8	0.4	2.4	4.7
164069 Split	33.3	17.7	6.4	13.3	14.0	229	151	5.6	1.10	< 0.1	1	0.3	0.4	255	14.1	32.0	4.2	16.8	3.3	3.4	0.5	2.9	4.5
164078 Orig	106	17.7	1.5	3.9	21.8	107	51	2.0	0.38	< 0.1	< 1	1.3	0.1	33	3.4	9.0	1.4	7.0	2.3	3.3	0.6	3.9	122
164078 Dup	123	20.4	2.0	4.6	25.3	127	27	< 0.1	0.21	< 0.1	< 1	0.5	< 0.1	39	3.9	10.5	1.6	8.1	2.6	3.7	0.7	4.4	141
164080 Orig	103	17.6	6.1	54.6	11.9	144	133	4.3	0.70	< 0.1	1	0.3	0.3	462	14.8	33.1	4.2	17.0	3.2	3.1	0.4	2.3	29.9
164080 Dup	104	18.2	6.1	61.9	12.0	147	136	3.9	0.73	< 0.1	< 1	0.3	0.5	477	15.5	34.6	4.3	17.1	3.3	3.1	0.4	2.4	31.7
164089 Orig	22.8	1.1	2.3	1.2	1.8	6.2	2	< 0.1	2.05	< 0.1	< 1	< 0.1	< 0.1	2	0.9	1.8	0.2	0.8	0.2	0.3	< 0.1	0.3	12.3
164089 Split	21.1	0.9	2.2	1.1	1.7	6.2	3	< 0.1	1.90	< 0.1	< 1	0.1	0.2	2	0.8	1.7	0.2	0.9	0.2	0.3	< 0.1	0.3	12.2
164099 Orig	83.3	27.5	0.9	32.3	32.4	161	71	0.9	0.41	0.1	1	0.1	0.1	120	12.4	34.0	5.2	24.6	6.8	7.5	1.1	6.8	149
164099 Split	106	27.2	2.6	33.6	35.0	175	71	0.7	0.49	0.1	1	0.2	0.1	150	12.4	33.8	5.2	24.8	6.8	7.8	1.2	7.5	144
164116 Orig	124	16.4	2.4	26.3	19.2	217	45	2.5	1.53	0.1	< 1	0.2	2.8	85	3.9	9.9	1.5	7.5	2.3	3.2	0.5	3.6	1330
164116 Dup	124	16.0	2.5	26.1	19.4	210	45	2.3	1.54	0.1	< 1	0.1	2.2	82	3.8	9.6	1.5	7.2	2.4	3.3	0.6	3.6	1280
Method Blank	< 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
Method Blank	< 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
Method Blank	< 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
Method Blank	< 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

QC

Analyte Symbol	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	%	%	%
Lower 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
Method Code	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									< 1				0.0285	0.053	0.22
GXR-1 Cert									1.58				0.036	0.0650	0.257
GXR-4 Meas		0.2	0.9	0.1	0.5	32.1		2.95	46.6	8	16.5	4.9	0.286	0.129	1.68
GXR-4 Cert		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		0.5	2.8		< 0.1	< 0.1		0.59	23.0	18	10.8	2.3	0.0746	0.058	
SDC-1 Cert		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		0.2	1.4	0.2	< 0.1	< 0.1		1.98	93.2	26	4.6	1.1		0.032	0.01
GXR-6 Cert		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						6.4		2.40	1010	9	14.7	3.7	0.375	0.066	
SAR-M (U.S.G.S.) Cert						9.78		2.7	982	7.83	17.2	3.57	0.38	0.07	
DNC-1a Meas			1.7							33			0.306		
DNC-1a Cert			2.0							31			0.29		
SBC-1 Meas		0.6	2.9	0.5	0.6	1.3		0.85	34.6	23	15.3	5.2	0.543		
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		
164026 Orig	0.3	0.3	1.7	0.3	< 0.1	1.1	0.004	0.05	1.3	63	1.4	< 0.1	0.192	0.033	0.36
164026 Dup	0.3	0.3	1.7	0.3	< 0.1	1.0	0.004	< 0.05	1.3	64	1.3	< 0.1	0.196	0.035	0.37

Analyte Symbol	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	%	%	%
Lower 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
Method Code	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
164069 Orig	0.3	0.2	1.1	0.2	0.4	1.7	0.002	0.06	4.0	10	1.9	0.5	0.567	0.110	0.65
164069 Split	0.4	0.2	1.3	0.2	0.2	1.7	0.005	0.08	3.5	14	2.7	0.6	0.574	0.112	0.67
164078 Orig	0.6	0.4	2.1	0.3	< 0.1	2.8	0.004	< 0.05	1.7	48	0.4	< 0.1	0.658	0.034	0.27
164078 Dup	0.5	0.4	2.5	0.4	< 0.1	0.4	0.003	0.05	2.0	47	0.4	< 0.1	0.249	0.029	0.26
164080 Orig	0.3	0.2	1.0	0.2	< 0.1	0.4	0.004	0.38	8.3	14	1.9	0.4	0.551	0.109	0.73
164080 Dup	0.3	0.2	1.0	0.2	< 0.1	0.4	0.003	0.42	4.5	14	1.9	0.4	0.554	0.106	0.70
164089 Orig	0.3	< 0.1	0.1	< 0.1	< 0.1	< 0.1	0.003	< 0.05	0.6	< 1	< 0.1	< 0.1	0.0043	0.036	0.28
164089 Split	0.3	< 0.1	0.1	< 0.1	< 0.1	0.2	0.003	< 0.05	0.7	< 1	0.3	< 0.1	0.0045	0.036	0.28
164099 Orig	1.5	0.6	3.5	0.6	< 0.1	0.4	0.006	0.32	7.4	45	1.5	0.4	0.533	0.145	0.60
164099 Split	1.3	0.7	3.8	0.6	< 0.1	0.6	0.005	0.35	7.4	44	2.0	0.4	0.598	0.177	0.69
164116 Orig	1.1	0.3	1.9	0.3	0.1	2.0	0.005	0.25	5.1	37	0.5	< 0.1	0.594	0.024	0.16
164116 Dup	1.0	0.3	1.9	0.3	0.1	1.7	0.004	0.25	5.1	37	0.4	< 0.1	0.568	0.023	0.15
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	< 0.0005	< 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



**Date Submitted:** 05-Nov-14  
**Invoice No.:** A14-08517-Au  
**Invoice Date:** 10-Nov-14  
**Your Reference:** PN 243

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

ATTN: Alan Smith

## CERTIFICATE OF ANALYSIS

38 Rock samples were submitted for analysis.

The following analytical package was requested:

Code 1A2-Sudbury Au - Fire Assay AA

REPORT **A14-08517-Au**

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 style with some loops and flourishes.

Emmanuel Esemé , Ph.D.  
Quality Control





**Date Submitted:** 05-Nov-14  
**Invoice No.:** A14-08517-Au  
**Invoice Date:** 10-Nov-14  
**Your Reference:** PN 243

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

ATTN: Alan Smith

## CERTIFICATE OF ANALYSIS

38 Rock samples were submitted for analysis.

The following analytical package was requested:

Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A14-08517-Au**

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 over a horizontal line.

Emmanuel Esemé , Ph.D.  
Quality Control



**Results**

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
164118	5
164119	9
164120	< 5
164121	< 5
164122	< 5
164123	< 5
164124	< 5
164125	< 5
164126	< 5
164127	< 5
164128	< 5
164129	9
164130	9
164131	8
164132	6
164133	< 5
164134	< 5
164135	< 5
164136	1010
164137	< 5
164138	< 5
164139	< 5
164140	< 5
164141	6
164142	< 5
164143	< 5
164144	24
164145	< 5
164146	< 5
164147	< 5
164148	< 5
164149	5
164150	6
164155	8
164156	7
164157	< 5
164158	14
164159	< 5

## QC

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
OxD108 Meas	405
OxD108 Cert	414.000
OxD108 Meas	415
OxD108 Cert	414.000
SG66 Meas	1050
SG66 Cert	1090
SG66 Meas	1060
SG66 Cert	1090
164127 Orig	< 5
164127 Dup	< 5
164137 Orig	< 5
164137 Dup	11
164147 Orig	< 5
164147 Split	< 5
164147 Orig	< 5
164147 Dup	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5





**Date Submitted:** 05-Nov-14  
**Invoice No.:** A14-08517-TD  
**Invoice Date:** 20-Nov-14  
**Your Reference:** PN 243

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

ATTN: Alan Smith

## CERTIFICATE OF ANALYSIS

38 Rock samples were submitted for analysis.

The following analytical package was requested:

Code 1A2-Sudbury Au - Fire Assay AA

REPORT **A14-08517-TD**

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 style with some loops and flourishes.

Emmanuel Esemé , Ph.D.  
Quality Control





**Date Submitted:** 05-Nov-14  
**Invoice No.:** A14-08517-TD  
**Invoice Date:** 20-Nov-14  
**Your Reference:** PN 243

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

ATTN: Alan Smith

## CERTIFICATE OF ANALYSIS

38 Rock samples were submitted for analysis.

The following analytical package was requested:

Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A14-08517-TD**

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 over a horizontal line.

Emmanuel Esemé , Ph.D.  
Quality Control



## 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
Lower 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
Method Code	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
164118	23.6	0.34	1.33	4.14	1.91	0.34	0.1	100	84.6	462	6.39	1.5	< 10	32.4	1.4	< 0.1	0.5	0.16	1.86	25.1	0.53	2.11	1.6
164119	10.4	0.73	0.45	2.18	1.35	0.19	0.1	37	59.4	182	2.45	0.6	< 10	14.8	0.5	0.3	0.2	0.27	0.85	11.9	0.23	3.79	0.2
164120	11.0	0.09	0.14	1.25	1.25	0.02	0.1	13	76.3	71	0.76	0.2	< 10	7.2	0.2	< 0.1	< 0.1	0.09	1.05	1.5	0.12	1.16	< 0.1
164121	26.1	0.44	0.23	1.86	1.29	0.06	0.1	23	77.5	92	0.87	0.4	< 10	11.5	0.3	< 0.1	< 0.1	0.07	1.18	2.7	0.15	0.63	< 0.1
164122	10.5	> 3.00	0.27	8.58	1.84	1.02	0.1	9	14.7	159	0.62	1.6	< 10	5.5	0.1	1.2	< 0.1	0.15	2.37	5.3	0.13	0.24	< 0.1
164123	13.4	> 3.00	0.49	8.64	1.59	1.91	0.2	39	28.6	357	1.98	2.3	< 10	6.8	0.6	0.9	0.2	0.10	1.85	4.9	0.55	0.07	0.5
164124	18.8	> 3.00	1.21	8.95	2.35	3.65	0.2	69	29.3	775	4.67	2.6	< 10	12.0	3.5	2.3	1.2	0.09	1.17	15.8	1.39	0.04	0.6
164125	16.2	> 3.00	0.38	9.02	2.52	1.08	0.2	12	19.2	110	0.73	1.4	< 10	7.2	0.1	1.3	< 0.1	0.06	2.59	2.5	0.08	0.06	< 0.1
164126	5.9	> 3.00	0.32	8.40	1.75	1.43	0.1	18	23.3	176	1.29	1.9	< 10	3.8	0.2	1.8	< 0.1	0.13	0.62	5.8	0.21	0.17	0.3
164127	46.8	> 3.00	4.66	6.49	1.62	2.79	0.2	97	585	727	4.28	2.0	< 10	312	1.0	1.2	0.4	0.14	8.01	33.5	1.00	0.17	0.7
164128	13.1	> 3.00	0.35	9.17	1.50	1.80	0.2	11	21.3	92	0.80	1.4	< 10	7.0	0.1	1.2	< 0.1	0.08	1.27	8.8	0.09	0.07	< 0.1
164129	18.9	> 3.00	0.80	8.41	1.50	0.96	0.2	37	38.8	283	1.66	1.9	< 10	27.3	0.4	0.7	0.1	3.66	1.78	4.9	0.32	0.13	< 0.1
164130	14.9	2.19	2.73	6.50	0.30	5.15	0.2	136	27.2	1530	10.5	0.1	< 10	31.5	3.3	0.9	1.2	0.05	0.50	49.8	1.37	0.05	1.5
164131	20.8	2.30	2.46	6.74	0.27	3.65	0.2	129	20.5	1790	11.2	< 0.1	< 10	30.6	3.5	0.7	1.2	< 0.05	3.79	51.3	1.39	0.04	0.8
164132	21.9	2.09	2.37	7.85	0.09	5.33	0.2	165	46.0	2400	10.4	0.2	< 10	47.6	3.4	0.6	1.2	< 0.05	0.29	51.7	1.36	0.05	0.8
164133	21.7	> 3.00	0.44	9.41	2.12	0.83	< 0.1	16	17.2	125	0.88	1.2	< 10	7.5	0.3	0.9	< 0.1	< 0.05	3.32	2.3	0.16	0.04	< 0.1
164134	4.9	1.76	3.86	4.41	0.61	7.03	0.2	153	616	2400	13.9	1.1	< 10	431	2.4	2.8	1.0	0.14	0.28	61.2	2.36	0.14	0.9
164135	12.6	2.34	3.52	6.63	0.23	6.01	0.3	328	61.5	1840	11.0	1.0	< 10	64.9	2.5	0.3	0.9	0.19	0.39	58.4	1.07	0.13	0.4
164136	9.1	2.42	3.64	6.90	0.70	5.41	0.2	114	152	2400	10.1	2.7	< 10	143	2.6	1.3	1.0	0.23	2.47	42.2	1.78	0.09	1.3
164137	6.6	> 3.00	0.38	6.78	0.50	0.48	< 0.1	17	52.2	135	0.88	0.8	< 10	28.2	0.2	0.3	< 0.1	0.14	0.62	12.3	0.14	0.22	< 0.1
164138	25.3	> 3.00	2.31	7.01	0.82	3.87	0.2	111	162	833	5.71	2.6	< 10	103	2.3	0.9	0.8	0.17	1.25	31.8	1.01	0.15	0.7
164139	16.5	> 3.00	1.34	7.99	1.80	1.39	0.2	34	70.5	261	1.37	1.6	< 10	89.8	0.3	1.6	< 0.1	0.07	1.21	10.5	0.14	0.09	0.4
164140	21.8	> 3.00	0.36	8.59	2.01	1.49	0.1	11	15.0	243	0.75	1.2	< 10	7.9	0.1	1.5	< 0.1	< 0.05	1.29	3.6	0.09	0.05	< 0.1
164141	9.1	> 3.00	0.26	8.67	1.64	1.23	0.1	8	20.8	90	0.65	1.4	< 10	3.5	0.1	1.4	< 0.1	< 0.05	1.49	1.5	0.05	0.06	< 0.1
164142	22.2	> 3.00	2.81	6.50	0.75	1.73	0.2	43	131	486	2.21	1.6	< 10	218	0.5	1.4	0.2	0.11	0.39	19.1	0.32	0.10	0.6
164143	13.5	> 3.00	0.37	8.32	2.39	1.47	0.2	19	17.5	200	0.86	1.4	< 10	11.1	0.2	2.1	< 0.1	0.05	1.81	4.6	0.10	0.05	0.2
164144	44.9	1.69	0.93	4.26	1.64	0.12	0.2	82	107	208	2.72	1.6	40	79.5	0.9	0.9	0.3	0.21	4.05	24.9	0.52	8.16	0.6
164145	80.7	1.65	2.96	4.99	0.12	2.52	0.3	280	116	1430	8.08	2.0	< 10	81.5	0.9	0.7	0.3	0.11	0.26	50.2	0.34	0.17	0.4
164146	9.5	> 3.00	0.23	8.14	1.85	0.31	0.1	10	17.5	62	0.60	1.8	< 10	3.5	0.1	1.5	< 0.1	0.07	1.49	3.2	0.06	0.08	0.3
164147	11.4	> 3.00	0.29	8.33	1.38	1.27	0.1	10	18.5	83	0.71	1.6	< 10	5.0	0.1	1.3	< 0.1	0.05	1.69	2.5	0.09	0.05	< 0.1
164148	18.0	> 3.00	1.02	7.86	2.01	3.18	0.2	59	22.7	700	4.38	2.5	< 10	11.3	3.1	2.4	1.1	0.09	1.16	25.9	1.41	0.05	0.7
164149	31.3	2.87	1.62	8.13	1.88	0.81	0.2	92	146	500	4.18	3.2	< 10	77.9	1.2	1.3	0.4	0.14	3.19	18.3	0.90	0.33	0.4
164150	7.2	> 3.00	0.28	8.98	0.50	1.52	0.2	7	15.9	119	0.54	1.8	< 10	7.9	0.1	1.6	< 0.1	0.06	0.54	2.9	0.09	0.06	< 0.1
164155	3.9	> 3.00	0.21	7.70	1.88	0.91	0.1	12	17.2	95	0.68	1.6	< 10	4.5	0.1	1.5	< 0.1	0.07	2.52	3.5	0.09	0.08	< 0.1
164156	29.9	0.83	3.54	7.33	0.05	5.72	0.2	233	107	2440	10.9	0.4	< 10	91.6	2.7	0.5	0.9	0.09	0.46	45.9	1.16	0.05	0.6
164157	44.7	0.56	4.72	6.66	0.81	7.94	0.3	100	50.8	1890	12.6	1.2	< 10	74.7	5.7	1.1	1.9	0.05	1.95	48.8	2.05	0.07	1.4
164158	60.1	1.14	2.36	6.50	0.94	3.38	0.2	84	59.8	1130	9.56	0.7	< 10	42.3	5.6	1.7	1.9	< 0.05	2.10	38.3	1.81	0.05	1.4
164159	19.2	2.42	0.44	5.51	1.47	2.18	0.2	28	21.4	274	1.31	2.4	30	10.8	0.2	2.3	< 0.1	0.06	2.60	5.3	0.32	0.04	0.1

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
Lower 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
Method Code	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
164118	66.1	10.6	3.5	105	11.3	76.9	58	3.1	1.08	< 0.1	< 1	0.2	0.2	257	3.9	9.5	1.3	5.3	1.5	1.9	0.3	2.2	12.2
164119	42.3	4.8	7.0	56.9	4.2	53.6	27	1.3	2.58	< 0.1	< 1	0.2	0.3	216	2.2	4.8	0.6	2.2	0.6	0.7	0.1	0.8	8.9
164120	8.0	2.7	1.0	61.5	1.6	23.4	13	0.7	5.72	< 0.1	< 1	0.1	< 0.1	282	2.1	3.4	0.5	1.6	0.3	0.4	< 0.1	0.3	13.2
164121	14.3	4.3	2.9	70.3	2.1	40.0	19	1.0	0.79	< 0.1	< 1	0.2	0.1	264	3.1	5.9	0.8	2.8	0.6	0.5	< 0.1	0.5	14.4
164122	21.8	16.3	142	72.7	1.1	341	54	1.5	0.35	< 0.1	< 1	0.5	< 0.1	577	1.2	2.5	0.3	1.2	0.3	0.3	< 0.1	0.2	12.0
164123	54.7	21.6	7.5	40.7	5.5	293	85	2.9	0.38	< 0.1	< 1	0.2	< 0.1	337	10.3	20.8	2.3	8.3	1.5	1.4	0.2	1.1	11.7
164124	88.9	22.6	0.4	114	32.0	409	102	2.2	0.39	< 0.1	< 1	< 0.1	< 0.1	701	25.4	57.3	7.6	29.9	6.4	6.7	1.0	6.3	24.4
164125	23.4	16.6	9.9	86.5	1.0	229	53	0.8	0.70	< 0.1	< 1	0.3	0.2	1270	1.3	2.5	0.3	1.3	0.3	0.3	< 0.1	0.2	19.5
164126	38.1	23.8	9.4	42.5	1.7	767	76	3.1	0.28	< 0.1	< 1	0.2	< 0.1	946	4.9	10.4	1.2	4.1	0.7	0.6	< 0.1	0.4	48.3
164127	95.0	13.3	1.5	54.3	8.9	324	74	3.5	0.60	< 0.1	< 1	0.3	< 0.1	728	13.0	30.1	3.9	15.6	3.4	3.2	0.4	2.0	64.8
164128	18.9	14.8	5.5	59.7	0.7	415	52	0.9	0.13	< 0.1	< 1	0.3	< 0.1	718	1.3	2.6	0.3	1.2	0.3	0.3	< 0.1	0.2	14.9
164129	61.3	15.1	8.1	57.2	2.9	218	70	0.7	0.29	< 0.1	< 1	< 0.1	< 0.1	521	8.3	17.0	2.0	7.1	1.2	1.0	0.1	0.6	18.3
164130	135	22.2	14.1	10.1	28.5	263	6	0.1	0.13	0.1	< 1	< 0.1	0.1	115	7.0	17.4	2.6	12.1	3.6	5.0	0.9	5.8	107
164131	145	22.7	4.1	13.6	29.9	169	4	< 0.1	0.09	< 0.1	< 1	0.1	< 0.1	148	7.5	18.6	2.8	12.5	3.8	5.2	0.9	5.9	70.3
164132	121	22.4	15.8	3.2	28.3	182	8	0.2	0.11	< 0.1	< 1	0.1	< 0.1	35	7.4	17.9	2.7	12.3	3.7	5.0	0.9	5.7	87.1
164133	20.1	14.5	2.0	82.2	2.2	259	45	0.8	0.12	< 0.1	< 1	0.3	< 0.1	693	2.2	3.9	0.5	2.2	0.5	0.5	< 0.1	0.5	24.5
164134	169	19.3	2.5	16.4	21.2	376	37	2.4	0.30	0.1	1	0.1	< 0.1	409	25.2	58.6	8.2	33.0	7.3	7.1	1.0	5.5	206
164135	132	20.2	4.5	8.9	21.7	169	29	3.1	0.48	< 0.1	< 1	0.1	< 0.1	72	4.7	12.0	1.8	8.6	2.7	3.8	0.6	4.2	64.3
164136	131	18.1	368	25.0	23.8	365	108	6.0	2.22	< 0.1	1	0.4	< 0.1	435	22.4	40.3	5.7	22.9	5.3	6.0	0.9	5.2	101
164137	18.0	10.3	16.7	15.1	1.9	189	31	0.8	2.05	< 0.1	< 1	0.4	< 0.1	147	0.7	1.8	0.2	1.1	0.3	0.4	< 0.1	0.4	61.6
164138	103	16.5	6.1	36.1	19.6	172	97	3.3	1.08	< 0.1	1	0.2	< 0.1	311	16.3	34.9	4.4	16.6	3.5	3.9	0.6	3.7	49.3
164139	55.5	14.2	4.0	55.6	2.2	368	56	1.5	0.38	< 0.1	< 1	0.2	0.2	1140	1.0	2.5	0.3	1.5	0.4	0.5	< 0.1	0.5	45.7
164140	50.4	14.3	1.1	76.1	0.8	347	47	1.0	0.29	< 0.1	< 1	0.2	0.1	643	1.5	2.6	0.3	1.1	0.2	0.3	< 0.1	0.2	40.0
164141	19.7	14.6	0.4	75.8	0.6	357	50	0.9	0.24	< 0.1	< 1	0.1	0.2	655	0.7	1.2	0.2	0.6	0.2	0.2	< 0.1	0.2	2.4
164142	56.5	12.8	2.4	24.5	3.9	369	55	1.6	0.33	< 0.1	< 1	0.1	0.2	320	3.0	6.9	0.9	3.8	1.0	1.0	0.1	0.8	20.0
164143	37.9	14.7	0.4	79.9	0.9	515	56	1.0	0.45	< 0.1	< 1	0.1	0.3	1110	1.1	2.3	0.3	1.1	0.3	0.3	< 0.1	0.3	2.4
164144	38.9	10.2	8.2	80.0	7.5	55.7	65	2.8	6.04	< 0.1	< 1	0.1	0.2	644	15.1	36.2	4.1	13.4	2.0	1.7	0.2	1.4	53.2
164145	124	18.6	22.3	1.3	5.4	66.6	71	3.4	0.40	< 0.1	< 1	0.2	< 0.1	86	1.3	4.4	0.7	3.2	1.1	1.3	0.2	1.3	42.0
164146	21.0	14.1	2.1	71.8	0.7	392	59	1.1	0.63	< 0.1	< 1	0.2	0.2	699	0.7	1.0	0.2	0.8	0.2	0.2	< 0.1	0.2	8.1
164147	23.6	13.2	1.0	63.7	0.7	301	53	1.1	0.18	< 0.1	< 1	0.2	< 0.1	554	1.0	1.9	0.3	1.0	0.2	0.2	< 0.1	0.2	7.3
164148	77.7	19.6	0.2	104	28.1	390	93	2.8	0.22	< 0.1	< 1	< 0.1	< 0.1	740	24.9	55.0	7.3	28.5	6.0	5.9	0.9	5.4	46.4
164149	90.4	20.6	39.6	87.9	10.4	274	123	4.0	0.78	< 0.1	< 1	0.3	0.2	683	26.6	52.3	6.3	22.4	3.8	3.2	0.4	2.2	28.7
164150	32.8	20.6	1040	13.8	0.8	155	61	1.2	0.16	< 0.1	< 1	0.3	0.2	247	0.8	1.8	0.2	0.9	0.2	0.3	< 0.1	0.2	3.2
164155	12.6	14.6	23.4	67.6	0.8	281	57	0.9	0.39	< 0.1	< 1	0.3	< 0.1	561	1.4	2.8	0.3	1.4	0.3	0.3	< 0.1	0.2	11.7
164156	112	21.8	18.6	2.5	22.9	215	9	1.4	0.59	< 0.1	< 1	0.3	< 0.1	27	5.4	13.8	2.1	10.0	3.0	4.0	0.7	4.5	70.0
164157	187	21.0	0.1	30.8	47.6	81.0	41	0.5	0.16	< 0.1	< 1	< 0.1	< 0.1	68	9.7	24.5	3.8	17.7	5.3	7.4	1.3	8.7	12.4
164158	144	23.2	< 0.1	28.2	45.5	71.1	26	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	176	10.7	28.4	4.3	19.7	5.6	7.6	1.3	8.9	7.0
164159	49.5	20.3	< 0.1	53.5	1.3	308	82	1.2	0.22	< 0.1	< 1	0.1	0.3	387	2.0	7.0	0.7	3.3	0.8	0.6	< 0.1	0.4	3.9

Results

Analyte Symbol	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	%	%	%
Lower 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
Method Code	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
164118	0.1	0.2	1.3	0.2	0.1	4.3	0.040	1.03	11.3	21	1.6	0.6	0.426	0.028	2.35
164119	< 0.1	< 0.1	0.5	< 0.1	< 0.1	0.4	0.033	0.47	36.3	6	0.9	0.4	0.159	0.012	0.93
164120	< 0.1	< 0.1	0.2	< 0.1	< 0.1	< 0.1	0.039	0.48	2.8	2	0.7	0.6	0.0560	0.006	0.03
164121	< 0.1	< 0.1	0.3	< 0.1	< 0.1	< 0.1	0.037	0.52	3.2	4	1.1	0.3	0.0848	0.011	0.04
164122	0.1	< 0.1	0.1	< 0.1	< 0.1	0.3	0.033	0.44	8.3	1	0.6	0.4	0.0827	0.016	0.02
164123	0.5	< 0.1	0.5	< 0.1	0.2	0.5	0.034	0.22	5.0	4	2.0	0.6	0.207	0.035	0.04
164124	0.6	0.5	3.0	0.5	< 0.1	< 0.1	0.035	0.54	12.8	14	4.1	1.3	0.294	0.084	0.11
164125	0.3	< 0.1	< 0.1	< 0.1	< 0.1	0.1	0.037	0.41	6.0	2	0.4	0.2	0.0851	0.017	0.01
164126	0.1	< 0.1	0.2	< 0.1	< 0.1	0.4	0.039	0.26	13.4	2	0.9	0.5	0.123	0.030	0.27
164127	0.8	0.1	0.8	0.1	0.1	< 0.1	0.032	0.54	8.2	12	3.0	1.0	0.301	0.120	0.03
164128	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.034	0.41	12.2	1	0.3	1.0	0.0864	0.015	0.01
164129	< 0.1	< 0.1	0.4	< 0.1	< 0.1	< 0.1	0.029	0.40	6.2	5	2.2	0.6	0.171	0.028	0.03
164130	0.4	0.5	2.7	0.4	< 0.1	< 0.1	0.046	0.09	3.1	39	0.9	0.2	0.190	0.047	0.26
164131	0.3	0.5	2.6	0.4	< 0.1	< 0.1	0.033	0.07	2.1	39	0.9	0.2	0.208	0.047	0.08
164132	0.3	0.5	2.6	0.3	< 0.1	< 0.1	0.023	< 0.05	2.8	42	0.8	0.2	0.242	0.055	0.30
164133	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.1	0.031	0.50	3.3	2	0.3	0.2	0.0876	0.016	< 0.01
164134	0.5	0.3	1.6	0.2	< 0.1	< 0.1	0.037	0.15	9.4	39	3.5	0.9	0.530	0.073	0.40
164135	0.8	0.4	2.2	0.3	< 0.1	< 0.1	0.036	0.07	5.0	39	0.6	0.9	0.743	0.036	0.20
164136	0.4	0.3	2.0	0.3	< 0.1	< 0.1	0.041	0.12	5.6	19	4.3	1.1	0.632	0.144	0.76
164137	< 0.1	< 0.1	0.2	< 0.1	< 0.1	1.4	0.038	0.11	2.9	2	0.2	0.2	0.0687	0.019	0.02
164138	0.5	0.3	2.0	0.3	< 0.1	< 0.1	0.043	0.19	5.3	20	2.7	5.2	0.443	0.062	0.70
164139	0.2	< 0.1	0.2	< 0.1	< 0.1	0.2	0.042	0.36	5.7	4	0.4	0.4	0.119	0.028	0.02
164140	0.4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.040	0.46	5.9	1	0.3	0.2	0.105	0.018	0.01
164141	0.4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.039	0.50	4.9	1	0.1	0.2	0.0773	0.011	< 0.01
164142	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.1	0.045	0.22	6.9	7	0.6	0.3	0.151	0.036	0.02
164143	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.047	0.49	7.6	2	0.3	0.2	0.102	0.020	< 0.01
164144	0.1	0.1	0.9	0.1	0.1	1.9	0.047	0.51	4.5	12	3.1	1.1	0.211	0.035	0.43
164145	0.8	0.1	1.0	0.2	0.2	0.6	0.036	0.09	1.6	33	0.5	0.2	0.603	0.037	0.02
164146	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.043	0.40	2.6	1	0.1	0.2	0.0759	0.016	< 0.01
164147	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.032	0.38	5.3	2	0.2	0.2	0.0921	0.016	0.01
164148	0.6	0.4	2.6	0.4	< 0.1	< 0.1	0.041	0.52	13.1	15	4.1	1.3	0.195	0.079	0.10
164149	0.7	0.2	1.1	0.2	0.2	1.5	0.039	0.55	13.2	18	7.4	1.9	0.212	0.059	0.02
164150	< 0.1	< 0.1	0.1	< 0.1	< 0.1	2.5	0.046	0.10	5.5	1	0.5	0.2	0.0771	0.020	0.06
164155	0.1	< 0.1	0.1	< 0.1	< 0.1	1.1	0.036	0.45	5.0	2	0.4	0.2	0.114	0.026	0.07
164156	0.7	0.4	2.0	0.3	< 0.1	< 0.1	0.042	< 0.05	2.4	43	0.6	0.2	0.527	0.028	0.17
164157	0.3	0.8	5.2	0.8	< 0.1	< 0.1	0.042	0.26	3.1	36	0.9	0.2	0.400	0.092	0.04
164158	0.3	0.8	5.3	0.8	< 0.1	< 0.1	0.035	0.29	8.4	34	1.3	0.4	0.125	0.091	0.02
164159	0.2	< 0.1	0.2	< 0.1	< 0.1	0.5	0.055	0.47	10.6	2	0.3	0.2	0.210	0.034	0.02

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
Lower 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
Method Code	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	7.3	0.05	0.17	1.99	0.04	0.80	2.5	76	22.8	849	24.9	0.4	3900	38.4		0.7		30.5	2.84	7.8	0.58	1440	14.9
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-4 Meas	10.0	0.55	1.43	5.91	2.23	0.93	0.2	81	47.6	142	3.07	1.1		39.2		1.9		2.96	2.62	14.0	1.37	17.7	5.6
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
SDC-1 Meas	33.8	1.59	0.86	7.44	2.45	0.95		35	53.0	792	4.75	0.7		33.5	3.7	2.9	1.3		4.03	17.7	1.56		
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	32.5	0.10	0.47	> 10.0	1.76	0.15	0.2	120	66.0	1030	5.82	1.7		24.2		0.7		0.23	4.22	14.0	0.61	0.20	0.8
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
SAR-M (U.S.G.S.) Meas	26.3	1.21	0.38	5.37	2.49	0.54	4.3	47	78.1	4490	3.19			40.8		2.3		2.45		10.3		1.60	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
DNC-1a Meas	4.8							135	129					263						57.6	0.61		
DNC-1a Cert	5.20							148.00	270					247						57.0	0.59		
SBC-1 Meas	157						0.5	196	94.0			3.2		83.9	3.6	3.4	1.3		8.28	22.5	1.81	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	
OREAS 45d (4-Acid) Meas																							
OREAS 45d (4-Acid) Cert																							
164136 Orig	8.8	2.37	3.56	6.66	0.70	5.33	0.2	127	141	2370	10.00	3.0	< 10	141	2.6	1.7	1.0	0.27	2.42	41.5	1.75	0.10	1.2
164136 Dup	9.5	2.47	3.71	7.13	0.71	5.48	0.2	101	162	2430	10.2	2.5	< 10	145	2.6	1.0	1.0	0.19	2.51	42.9	1.80	0.07	1.3
164147 Orig	11.4	> 3.00	0.29	8.33	1.38	1.27	0.1	10	18.5	83	0.71	1.6	< 10	5.0	0.1	1.3	< 0.1	0.05	1.69	2.5	0.09	0.05	< 0.1
164147 Split	11.1	> 3.00	0.29	7.70	1.28	1.18	0.2	10	19.8	97	0.72	1.5	< 10	5.0	0.1	1.2	< 0.1	0.06	1.69	2.6	0.08	0.05	< 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

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
Lower 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
Method Code	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	808	10.4	397	3.3	29.6	291	21	0.8	18.5	0.8	25	28.8	8.9	722	7.3	14.3		7.9	2.7	4.0	0.7	4.7	1070
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-4 Meas	75.2	17.7	94.7	124	14.1	215	42	9.1	314	0.2	6	4.6	1.1	217	55.6	101		38.2	5.9	4.4	0.5	2.7	6310
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
SDC-1 Meas	107	21.0	1.3	129		177	31	1.4			< 1	0.1		664	40.4	85.8		38.5	7.5	7.1	1.1	6.5	30.5
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	30.000
GXR-6 Meas	139	29.5	252	88.3	13.1	37.0	69	0.9	1.05	< 0.1	< 1	0.8	< 0.1	1170	12.6	33.6		11.8	2.5	2.4	0.4	2.4	78.2
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
SAR-M (U.S.G.S.) Meas	905	17.9	29.5	142	35.5	150		4.7	6.65	0.9	3	4.6	0.5	780	55.3	111							304
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							331.0000
DNC-1a Meas	72.9				17.5	146	38					1.3		114	3.9			4.9					95.6
DNC-1a Cert	70.0				18.0	144.0	38.000					0.96		118	3.6			5.20					100.00
SBC-1 Meas	205	25.8	25.8	149	32.9	182	117	14.6	2.42		3	1.2		804	48.2	98.0	12.0	44.0	8.7	8.2	1.1	6.6	31.1
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	31.0000
OREAS 45d (4-Acid) 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
Lower 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
Method Code	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
OREAS 45d (4-Acid) Cert																							
164136 Orig	130	17.9	379	24.5	23.4	360	121	8.8	2.42	< 0.1	1	0.4	< 0.1	433	22.2	39.9	5.6	22.4	5.3	6.0	0.9	5.2	97.8
164136 Dup	133	18.2	356	25.5	24.1	371	95	3.1	2.03	< 0.1	1	0.5	< 0.1	438	22.6	40.6	5.7	23.3	5.3	6.0	0.9	5.2	105
164147 Orig	23.6	13.2	1.0	63.7	0.7	301	53	1.1	0.18	< 0.1	< 1	0.2	< 0.1	554	1.0	1.9	0.3	1.0	0.2	0.2	< 0.1	0.2	7.3
164147 Split	24.3	13.4	1.4	62.7	0.7	302	53	1.3	0.50	< 0.1	< 1	0.2	0.2	558	0.8	1.7	0.2	0.8	0.2	0.2	< 0.1	0.2	8.0
Method Blank	< 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
Method Blank	< 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

QC

Analyte Symbol	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	%	%	%
Lower 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
Method Code	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		0.4	2.1	0.3	< 0.1	138		0.44	745	2	3.0	31.4	0.0269	0.061	0.26
GXR-1 Cert		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		0.2	1.0	0.1	0.5	32.0		3.15	47.0	8	18.0	5.1	0.290	0.134	1.74
GXR-4 Cert		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		0.5	3.2		< 0.1	< 0.1		0.67	25.1	17	12.3	3.8	0.108	0.057	
SDC-1 Cert		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		0.2	1.6	0.2	< 0.1	< 0.1		2.30	101	27	5.2	1.3		0.038	0.02
GXR-6 Cert		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						1.3		2.85	895	10	16.6	3.8	0.271	0.063	
SAR-M (U.S.G.S.) Cert						9.78		2.7	982	7.83	17.2	3.57	0.38	0.07	
DNC-1a Meas			2.1							31			0.288		
DNC-1a Cert			2.0							31			0.29		
SBC-1 Meas		0.5	3.4	0.5	0.8	1.0		0.96	36.0	20	15.8	5.4	0.534		
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		
OREAS 45d (4-Acid) Meas										45			0.641	0.037	0.05
OREAS 45d (4-Acid) Cert										49.30			0.773	0.042	0.049
164136 Orig	0.5	0.3	2.0	0.3	< 0.1	< 0.1	0.043	0.12	5.6	19	4.3	1.2	0.709	0.144	0.75
164136 Dup	0.4	0.3	2.0	0.3	< 0.1	< 0.1	0.039	0.12	5.6	19	4.3	1.1	0.554	0.143	0.77
164147 Orig	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.032	0.38	5.3	2	0.2	0.2	0.0921	0.016	0.01
164147 Split	< 0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.1	0.045	0.38	5.3	1	0.2	0.2	0.0962	0.015	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