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No: 825, Corporate Site No: 23001.

Page: 1
Total # Pages: 9 (A - D)
Plus Appendix Pages
Finalized Date: 2-JAN-2019
Account: ACCELE

CERTIFICATE BU18302927

Project: Thomas Creek

This report is for 281 Drill Core samples submitted to our lab in Burnie, TAS, Australia on 29-NOV-2018.

The following have access to data associated with this certificate:

ANDY RUST

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LEV-01	Waste Disposal Levy
TRSPEC-20	Spectral Scan VNIR and SWIR
PUL-QC	Pulverizing QC Test
PUL-23	Pulv Sample - Split/Retain
BAG-01	Bulk Master for Storage
SPL-21	Split sample - riffle splitter
CRU-21	Crush entire sample

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS
Au-AA25	Ore Grade Au 30g FA AA finish AAS

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Cameron Brosnan, Laboratory Manager, Perth



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CERTIFICATE OF ANALYSIS BU18302927

Sample Description	Method Analyte Units LOD	WEI-21	Au-AA25	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
TCD544		3.60	<0.01	0.19	8.48	3.9	1780	0.94	0.52	0.04	<0.02	223	12.3	95	1.48
TCD545		4.34	0.01	0.29	8.89	9.9	1410	1.08	0.61	0.04	0.04	263	36.3	101	1.86
TCD546		3.63	<0.01	0.24	8.55	5.5	1920	0.84	0.39	0.04	0.04	214	51.0	76	1.30
TCD547		2.80	<0.01	0.14	8.52	8.5	1620	1.14	0.51	0.04	<0.02	179.5	99.4	88	1.49
TCD548		4.75	<0.01	0.20	8.18	7.2	1810	1.19	0.39	0.04	<0.02	198.0	83.1	80	1.37
TCD549		4.81	<0.01	0.64	8.20	4.8	1570	1.48	0.32	0.08	<0.02	217	46.3	90	1.50
TCD550		4.39	0.01	0.18	8.16	7.7	1460	1.96	0.50	0.07	<0.02	202	58.7	79	1.70
TCD551		2.60	<0.01	0.05	7.73	4.2	1500	1.72	0.21	0.08	<0.02	87.8	20.6	30	1.44
TCD552		4.12	<0.01	0.03	7.96	3.5	1420	1.87	0.18	0.08	<0.02	82.4	20.6	29	1.69
TCD553		2.71	<0.01	0.03	8.14	4.4	1410	2.07	0.17	0.11	<0.02	101.0	16.8	30	1.60
TCD554		2.43	<0.01	0.17	7.98	4.9	1320	1.74	0.16	0.07	0.03	94.7	35.1	34	1.85
TCD555		2.93	<0.01	0.03	7.87	4.8	1470	1.87	0.13	0.09	<0.02	82.9	21.3	28	1.67
TCD556		2.85	0.01	0.10	7.76	13.7	1670	1.67	0.80	0.10	<0.02	274	95.0	83	1.37
TCD557		2.30	0.01	0.10	7.67	7.5	1780	1.57	0.55	0.14	<0.02	344	84.4	94	1.22
TCD558		2.82	0.01	0.16	7.50	5.5	1180	1.75	0.31	0.13	<0.02	80.9	68.8	99	1.64
TCD559		2.28	<0.01	0.07	7.52	6.8	1330	1.54	0.30	0.19	<0.02	136.5	62.8	122	1.85
TCD560		4.80	0.01	0.08	7.15	5.2	1390	1.35	0.26	0.16	<0.02	142.0	55.0	111	1.53
TCD561		6.77	0.01	0.10	7.05	7.0	1680	1.24	0.35	0.13	<0.02	164.5	77.6	100	1.65
TCD562		6.63	<0.01	0.20	7.64	6.8	1540	1.57	0.27	0.17	<0.02	117.0	57.7	103	1.54
TCD563		6.60	0.01	0.14	7.19	6.7	1560	1.28	0.27	0.27	0.02	147.0	67.2	108	1.37
TCD564		8.02	<0.01	0.16	7.27	7.6	1150	1.29	0.30	0.31	<0.02	148.0	83.0	115	1.33
TCD565		6.76	0.01	0.13	7.19	7.3	1370	1.36	0.34	0.22	<0.02	146.0	67.4	112	1.66
TCD566		7.41	<0.01	0.08	7.25	7.8	1330	1.32	0.27	0.30	<0.02	153.5	72.3	111	1.23
TCD567		6.52	<0.01	0.06	7.08	8.1	1540	1.24	0.31	0.34	<0.02	145.0	62.2	95	1.22
TCD568		7.83	<0.01	0.05	7.26	7.8	1510	1.32	0.25	0.56	<0.02	149.5	41.6	102	1.91
TCD569		7.07	<0.01	0.05	7.51	8.9	1300	1.13	0.18	0.57	<0.02	53.2	45.1	105	1.90
TCD570		3.39	0.01	0.08	7.00	8.8	560	1.34	0.23	0.45	0.02	51.3	74.9	102	1.61
TCD571		3.52	<0.01	0.06	7.25	8.4	720	1.31	0.15	0.46	0.02	44.9	47.2	109	1.64
TCD572		4.10	<0.01	0.07	7.15	9.2	690	1.16	0.15	0.61	0.03	43.4	50.2	105	1.64
TCD573		3.48	<0.01	0.07	7.18	9.5	1620	0.83	0.20	0.55	<0.02	60.2	64.4	66	1.23
TCD574		3.00	<0.01	0.07	6.91	11.6	1460	1.23	0.37	0.27	0.02	72.5	134.5	94	1.30
TCD575		2.71	0.01	0.12	7.68	13.6	850	1.50	0.35	0.43	0.02	79.1	82.9	85	2.10
TCD576		3.88	<0.01	0.08	7.62	8.7	610	1.38	0.22	0.47	0.02	52.5	60.2	105	1.43
TCD577		3.95	0.01	0.09	7.27	7.3	1990	1.12	0.32	0.25	<0.02	51.8	70.4	102	1.12
TCD578		3.61	0.02	0.10	7.46	6.4	2850	1.21	0.25	0.16	<0.02	52.4	56.1	84	1.67
TCD579		3.09	0.01	0.08	7.47	7.1	1390	1.44	0.17	0.45	<0.02	39.6	50.0	79	2.32
TCD580		3.89	0.02	0.13	7.39	6.9	1910	1.23	0.25	0.24	<0.02	46.8	66.2	80	1.50
TCD581		3.25	0.01	0.11	7.59	6.3	1890	1.16	0.17	0.23	<0.02	55.0	55.6	88	1.68
TCD582		5.99	0.01	0.05	7.64	5.8	1700	1.10	0.14	0.33	<0.02	40.7	51.4	86	1.61
TCD583		7.18	0.01	0.08	7.23	6.0	1580	1.16	0.18	0.24	<0.02	69.1	64.6	81	1.48



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		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
TCD544		2.24	19.05	0.21	5.0	0.081	4.74	107.5	26.4	1.15	284	2.02	0.19	7.9	14.7	220
TCD545		3.18	19.60	0.25	4.8	0.093	4.08	133.0	33.8	1.76	377	2.56	0.15	8.4	24.2	200
TCD546		3.61	18.35	0.23	5.1	0.067	5.23	110.5	34.3	2.19	458	2.81	0.20	7.9	25.9	200
TCD547		4.59	18.85	0.22	4.6	0.058	4.71	90.7	43.5	2.76	562	3.38	0.21	7.0	37.7	190
TCD548		4.55	18.15	0.24	4.6	0.072	4.88	102.5	44.2	2.83	556	5.94	0.24	7.1	26.7	190
TCD549		4.53	18.35	0.26	4.8	0.073	4.73	113.5	41.3	2.86	558	2.01	0.37	7.6	21.1	190
TCD550		5.14	19.05	0.27	4.8	0.073	4.42	108.0	40.3	2.57	583	2.09	0.38	7.7	23.2	210
TCD551		3.10	15.15	0.17	3.3	0.038	4.85	42.7	20.6	1.09	438	0.67	1.13	10.2	16.9	270
TCD552		3.06	16.80	0.16	3.5	0.037	5.82	39.8	18.0	1.09	404	0.51	1.08	11.0	18.6	230
TCD553		3.31	17.05	0.17	3.5	0.037	5.83	47.4	18.6	1.18	442	0.39	1.38	11.0	17.7	320
TCD554		2.88	16.10	0.19	3.5	0.037	5.94	44.5	18.2	1.04	393	0.39	1.19	10.9	24.3	190
TCD555		2.99	15.85	0.15	3.4	0.038	5.62	39.2	18.3	1.16	421	0.25	1.21	10.7	16.5	220
TCD556		7.04	20.0	0.32	4.2	0.078	4.76	144.5	43.7	2.72	681	3.03	0.53	7.1	29.3	270
TCD557		8.00	18.10	0.36	4.4	0.085	4.59	177.0	45.7	2.88	588	5.28	0.70	6.7	42.6	270
TCD558		8.67	16.05	0.16	4.1	0.051	3.73	39.6	41.2	2.69	572	1.58	1.11	6.3	28.5	290
TCD559		8.68	17.25	0.24	4.4	0.060	3.68	70.7	45.3	3.05	780	1.14	0.82	5.9	28.6	320
TCD560		8.01	16.30	0.21	4.1	0.057	3.87	71.8	45.9	3.03	735	1.67	0.72	6.1	27.8	310
TCD561		8.92	15.55	0.27	4.0	0.043	4.27	85.7	41.5	2.97	652	2.25	0.57	5.8	29.4	350
TCD562		8.97	16.25	0.17	4.5	0.045	4.10	60.3	42.6	2.84	799	1.96	0.78	6.0	28.1	360
TCD563		8.80	15.85	0.22	4.4	0.052	3.98	78.4	39.4	2.80	841	1.63	0.80	6.2	29.4	420
TCD564		9.69	16.05	0.17	4.2	0.055	3.37	78.1	42.5	2.84	877	2.32	1.26	5.7	30.5	460
TCD565		9.24	15.80	0.19	4.2	0.063	3.93	75.8	42.0	2.74	879	1.54	1.02	5.9	30.0	440
TCD566		9.14	16.05	0.24	4.2	0.060	3.99	80.5	40.2	2.73	900	1.90	1.15	6.1	31.2	510
TCD567		9.69	15.30	0.17	4.0	0.056	4.15	76.2	37.0	2.57	891	3.31	1.11	6.4	28.2	540
TCD568		9.27	15.70	0.19	4.1	0.054	3.66	78.3	36.8	2.70	811	2.09	0.87	6.5	29.6	490
TCD569		9.42	15.70	0.14	4.2	0.043	3.41	25.8	37.0	2.78	825	1.38	1.13	6.9	40.0	520
TCD570		10.25	15.15	0.13	4.0	0.046	1.98	24.5	36.7	2.67	858	1.47	1.74	6.5	75.1	590
TCD571		10.80	16.20	0.12	4.0	0.044	2.32	21.6	37.7	2.77	940	1.37	1.79	7.0	45.8	490
TCD572		9.08	15.25	0.13	4.0	0.036	2.26	20.1	34.2	2.67	778	1.26	1.73	6.4	38.2	590
TCD573		8.65	14.60	0.14	4.0	0.033	5.02	28.1	29.6	2.13	703	1.08	1.01	6.1	76.1	630
TCD574		13.20	16.15	0.17	3.7	0.034	3.90	34.1	34.4	2.52	622	3.19	0.88	5.7	285	510
TCD575		10.50	18.20	0.15	3.1	0.045	2.56	37.7	34.8	2.77	574	4.80	1.13	5.6	187.5	1000
TCD576		9.09	17.60	0.14	3.6	0.039	2.37	25.4	39.1	2.91	620	1.66	1.91	6.1	82.2	500
TCD577		10.20	14.70	0.13	3.5	0.036	5.10	24.4	33.8	2.40	544	1.25	0.91	5.0	54.4	470
TCD578		10.20	15.75	0.17	3.1	0.047	5.53	24.0	31.2	2.76	588	3.19	0.36	5.7	39.3	460
TCD579		10.20	16.65	0.11	3.3	0.033	3.59	17.4	35.2	2.95	673	3.70	1.11	5.2	41.8	530
TCD580		10.10	14.95	0.14	3.2	0.039	4.87	20.9	34.3	2.81	772	3.01	0.97	5.7	35.0	560
TCD581		10.10	15.85	0.12	3.4	0.043	4.72	25.0	37.8	3.20	890	2.68	0.78	6.5	33.0	570
TCD582		10.15	16.20	0.12	3.2	0.040	5.28	18.6	40.8	3.22	886	1.77	0.87	6.4	31.0	520
TCD583		10.45	14.65	0.13	3.1	0.030	4.20	33.0	33.4	2.91	872	2.41	1.10	5.0	36.4	540



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		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
TCD544		10.1	159.5	<0.002	0.02	1.31	21.0	<1	5.3	114.0	0.55	0.09	12.40	0.415	7.1
TCD545		7.0	161.5	0.002	0.30	1.93	26.8	2	4.6	102.5	0.50	0.10	12.65	0.401	9.1
TCD546		7.4	179.5	0.002	0.28	1.64	23.9	<1	3.9	129.5	0.48	<0.05	12.40	0.387	9.3
TCD547		7.3	180.0	0.004	0.65	1.37	26.4	1	3.6	112.0	0.48	0.06	11.50	0.383	7.5
TCD548		5.8	188.0	0.002	0.45	1.18	27.4	<1	4.0	127.0	0.44	0.05	11.20	0.369	6.4
TCD549		4.4	179.5	<0.002	0.24	1.22	27.3	<1	3.6	135.0	0.48	<0.05	12.05	0.385	5.5
TCD550		6.1	164.5	<0.002	0.38	1.12	24.7	1	3.6	114.0	0.58	<0.05	12.50	0.363	5.4
TCD551		2.7	165.5	<0.002	0.07	0.87	10.0	<1	2.6	87.7	1.06	<0.05	16.35	0.218	7.0
TCD552		3.1	209	<0.002	0.08	0.95	10.4	<1	2.8	86.4	1.12	<0.05	17.30	0.223	6.5
TCD553		2.9	204	<0.002	0.07	0.93	10.3	<1	2.7	95.6	1.13	<0.05	17.80	0.231	6.8
TCD554		2.5	198.0	<0.002	0.09	0.91	10.4	<1	3.0	79.5	1.09	<0.05	17.95	0.228	6.7
TCD555		2.7	193.0	<0.002	0.05	0.99	10.0	<1	2.6	97.6	1.05	<0.05	17.10	0.218	6.7
TCD556		5.8	186.0	0.002	0.64	0.99	23.3	<1	4.5	117.5	0.59	<0.05	13.85	0.317	5.5
TCD557		4.3	155.0	0.004	0.55	1.07	27.2	1	3.9	125.5	0.41	<0.05	14.10	0.345	6.4
TCD558		3.0	155.5	0.002	0.36	1.05	22.1	<1	3.6	106.0	0.47	<0.05	11.10	0.308	5.2
TCD559		3.6	158.5	0.002	0.30	1.24	25.3	1	3.4	122.0	0.41	<0.05	11.95	0.334	4.7
TCD560		2.4	147.0	<0.002	0.28	1.09	23.5	1	3.2	104.5	0.44	<0.05	9.90	0.325	4.6
TCD561		3.3	142.5	0.002	0.44	0.93	23.0	<1	3.9	114.5	0.39	0.05	10.10	0.312	5.2
TCD562		3.9	152.0	0.003	0.32	1.05	22.5	<1	3.0	120.0	0.40	<0.05	9.15	0.327	5.0
TCD563		3.1	159.0	0.003	0.27	1.24	24.0	<1	3.5	145.5	0.43	<0.05	10.50	0.331	4.7
TCD564		3.7	147.5	0.002	0.32	1.30	22.9	1	3.2	149.5	0.42	0.08	9.54	0.323	5.1
TCD565		6.7	163.0	0.002	0.32	1.19	22.6	1	2.9	133.5	0.40	<0.05	10.65	0.322	5.3
TCD566		4.0	157.5	0.002	0.28	1.29	23.9	<1	2.8	142.5	0.44	<0.05	10.25	0.325	4.8
TCD567		5.7	158.5	<0.002	0.34	1.32	21.7	<1	3.1	154.5	0.43	<0.05	8.76	0.323	4.9
TCD568		5.7	158.5	0.002	0.19	1.22	23.2	<1	2.8	155.5	0.43	<0.05	9.04	0.345	4.2
TCD569		8.9	154.5	<0.002	0.16	0.98	24.5	1	2.9	166.0	0.47	<0.05	9.14	0.361	4.5
TCD570		6.9	124.5	0.002	0.29	1.03	21.0	1	2.9	144.5	0.42	<0.05	10.15	0.320	5.5
TCD571		3.2	136.0	<0.002	0.16	1.03	23.5	<1	3.3	160.0	0.44	<0.05	10.20	0.341	5.1
TCD572		3.2	131.0	0.002	0.20	1.02	22.3	<1	2.7	168.0	0.46	<0.05	9.36	0.327	4.0
TCD573		8.3	189.0	<0.002	0.35	1.03	21.6	<1	2.5	143.0	0.41	<0.05	9.13	0.329	5.1
TCD574		10.1	169.0	0.004	1.00	1.01	20.3	1	3.1	140.5	0.33	0.07	9.44	0.309	6.1
TCD575		16.2	160.5	0.005	0.82	0.98	23.2	1	3.1	141.0	0.30	0.05	8.68	0.375	4.5
TCD576		18.0	142.5	0.002	0.42	1.01	25.1	1	3.4	156.5	0.38	<0.05	8.67	0.351	3.7
TCD577		7.8	179.0	0.002	0.52	0.89	21.7	1	3.2	138.5	0.33	<0.05	8.79	0.319	4.5
TCD578		8.5	159.0	0.002	0.39	0.84	23.7	<1	3.8	115.5	0.39	<0.05	8.45	0.387	4.7
TCD579		7.0	154.5	0.002	0.27	0.78	23.9	<1	3.0	128.5	0.37	<0.05	8.38	0.381	4.4
TCD580		5.0	183.5	0.002	0.39	0.89	23.6	<1	3.9	127.5	0.38	<0.05	8.07	0.388	6.4
TCD581		3.6	179.0	0.002	0.28	0.90	26.0	<1	3.6	119.0	0.44	<0.05	8.79	0.404	4.8
TCD582		2.6	175.5	<0.002	0.24	1.18	24.0	<1	3.6	133.0	0.46	<0.05	8.26	0.399	4.0
TCD583		3.3	157.5	0.003	0.38	0.84	21.9	<1	3.0	108.0	0.34	0.05	8.11	0.368	4.1



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PUL-QC
		V	W	Y	Zn	Zr	Pass75um
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	% 0.01
TCD544		161	19.7	22.8	28	183.5	94.2
TCD545		183	13.1	27.1	44	174.5	
TCD546		161	14.5	24.6	58	183.5	
TCD547		179	12.6	27.9	64	164.5	
TCD548		182	11.9	29.6	57	173.5	
TCD549		193	10.2	31.3	56	179.5	
TCD550		184	8.2	32.3	61	169.0	
TCD551		74	5.5	23.6	35	107.0	
TCD552		77	5.5	20.2	35	112.5	
TCD553		78	5.2	28.0	36	114.0	
TCD554		77	6.0	25.3	36	115.0	
TCD555		74	5.4	26.6	34	113.5	
TCD556		162	14.6	32.0	68	150.5	
TCD557		202	13.7	35.6	66	168.5	
TCD558		178	6.8	22.1	64	155.0	
TCD559		172	7.7	26.6	98	167.5	
TCD560		161	8.3	24.6	96	150.5	
TCD561		161	11.1	23.6	88	146.5	
TCD562		179	8.6	22.7	104	168.5	
TCD563		158	8.3	25.8	105	158.5	
TCD564		164	11.5	22.0	112	167.0	
TCD565		163	9.4	23.8	108	152.0	
TCD566		157	8.1	27.9	104	149.5	
TCD567		155	7.1	24.2	98	153.5	
TCD568		161	5.1	30.9	86	150.5	
TCD569		186	3.1	26.6	90	151.5	
TCD570		304	4.4	24.2	89	145.5	
TCD571		174	3.4	27.7	101	150.0	
TCD572		196	5.5	26.1	85	147.5	
TCD573		155	7.0	25.3	64	157.0	
TCD574		432	9.8	20.4	62	135.0	
TCD575		314	9.9	27.6	59	115.5	
TCD576		191	9.1	32.2	64	132.0	
TCD577		170	12.0	21.4	54	132.5	
TCD578		267	17.1	24.0	61	108.5	
TCD579		203	10.1	27.1	66	112.0	
TCD580		193	11.4	29.6	84	109.5	
TCD581		188	9.9	29.3	97	116.5	
TCD582		197	8.3	24.4	91	111.5	
TCD583		194	9.1	22.1	101	111.5	92.8



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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-AA25 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
TCD584		7.06	0.01	0.07	7.07	7.1	1140	1.09	0.23	0.27	<0.02	50.2	62.9	84	1.33	331
TCD585		6.39	<0.01	0.05	7.21	5.7	980	1.10	0.17	0.31	<0.02	43.6	45.0	80	1.28	336
TCD586		7.55	<0.01	0.05	7.44	6.9	1450	1.11	0.22	0.31	<0.02	49.6	47.7	84	1.58	182.5
TCD587		7.07	<0.01	0.04	7.73	7.3	1410	1.25	0.17	0.73	0.02	65.8	35.7	80	2.53	133.0
TCD588		7.44	<0.01	0.05	7.84	7.4	1120	1.43	0.18	1.13	0.03	42.6	44.3	81	3.09	163.0
TCD589		7.49	<0.01	0.06	7.75	10.3	1550	1.36	0.20	0.65	<0.02	50.4	41.5	84	2.38	65.8
TCD590		7.02	<0.01	0.05	7.78	10.6	1080	1.35	0.16	1.33	<0.02	49.3	36.9	84	2.87	16.5
TCD591		4.55	<0.01	0.05	7.63	8.5	960	1.47	0.18	1.08	<0.02	49.4	39.0	84	4.08	26.6
TCD592		3.20	<0.01	0.09	7.62	8.6	650	1.44	0.27	1.22	<0.02	43.0	47.8	86	3.55	240
TCD593		8.13	<0.01	0.07	7.73	8.2	1400	1.43	0.23	0.72	<0.02	41.8	47.7	90	2.64	163.5
TCD594		6.79	<0.01	0.07	7.25	7.3	2680	0.95	0.20	0.25	0.02	42.8	48.0	90	1.41	233
TCD595		6.35	<0.01	0.08	7.20	7.1	3350	0.81	0.20	0.17	<0.02	48.0	31.5	98	1.23	271
TCD596		6.44	0.01	0.11	7.41	10.6	2870	0.81	0.36	0.26	0.04	56.3	71.3	95	1.45	545
TCD597		3.95	0.01	0.06	7.52	6.4	2660	0.99	0.17	0.26	0.03	64.8	55.8	89	1.63	305
TCD598		2.87	0.02	0.13	7.30	9.1	2350	1.11	0.27	0.42	0.04	32.4	100.0	86	1.97	654
TCD599		2.46	0.01	0.21	7.21	10.7	2630	1.05	0.38	0.36	0.03	70.7	82.4	92	1.57	523
TCD600		2.91	<0.01	0.22	7.25	9.4	3110	0.84	0.35	0.32	0.02	72.1	76.1	106	1.19	448
TCD601		2.17	<0.01	0.11	7.46	7.9	2920	0.85	0.34	0.28	<0.02	61.3	61.8	104	1.27	251
TCD602		2.85	<0.01	0.10	7.57	10.5	2980	0.78	0.33	0.35	<0.02	57.7	54.0	104	2.01	25.0
TCD603		2.33	0.01	0.13	7.00	22.5	2270	1.24	0.56	0.26	0.03	88.6	77.4	95	4.41	187.5
TCD604		1.74	0.01	0.11	7.17	16.8	3360	0.82	0.38	0.24	0.63	77.8	71.4	103	3.97	256
TCD605		2.49	0.01	0.16	7.53	16.2	3180	0.92	0.36	0.37	<0.02	118.0	59.8	110	1.47	261
TCD606		2.27	<0.01	0.06	7.22	11.3	2520	0.95	0.28	0.47	0.02	69.6	52.6	110	1.80	372
TCD607		3.18	0.02	0.22	7.10	76.5	2060	0.91	1.26	0.42	0.04	64.3	110.0	107	1.77	563
TCD608		4.43	0.01	0.02	7.35	9.8	1950	1.42	0.18	0.66	<0.02	64.8	43.8	102	3.74	48.0
TCD609		3.44	<0.01	0.05	7.51	15.9	2580	0.98	0.39	0.40	0.02	75.9	65.7	112	3.39	57.5
TCD610		2.99	0.01	0.17	7.60	25.9	3320	0.82	0.65	0.34	0.04	93.9	84.0	112	2.60	575
TCD611		2.71	0.02	0.15	7.50	64.7	760	0.88	0.93	0.30	0.59	56.9	131.0	106	1.77	615
TCD612		2.76	<0.01	0.10	7.42	11.3	2770	0.98	0.32	0.48	0.64	77.2	57.8	102	1.93	181.5
TCD613		4.28	<0.01	0.05	7.31	11.6	2330	1.13	0.33	0.67	<0.02	56.5	49.0	104	2.01	74.1
TCD614		3.92	<0.01	0.05	7.43	12.4	970	1.66	0.30	1.54	0.02	62.9	45.5	103	2.59	13.2
TCD615		4.22	<0.01	0.05	7.26	10.7	1400	1.48	0.26	1.57	<0.02	70.9	43.1	99	1.63	69.3
TCD616		3.64	<0.01	0.04	7.29	9.5	1840	1.29	0.25	1.13	0.03	78.8	52.9	92	1.97	206
TCD617		3.76	0.01	0.04	7.10	7.8	1790	1.08	0.17	0.88	<0.02	51.3	42.4	94	1.98	219
TCD618		3.43	<0.01	0.04	7.63	7.4	1410	1.33	0.28	0.79	<0.02	69.1	50.1	98	2.19	219
TCD619		3.23	0.01	0.08	7.56	9.0	2430	1.06	0.31	0.82	0.04	100.5	61.8	109	1.49	124.5
TCD620		3.90	<0.01	0.11	7.34	8.3	2390	0.93	0.32	0.65	<0.02	82.5	60.4	105	1.13	319
TCD621		4.06	0.01	0.10	7.86	10.6	1280	1.35	0.25	1.10	0.04	43.3	48.4	95	2.35	476
TCD622		3.37	<0.01	0.07	7.59	8.9	1900	1.12	0.24	0.58	0.03	51.3	56.8	84	2.50	191.5
TCD623		4.17	<0.01	0.07	7.19	9.8	2040	0.97	0.22	0.60	<0.02	88.0	125.5	88	1.66	17.9



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
TCD584		9.33	15.50	0.11	3.4	0.036	3.88	23.3	37.0	2.82	806	2.22	1.37	6.0	41.6	570
TCD585		9.33	15.85	0.12	3.3	0.041	3.18	20.0	40.6	2.95	889	2.05	1.71	5.9	30.9	520
TCD586		10.00	16.00	0.12	3.4	0.036	4.01	22.6	36.9	2.88	931	2.51	1.31	5.9	33.9	560
TCD587		10.20	15.65	0.14	3.9	0.034	3.85	32.5	32.1	2.81	940	2.25	1.09	5.7	27.8	560
TCD588		10.40	16.10	0.11	3.3	0.032	2.90	18.6	31.1	3.06	943	2.04	1.35	5.5	33.9	560
TCD589		10.65	16.60	0.13	3.4	0.034	4.36	22.4	33.0	2.95	857	2.37	1.05	6.5	44.8	560
TCD590		10.25	17.00	0.12	3.3	0.034	3.11	22.5	30.4	2.80	770	3.00	1.35	6.3	43.4	610
TCD591		11.30	17.40	0.16	3.2	0.034	2.66	23.1	30.9	2.83	771	1.43	0.97	6.3	50.2	590
TCD592		10.90	17.25	0.12	3.2	0.040	2.30	18.6	31.8	2.85	704	2.25	1.56	6.1	69.7	520
TCD593		11.35	16.45	0.13	3.4	0.037	3.74	18.5	30.4	2.91	742	2.70	1.15	6.3	76.8	660
TCD594		10.50	14.30	0.13	3.5	0.034	5.47	19.9	26.9	2.57	760	4.74	0.35	6.3	72.6	520
TCD595		10.25	14.55	0.13	3.6	0.028	5.29	22.6	23.7	2.51	753	4.23	0.17	6.4	75.0	560
TCD596		10.05	15.50	0.14	3.7	0.037	5.24	26.0	27.8	2.76	828	3.96	0.24	6.7	110.0	900
TCD597		10.20	15.65	0.20	3.3	0.034	5.65	30.1	26.9	2.71	875	2.54	0.28	6.2	52.6	580
TCD598		10.65	15.85	0.10	3.3	0.036	5.22	14.8	25.7	2.55	763	3.06	0.35	5.9	66.7	610
TCD599		10.85	15.55	0.16	3.4	0.038	5.69	34.4	26.0	2.53	715	3.86	0.33	6.7	67.4	760
TCD600		8.89	14.45	0.15	3.5	0.048	5.73	34.3	26.5	2.77	659	3.60	0.17	6.3	61.0	730
TCD601		8.17	14.60	0.14	3.5	0.038	5.78	29.6	28.5	2.87	712	2.93	0.17	6.1	53.6	610
TCD602		7.63	14.15	0.14	3.7	0.034	6.00	29.0	27.7	2.90	788	1.97	0.23	5.8	53.3	700
TCD603		10.20	15.35	0.18	3.5	0.037	5.19	46.1	27.6	2.52	687	1.60	0.39	5.8	38.9	510
TCD604		9.26	14.40	0.14	3.7	0.031	5.03	41.3	24.5	2.43	473	1.30	0.22	6.1	25.2	500
TCD605		9.83	15.10	0.21	3.7	0.041	5.43	62.4	25.3	2.49	609	1.29	0.23	6.2	28.8	570
TCD606		8.95	14.45	0.15	3.6	0.028	5.62	34.9	30.4	2.60	616	1.80	0.25	6.3	34.2	530
TCD607		9.53	13.95	0.15	3.5	0.044	5.35	32.9	26.6	2.46	599	0.80	0.18	6.9	64.7	550
TCD608		9.78	15.85	0.14	3.7	0.026	4.92	33.0	33.0	2.91	859	0.73	0.34	6.0	27.1	540
TCD609		9.33	15.80	0.16	3.7	0.022	5.83	38.9	29.0	2.71	732	1.28	0.31	6.4	31.4	530
TCD610		9.40	14.60	0.18	3.8	0.031	6.13	49.3	23.6	2.43	635	5.91	0.20	7.8	38.9	540
TCD611		10.30	14.15	0.15	3.7	0.031	6.38	29.0	24.4	2.46	532	1.72	0.20	6.4	43.1	560
TCD612		8.44	15.25	0.19	3.6	0.027	6.31	42.0	30.4	2.64	581	0.83	0.36	6.4	24.5	530
TCD613		8.45	14.90	0.16	3.7	0.021	5.72	29.8	30.8	2.54	619	0.90	0.41	6.4	35.6	530
TCD614		8.28	15.20	0.13	3.3	0.032	3.18	33.8	34.4	2.59	680	0.54	0.92	6.1	35.4	540
TCD615		8.64	15.30	0.18	3.5	0.034	4.14	37.2	36.9	2.50	689	1.99	0.59	5.8	36.4	570
TCD616		9.04	14.85	0.16	3.8	0.030	4.89	41.3	34.3	2.43	717	4.10	0.52	6.4	55.1	550
TCD617		8.88	14.40	0.16	4.1	0.035	4.93	26.3	40.3	2.65	742	3.38	0.48	6.6	37.1	520
TCD618		8.80	15.05	0.13	3.9	0.036	4.70	34.5	37.6	2.60	594	1.47	0.82	5.9	34.3	520
TCD619		9.62	15.40	0.23	3.9	0.034	5.87	51.7	34.2	2.75	638	3.74	0.40	6.5	69.3	830
TCD620		10.25	14.35	0.21	3.6	0.049	5.91	43.2	35.2	2.56	692	3.05	0.37	6.6	81.5	740
TCD621		9.13	15.75	0.12	3.4	0.028	3.63	20.5	35.1	2.80	663	3.06	0.95	6.6	68.7	850
TCD622		9.67	15.95	0.14	3.7	0.046	5.38	25.8	43.3	2.94	981	4.71	0.55	6.1	79.1	660
TCD623		10.25	15.10	0.22	3.3	0.041	5.56	45.6	45.1	2.79	1040	5.02	0.30	6.8	86.7	700



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
TCD584		3.5	157.0	<0.002	0.42	1.08	24.3	<1	2.7	105.5	0.41	0.06	8.58	0.396	4.6
TCD585		2.5	125.0	0.002	0.25	1.12	23.9	<1	3.0	109.0	0.42	<0.05	8.52	0.379	4.4
TCD586		3.0	156.5	0.004	0.29	1.20	25.0	<1	3.1	120.0	0.40	<0.05	8.38	0.394	4.7
TCD587		3.4	153.5	0.002	0.19	1.07	23.5	<1	2.4	147.0	0.43	<0.05	9.09	0.382	5.0
TCD588		5.4	143.5	0.003	0.25	0.94	23.6	<1	2.7	173.5	0.37	<0.05	8.07	0.392	4.4
TCD589		8.0	191.0	0.002	0.25	1.15	23.3	<1	4.2	175.0	0.44	<0.05	8.27	0.408	13.0
TCD590		9.4	171.5	0.002	0.21	1.21	23.1	<1	3.5	183.5	0.46	<0.05	9.10	0.405	5.3
TCD591		15.3	169.5	<0.002	0.34	1.28	23.5	<1	3.1	167.0	0.42	<0.05	9.01	0.392	4.2
TCD592		13.5	157.0	0.002	0.41	1.16	23.6	<1	3.2	183.5	0.41	<0.05	8.68	0.390	3.9
TCD593		12.7	173.0	0.002	0.39	1.09	23.5	<1	3.5	175.5	0.43	<0.05	8.93	0.398	3.9
TCD594		6.9	159.5	0.003	0.42	0.93	21.8	<1	3.7	127.5	0.43	<0.05	7.94	0.366	4.7
TCD595		4.5	127.0	0.002	0.35	1.02	23.4	<1	4.2	103.5	0.43	<0.05	9.69	0.372	7.0
TCD596		10.3	132.5	0.003	1.00	0.95	23.8	<1	4.0	108.0	0.44	0.05	10.60	0.376	5.3
TCD597		9.2	179.0	0.002	0.51	0.83	23.6	<1	3.6	135.0	0.39	<0.05	8.34	0.397	4.6
TCD598		14.0	201	0.002	0.74	0.89	22.9	<1	3.7	144.0	0.41	0.05	8.37	0.367	4.7
TCD599		33.5	179.0	0.004	0.99	1.07	24.8	<1	4.5	124.0	0.41	0.05	8.43	0.369	4.8
TCD600		6.6	143.5	0.003	0.73	0.98	24.0	<1	3.8	132.5	0.44	0.09	9.66	0.381	4.2
TCD601		5.6	139.5	0.003	0.59	0.87	25.6	<1	3.0	125.5	0.43	0.08	8.96	0.392	4.4
TCD602		3.6	148.5	<0.002	0.65	0.91	25.7	<1	2.5	123.0	0.43	0.13	8.12	0.408	4.8
TCD603		5.0	162.5	0.004	0.80	0.82	25.5	<1	2.3	127.0	0.44	0.15	8.06	0.374	5.3
TCD604		9.5	137.5	0.002	0.64	0.73	24.3	<1	1.6	157.0	0.45	0.10	8.48	0.389	5.3
TCD605		5.1	132.0	<0.002	0.50	1.05	25.1	<1	1.9	181.5	0.44	0.11	9.45	0.404	5.1
TCD606		2.9	151.5	0.003	0.52	0.83	25.7	<1	2.2	168.0	0.44	0.05	8.42	0.400	5.3
TCD607		15.1	141.5	0.007	1.47	1.14	22.5	1	2.1	184.0	0.44	0.10	8.48	0.373	5.5
TCD608		2.9	185.5	<0.002	0.42	0.80	28.2	<1	2.1	161.5	0.44	<0.05	9.03	0.403	4.9
TCD609		5.9	170.0	0.002	0.63	0.70	27.0	<1	2.1	161.5	0.44	0.11	9.10	0.407	5.7
TCD610		12.1	149.0	0.006	1.05	1.02	25.5	<1	2.1	176.0	0.52	0.33	9.86	0.414	18.2
TCD611		10.7	134.5	0.010	1.93	0.79	23.9	<1	2.0	168.5	0.45	0.51	7.91	0.396	7.7
TCD612		10.3	160.5	0.002	0.66	0.79	25.2	1	1.7	173.0	0.45	<0.05	9.41	0.386	4.9
TCD613		4.6	167.0	<0.002	0.56	0.74	25.6	<1	1.6	175.5	0.44	0.06	8.66	0.395	4.4
TCD614		8.5	179.5	<0.002	0.60	0.85	26.1	<1	1.7	146.5	0.43	<0.05	7.84	0.400	3.5
TCD615		3.2	178.0	<0.002	0.47	0.94	24.6	<1	2.6	156.0	0.41	0.07	8.58	0.377	4.9
TCD616		4.3	195.5	0.003	0.44	1.20	24.3	<1	2.4	173.5	0.41	<0.05	9.24	0.374	5.8
TCD617		2.7	177.0	0.004	0.33	1.00	22.8	<1	3.1	177.0	0.47	<0.05	8.03	0.350	5.8
TCD618		2.7	208	<0.002	0.50	1.05	24.2	1	2.4	177.0	0.42	<0.05	9.37	0.382	4.8
TCD619		10.6	175.5	0.002	0.77	0.82	24.6	<1	2.9	161.5	0.42	0.10	9.06	0.380	5.7
TCD620		5.0	201	0.004	0.80	0.84	21.7	1	3.1	160.0	0.39	0.06	9.44	0.354	5.4
TCD621		9.4	164.5	<0.002	0.54	0.88	24.1	1	2.6	179.5	0.45	0.05	8.43	0.402	5.0
TCD622		8.1	215	0.003	0.56	0.87	23.8	<1	3.2	153.0	0.42	0.07	8.81	0.387	6.3
TCD623		2.9	204	0.004	0.75	0.93	22.8	1	3.6	161.5	0.45	0.10	9.06	0.370	8.4



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PUL-QC
		V	W	Y	Zn	Zr	Pass75um
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	% 0.01
TCD584		218	8.5	18.8	90	121.0	
TCD585		183	7.9	22.2	100	119.5	
TCD586		190	8.1	21.5	104	115.0	
TCD587		189	5.2	23.2	98	138.0	
TCD588		199	4.9	21.5	93	115.0	
TCD589		208	5.9	31.0	90	114.5	
TCD590		223	5.4	26.8	73	113.0	
TCD591		290	5.1	23.7	73	107.5	
TCD592		283	6.5	24.9	59	113.0	
TCD593		306	6.9	25.4	70	117.0	
TCD594		245	8.3	21.2	73	119.0	
TCD595		284	8.1	28.7	77	125.0	
TCD596		302	11.7	25.6	94	129.0	
TCD597		217	12.1	25.2	97	119.0	
TCD598		213	14.1	23.9	87	116.5	
TCD599		247	17.5	29.9	86	115.5	
TCD600		256	10.1	19.6	73	122.0	
TCD601		194	5.0	16.1	71	124.5	
TCD602		171	3.6	14.8	72	125.5	
TCD603		177	2.6	17.3	62	121.0	
TCD604		181	1.7	14.1	87	124.5	
TCD605		197	2.7	19.6	76	130.0	
TCD606		190	3.1	17.2	64	130.0	
TCD607		178	2.3	18.0	72	123.5	
TCD608		187	2.2	18.2	82	125.5	
TCD609		191	2.3	16.9	68	133.0	
TCD610		194	4.2	18.9	70	130.5	
TCD611		186	3.5	16.1	117	130.0	
TCD612		181	2.7	16.7	117	130.5	
TCD613		185	1.7	13.6	69	131.0	
TCD614		171	1.5	13.7	72	126.0	
TCD615		189	3.7	17.3	74	128.0	
TCD616		225	5.4	17.1	69	142.5	
TCD617		178	6.4	20.2	72	146.5	
TCD618		171	7.5	15.5	60	140.0	
TCD619		199	5.7	18.6	66	135.0	
TCD620		216	7.0	17.8	82	141.0	
TCD621		239	8.5	18.8	88	123.0	
TCD622		251	7.7	19.5	103	137.0	
TCD623		272	5.2	22.9	96	123.0	81.0



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Sample Description	Method Analyte Units LOD	WEI-21	Au-AA25	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
TCD624		4.27	0.02	0.10	7.44	7.6	1650	1.19	0.17	0.80	0.05	57.3	44.3	167	1.87
TCD625		2.02	<0.01	0.08	6.93	8.2	1810	0.99	0.13	0.86	0.02	66.7	66.5	83	1.48
TCD626		2.06	0.01	0.13	6.92	9.8	1940	0.85	0.23	0.68	0.02	107.0	113.5	106	0.89
TCD627		1.94	<0.01	0.03	7.23	8.2	900	1.19	0.22	0.91	0.02	55.2	52.3	102	1.09
TCD628		1.78	<0.01	0.12	7.14	17.8	1090	1.32	0.45	1.23	<0.02	80.8	65.2	77	1.05
TCD629		3.47	<0.01	0.08	7.52	12.5	620	1.46	0.25	1.67	0.02	65.1	53.6	103	2.09
TCD630		3.89	0.01	0.05	7.43	9.3	1090	1.10	0.14	1.59	<0.02	55.9	33.1	96	1.96
TCD631		4.18	<0.01	0.06	7.51	9.5	710	1.36	0.21	1.70	<0.02	62.5	43.7	92	1.93
TCD632		4.42	0.01	0.10	7.94	9.0	770	1.46	0.21	1.74	0.02	60.7	41.0	89	2.23
TCD633		4.04	<0.01	0.05	7.67	8.3	740	1.40	0.15	1.89	<0.02	54.2	32.3	86	2.46
TCD634		3.67	<0.01	0.03	7.72	8.3	1350	1.14	0.16	1.53	0.03	58.9	39.1	95	1.85
TCD635		4.02	<0.01	0.07	7.49	9.0	730	1.57	0.38	1.69	0.02	108.5	43.7	102	2.42
TCD636		4.21	<0.01	0.07	7.92	8.0	1160	1.45	0.27	1.61	<0.02	83.3	37.8	104	1.81
TCD637		3.64	0.01	0.07	7.46	7.5	1110	1.40	0.21	1.52	0.17	49.8	32.5	130	2.21
TCD638		2.94	<0.01	0.05	7.42	7.7	910	1.28	0.39	1.30	<0.02	134.5	44.3	116	2.14
TCD639		2.17	0.02	0.14	7.40	6.4	960	1.33	0.22	0.95	<0.02	238	28.9	115	2.64
TCD640		1.79	0.01	0.14	7.28	6.2	1390	1.12	0.21	0.99	<0.02	103.0	55.2	94	1.13
TCD641		1.95	<0.01	0.03	7.59	6.6	1520	1.09	0.29	1.21	<0.02	112.0	45.5	95	1.07
TCD642		1.70	<0.01	0.05	7.79	6.2	1320	0.89	0.21	1.24	<0.02	82.5	34.6	98	0.92
TCD643		2.23	<0.01	0.04	7.70	8.6	1100	1.34	0.28	1.49	<0.02	138.0	52.5	108	1.55
TCD644		2.05	<0.01	0.03	7.40	7.9	960	1.55	0.22	1.82	<0.02	63.2	52.0	99	3.20
TCD645		3.41	<0.01	0.03	8.05	8.5	900	1.09	0.15	2.31	0.03	68.1	43.6	63	3.41
TCD646		4.00	<0.01	0.03	7.37	8.5	700	1.30	0.19	1.84	<0.02	75.3	43.9	105	5.67
TCD647		4.05	<0.01	0.02	7.33	10.0	970	1.34	0.29	1.49	<0.02	88.1	45.6	112	3.66
TCD648		3.63	<0.01	0.05	7.26	9.5	1610	1.20	0.29	1.33	<0.02	62.4	59.4	89	1.98
TCD649		4.18	<0.01	0.08	7.31	13.2	2020	1.09	0.50	1.49	0.02	75.0	86.2	92	1.39
TCD650		3.34	<0.01	0.03	7.55	10.5	1360	1.21	0.25	1.69	<0.02	70.7	41.6	103	2.08
TCD651		4.98	<0.01	0.01	7.76	11.8	1060	1.34	0.26	2.13	<0.02	76.3	42.4	96	2.54
TCD652		4.15	<0.01	0.03	7.95	12.3	1080	1.14	0.31	2.25	<0.02	51.3	42.5	73	2.35
TCD653		4.03	<0.01	0.04	7.74	9.5	1030	1.24	0.25	2.61	<0.02	55.2	34.7	86	1.92
TCD654		3.99	0.01	0.02	7.25	10.3	920	1.10	0.25	2.44	<0.02	52.4	42.7	93	1.85
TCD655		3.86	<0.01	0.03	7.76	11.8	740	1.43	0.27	2.48	0.06	63.8	62.3	75	2.12
TCD656		4.19	0.01	0.05	8.34	12.4	620	1.06	0.25	2.91	0.03	63.7	40.5	64	1.96
TCD657		3.95	0.01	0.03	8.02	10.2	800	1.15	0.11	2.49	0.03	55.9	25.7	66	1.64
TCD658		3.68	<0.01	0.02	8.11	10.5	740	1.14	0.14	2.56	0.04	60.8	25.7	78	1.50
TCD659		3.35	0.01	0.02	7.43	7.8	770	1.29	0.17	1.55	0.02	61.2	28.9	84	1.56
TCD660		3.49	<0.01	0.01	7.93	11.1	850	1.35	0.17	1.68	0.02	113.0	41.2	87	4.05
TCD661		3.65	<0.01	0.06	7.71	11.1	870	1.33	0.24	1.62	<0.02	71.5	47.9	92	4.57
TCD662		3.82	<0.01	0.04	7.45	10.5	1110	1.23	0.38	2.01	<0.02	85.1	42.5	104	1.96
TCD663		4.09	0.01	0.11	7.91	26.9	890	1.40	0.72	2.36	0.23	80.4	59.5	82	2.35



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
TCD624		9.02	15.90	0.18	4.4	0.093	5.37	26.9	45.5	3.41	905	1.41	0.71	8.4	44.5	630
TCD625		9.33	15.10	0.18	4.3	0.042	5.08	34.1	32.4	2.40	818	3.60	0.56	6.5	58.4	560
TCD626		9.97	14.10	0.22	4.0	0.059	5.72	57.5	43.6	2.35	1020	6.34	0.31	5.1	77.7	620
TCD627		8.23	16.05	0.18	4.1	0.061	3.77	28.0	41.8	2.61	1010	2.90	1.10	6.9	58.2	530
TCD628		9.72	15.85	0.19	4.5	0.053	3.79	42.1	37.6	2.54	957	4.79	1.03	7.2	126.5	1050
TCD629		8.68	16.45	0.16	4.3	0.057	2.64	31.9	38.2	2.81	901	2.75	1.31	7.5	56.4	570
TCD630		8.03	15.05	0.14	4.1	0.036	3.40	28.0	32.4	2.76	709	1.16	1.08	7.0	23.8	520
TCD631		8.30	15.75	0.17	3.8	0.035	2.79	31.3	33.9	2.71	735	1.47	1.35	7.0	29.5	550
TCD632		8.56	16.10	0.11	3.7	0.039	2.62	29.8	30.7	2.61	655	0.63	1.51	7.3	23.9	570
TCD633		8.19	16.35	0.14	3.9	0.033	2.47	27.2	28.8	2.48	583	0.57	1.52	6.8	19.1	490
TCD634		7.64	14.55	0.15	3.7	0.023	4.06	30.3	24.6	1.98	526	1.30	1.34	6.2	22.0	530
TCD635		7.64	16.00	0.17	4.1	0.047	2.50	59.8	31.3	2.50	603	1.00	1.44	7.1	40.8	490
TCD636		7.65	16.30	0.19	4.2	0.041	3.91	43.4	30.2	2.14	562	1.07	1.40	7.3	30.4	560
TCD637		9.96	15.55	0.16	4.2	0.040	3.22	24.8	28.5	2.23	538	1.15	1.40	6.1	23.3	490
TCD638		8.33	16.35	0.22	3.9	0.049	3.05	77.3	32.4	2.49	540	1.55	1.22	6.4	37.2	500
TCD639		8.69	16.95	0.28	4.2	0.064	3.53	137.5	33.2	2.43	582	1.58	1.11	7.7	23.0	520
TCD640		6.72	13.00	0.20	3.8	0.044	4.86	55.9	21.7	1.44	472	3.51	1.31	8.4	27.8	510
TCD641		7.15	13.75	0.21	3.7	0.035	5.37	60.4	22.4	1.46	479	2.67	1.21	7.2	33.2	550
TCD642		6.56	13.90	0.17	3.6	0.044	5.05	43.9	26.9	1.84	593	1.66	1.45	7.1	24.7	520
TCD643		8.88	16.00	0.26	4.3	0.064	3.77	78.4	30.9	2.36	604	2.27	1.49	7.6	30.1	540
TCD644		9.08	15.85	0.18	4.1	0.043	2.73	33.6	31.3	2.52	627	1.59	1.20	6.6	27.6	500
TCD645		9.51	15.95	0.19	3.3	0.038	2.92	35.2	30.5	2.70	657	1.14	1.29	6.6	27.5	540
TCD646		8.89	16.50	0.20	3.6	0.048	2.57	39.3	31.8	2.69	641	1.86	1.12	6.7	39.9	470
TCD647		9.58	16.30	0.20	3.6	0.055	3.19	47.3	33.0	2.52	751	2.40	1.18	6.4	41.6	480
TCD648		9.56	15.10	0.19	3.4	0.039	4.44	30.0	26.4	1.88	688	3.44	1.04	6.2	44.2	510
TCD649		9.99	14.90	0.19	3.0	0.043	4.86	37.8	22.3	1.74	609	3.61	0.99	5.6	127.0	1330
TCD650		8.72	15.60	0.17	3.8	0.038	3.63	35.8	26.6	2.08	575	1.73	1.13	6.3	28.4	500
TCD651		9.01	17.15	0.21	3.9	0.042	2.93	39.6	29.2	2.43	689	2.06	1.20	6.8	32.5	540
TCD652		8.07	16.00	0.16	3.4	0.040	3.29	24.3	26.6	2.35	634	1.01	1.24	6.9	34.0	530
TCD653		8.01	15.85	0.17	3.6	0.047	3.50	25.3	23.7	2.30	632	1.03	1.35	7.2	27.6	520
TCD654		9.05	15.10	0.21	3.7	0.046	3.15	24.6	27.0	2.23	625	1.06	1.17	6.5	48.9	600
TCD655		8.02	17.00	0.13	3.6	0.038	2.52	31.5	25.9	2.30	495	1.70	1.53	7.0	51.5	580
TCD656		8.26	17.35	0.16	3.2	0.037	2.51	30.6	25.3	2.20	519	1.03	1.73	6.6	32.5	550
TCD657		8.01	16.15	0.15	3.3	0.049	3.10	26.8	24.0	2.24	578	1.19	1.69	6.6	17.4	530
TCD658		7.52	16.45	0.15	3.3	0.043	2.46	28.5	21.8	2.24	555	1.23	1.96	6.8	22.4	510
TCD659		7.92	16.00	0.16	4.0	0.041	3.09	29.9	29.7	2.63	607	1.13	1.68	6.5	21.9	490
TCD660		7.78	16.80	0.20	3.5	0.035	3.26	62.9	28.0	2.16	584	1.57	1.66	7.0	33.5	530
TCD661		8.07	16.00	0.20	3.7	0.029	3.44	37.9	22.6	1.83	503	1.99	1.32	6.7	40.2	520
TCD662		8.09	15.10	0.19	3.8	0.039	3.95	43.2	23.5	1.99	501	1.15	1.22	6.5	34.5	520
TCD663		8.54	16.70	0.24	3.2	0.044	2.94	42.9	22.8	2.10	548	1.34	1.66	7.4	44.8	560

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
TCD624		2.4	166.0	<0.002	0.27	0.92	24.2	1	2.7	144.5	0.56	<0.05	10.25	0.370	6.4
TCD625		3.4	182.5	<0.002	0.47	0.88	21.8	<1	2.1	208	0.45	<0.05	9.58	0.341	5.3
TCD626		3.2	211	0.002	0.76	1.11	23.4	<1	2.5	153.5	0.40	0.07	11.00	0.317	5.8
TCD627		2.2	190.5	0.003	0.46	1.00	23.4	1	2.6	205	0.47	0.09	8.79	0.344	5.7
TCD628		34.5	183.0	0.003	0.83	1.27	23.3	1	3.6	242	0.44	0.09	12.65	0.348	11.1
TCD629		11.4	168.0	0.002	0.38	1.20	25.1	<1	2.8	232	0.51	<0.05	9.66	0.364	4.9
TCD630		5.8	151.5	<0.002	0.22	0.91	23.6	<1	2.3	242	0.48	<0.05	9.51	0.362	4.0
TCD631		9.2	148.0	<0.002	0.31	1.04	24.5	<1	2.4	248	0.50	<0.05	9.47	0.392	4.2
TCD632		25.1	143.5	<0.002	0.26	0.99	24.9	<1	2.7	232	0.51	<0.05	9.33	0.404	4.3
TCD633		5.9	141.5	<0.002	0.15	1.19	25.4	<1	2.3	237	0.50	<0.05	8.52	0.397	4.0
TCD634		4.9	181.5	0.002	0.21	0.76	23.3	1	2.2	239	0.46	<0.05	9.27	0.395	4.4
TCD635		4.4	137.5	0.005	0.41	0.93	25.4	<1	2.1	220	0.47	<0.05	9.77	0.366	4.2
TCD636		3.3	173.5	0.007	0.34	0.90	29.4	<1	2.4	247	0.53	<0.05	9.62	0.392	4.1
TCD637		4.8	145.0	0.006	0.26	0.76	24.2	<1	2.1	203	0.48	<0.05	10.15	0.360	4.0
TCD638		3.6	144.5	0.010	0.42	0.81	25.4	1	2.0	188.0	0.48	0.05	9.20	0.359	3.7
TCD639		3.4	166.5	0.002	0.20	0.73	26.8	1	2.3	171.0	0.55	<0.05	9.18	0.366	4.3
TCD640		4.7	178.5	0.006	0.37	0.78	20.6	<1	4.0	196.0	0.56	<0.05	8.87	0.367	5.5
TCD641		3.8	197.5	0.008	0.38	0.78	23.4	<1	4.0	234	0.46	<0.05	9.74	0.391	4.2
TCD642		3.8	197.5	0.002	0.24	0.84	24.4	<1	2.9	253	0.54	<0.05	8.24	0.400	3.3
TCD643		6.0	148.5	0.003	0.28	0.90	25.5	1	2.9	238	0.50	0.05	9.61	0.366	4.7
TCD644		5.0	132.0	<0.002	0.20	0.81	23.3	<1	2.2	240	0.47	<0.05	9.08	0.359	3.1
TCD645		4.0	154.0	<0.002	0.20	0.84	23.0	<1	3.1	248	0.43	<0.05	7.70	0.415	3.3
TCD646		4.7	142.5	0.003	0.23	0.70	24.8	<1	2.6	198.0	0.46	<0.05	8.86	0.359	3.8
TCD647		9.8	160.5	0.002	0.30	1.08	25.2	<1	2.9	232	0.46	0.06	9.14	0.351	3.7
TCD648		7.8	168.0	<0.002	0.54	0.81	26.0	1	3.0	225	0.40	0.10	8.49	0.371	5.7
TCD649		7.0	173.0	0.004	1.06	0.77	22.7	1	2.0	203	0.38	0.16	8.60	0.362	4.7
TCD650		3.1	153.5	<0.002	0.33	0.99	24.6	1	2.4	210	0.45	0.10	9.03	0.365	3.5
TCD651		4.8	134.0	<0.002	0.32	1.06	24.7	1	2.4	228	0.43	0.06	9.73	0.376	3.5
TCD652		4.2	145.0	0.002	0.45	0.64	22.4	<1	2.7	228	0.46	0.06	8.42	0.391	3.5
TCD653		2.6	151.5	0.002	0.35	0.77	23.0	<1	2.7	244	0.47	<0.05	8.67	0.378	3.7
TCD654		5.1	141.5	<0.002	0.39	0.72	22.0	<1	2.5	211	0.47	0.07	8.06	0.378	3.3
TCD655		4.4	127.5	<0.002	0.55	0.69	26.5	1	2.8	216	0.46	<0.05	8.92	0.401	3.8
TCD656		4.1	136.5	<0.002	0.47	0.69	25.4	1	2.1	240	0.42	<0.05	8.44	0.434	3.6
TCD657		2.2	154.0	0.003	0.14	0.70	27.2	<1	1.9	247	0.43	<0.05	8.08	0.421	3.8
TCD658		3.4	121.5	<0.002	0.17	0.66	26.7	<1	1.8	245	0.47	<0.05	8.85	0.424	3.7
TCD659		2.2	147.5	<0.002	0.15	0.73	24.2	1	2.1	223	0.48	<0.05	9.25	0.373	3.7
TCD660		3.7	155.5	0.002	0.32	1.00	26.3	<1	2.4	250	0.45	0.06	9.34	0.407	3.4
TCD661		5.5	178.0	<0.002	0.42	0.80	23.6	1	2.6	218	0.47	0.06	9.45	0.405	3.4
TCD662		3.0	179.5	0.002	0.49	0.76	22.7	<1	2.4	246	0.44	0.10	10.05	0.398	3.2
TCD663		8.4	134.5	0.007	1.03	0.99	25.5	<1	2.1	242	0.46	0.09	8.65	0.425	3.7



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PUL-QC
		V	W	Y	Zn	Zr	Pass75um
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	% 0.01
TCD624		204	3.3	21.6	95	156.0	
TCD625		178	5.3	17.1	94	150.0	
TCD626		180	9.7	20.2	90	140.5	
TCD627		175	5.5	17.7	112	149.0	
TCD628		259	7.8	29.2	105	158.5	
TCD629		199	4.6	23.1	109	160.5	
TCD630		171	4.2	20.8	84	149.5	
TCD631		185	5.3	21.5	86	138.0	
TCD632		187	5.5	21.8	70	134.0	
TCD633		179	2.3	22.5	57	132.0	
TCD634		177	2.1	18.8	46	137.0	
TCD635		166	1.4	22.9	53	153.0	
TCD636		181	2.5	23.0	48	159.5	
TCD637		203	1.9	23.8	41	154.5	
TCD638		167	2.1	26.2	48	144.5	
TCD639		164	2.7	33.3	55	155.5	
TCD640		142	2.2	40.0	42	139.5	
TCD641		165	1.9	37.9	43	139.0	
TCD642		147	2.0	35.5	53	135.0	
TCD643		166	2.3	45.7	55	157.0	
TCD644		169	1.6	28.9	52	148.5	
TCD645		197	1.9	38.1	44	115.5	
TCD646		166	1.5	32.6	48	120.5	
TCD647		176	2.0	31.3	66	126.0	
TCD648		185	2.2	26.9	57	116.0	
TCD649		218	3.7	19.0	56	101.0	
TCD650		170	1.9	27.6	47	127.5	
TCD651		176	1.7	26.9	49	134.0	
TCD652		170	2.1	29.7	41	113.5	
TCD653		162	2.1	28.7	41	130.5	
TCD654		176	1.6	23.8	45	126.5	
TCD655		183	3.6	26.7	43	119.5	
TCD656		203	2.6	25.3	41	110.0	
TCD657		206	3.0	25.8	44	107.0	
TCD658		192	2.4	24.7	33	113.5	
TCD659		172	2.7	25.6	54	133.5	
TCD660		188	2.9	23.6	66	125.5	
TCD661		203	3.3	19.7	50	128.0	
TCD662		175	2.5	22.1	43	128.5	
TCD663		194	2.3	21.3	94	117.5	86.3

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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-AA25 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
TCD664		3.62	<0.01	0.01	7.76	10.2	710	1.36	0.13	2.07	<0.02	88.2	30.6	87	1.75	42.9
TCD665		4.11	<0.01	0.02	7.74	9.6	740	1.32	0.16	1.61	0.02	71.2	34.5	85	1.31	8.9
TCD666		1.79	0.01	0.06	7.57	16.9	880	1.29	0.28	1.90	0.07	118.0	220	95	1.49	428
TCD667		2.15	0.03	0.28	6.92	42.9	830	1.20	0.81	1.86	0.23	214	837	82	1.86	1590
TCD668		1.10	0.01	0.04	7.65	12.4	1170	1.08	0.23	1.74	0.04	89.0	121.5	90	2.36	197.5
TCD669		2.20	<0.01	0.02	7.43	12.8	1360	1.18	0.22	1.52	<0.02	85.8	72.7	90	2.58	23.1
TCD670		1.51	<0.01	0.05	7.62	12.7	960	1.17	0.32	1.67	0.02	54.7	89.3	94	3.29	338
TCD671		1.97	<0.01	0.04	7.53	12.9	960	1.07	0.27	1.84	<0.02	71.0	65.3	81	3.73	146.5
TCD672		1.78	0.02	0.15	7.70	45.3	1090	1.46	0.78	1.85	0.14	73.2	101.5	83	3.22	247
TCD673		2.06	0.02	0.14	7.85	63.0	1420	1.15	0.76	1.74	0.10	72.2	121.0	81	2.84	392
TCD674		2.34	<0.01	0.01	8.04	15.8	800	1.35	0.09	2.30	<0.02	48.8	30.4	72	2.85	21.8
TCD675		1.94	<0.01	0.01	8.05	10.6	660	1.38	0.13	1.92	0.02	39.8	32.9	85	1.94	10.0
TCD676		1.86	<0.01	0.02	8.14	10.0	680	1.36	0.14	2.02	<0.02	36.7	33.1	94	1.30	10.8
TCD677		2.00	<0.01	0.02	8.22	11.6	450	1.11	0.11	1.92	<0.02	38.1	35.4	61	2.39	25.8
TCD678		2.15	0.02	0.14	7.03	12.4	610	1.52	0.35	2.39	<0.02	71.3	73.2	79	2.26	858
TCD679		1.86	0.02	0.10	6.86	12.3	760	1.29	0.20	1.86	<0.02	61.0	73.6	79	1.94	823
TCD680		1.81	0.04	0.19	6.88	16.6	600	1.33	0.35	1.99	<0.02	75.8	107.5	81	1.72	1480
TCD681		1.94	0.01	0.09	7.10	11.3	670	1.41	0.28	1.75	<0.02	51.3	68.9	77	1.93	483
TCD682		1.85	0.04	0.19	5.02	43.7	580	1.26	0.67	1.99	0.15	131.0	272	63	1.71	1030
TCD683		2.38	0.01	0.08	6.38	19.3	560	1.29	0.44	2.20	0.04	135.0	121.0	65	1.80	292
TCD684		2.41	0.04	0.23	5.69	17.4	530	1.62	0.45	2.19	0.03	109.0	97.3	49	1.72	1220
TCD685		1.97	<0.01	0.05	7.37	7.1	1410	1.35	0.27	0.86	<0.02	66.5	37.7	29	0.95	54.1
TCD686		1.70	0.01	0.06	7.45	7.2	1420	1.33	0.15	0.92	0.02	76.4	27.3	31	1.09	359
TCD687		2.01	0.01	0.04	7.84	7.0	1630	1.35	0.18	0.91	<0.02	71.3	27.6	31	1.16	158.0
TCD688		1.88	0.02	0.14	7.07	8.8	1320	1.49	0.20	1.21	<0.02	56.8	52.7	73	2.71	714
TCD689		2.29	0.01	0.10	6.82	13.3	1260	1.32	0.42	1.56	0.02	68.5	74.2	90	1.76	170.0
TCD690		2.07	0.01	0.12	6.27	16.7	740	1.40	0.44	1.82	0.02	64.0	107.5	90	1.52	419
TCD691		2.00	<0.01	0.04	7.60	12.0	790	1.42	0.23	2.00	<0.02	101.0	62.6	99	1.75	88.1
TCD692		1.82	<0.01	0.03	9.11	13.1	610	0.97	0.18	2.78	<0.02	84.9	56.2	34	1.93	22.9
TCD693		2.53	0.01	0.08	8.94	12.6	600	1.14	0.32	2.88	<0.02	55.3	105.0	41	2.60	216
TCD694		1.89	0.02	0.05	6.87	12.8	480	1.12	0.24	2.25	<0.02	68.4	77.1	96	1.49	190.5
TCD695		1.87	0.02	0.11	3.71	52.9	150	0.99	0.63	6.82	<0.02	357	209	36	1.24	487
TCD696		2.23	0.01	0.07	4.17	34.9	180	1.34	0.51	5.05	<0.02	274	141.0	53	1.62	156.5
TCD697		1.87	0.01	0.06	6.36	12.0	930	1.28	0.38	1.79	<0.02	238	98.9	85	1.80	137.0
TCD698		1.84	0.01	0.05	6.51	15.9	1590	1.32	0.19	2.48	0.03	170.5	62.7	61	1.55	19.5
TCD699		2.18	0.01	0.04	4.60	16.2	270	1.38	0.20	3.68	<0.02	69.6	94.8	32	1.64	152.0
TCD700		2.08	0.02	0.09	8.75	10.8	530	1.05	0.20	2.96	0.03	74.4	93.0	30	2.50	322
TCD701		1.78	0.01	0.06	8.53	10.6	280	1.07	0.25	2.74	<0.02	58.1	114.5	29	2.49	151.5
TCD702		2.13	0.01	0.10	6.00	19.7	320	1.16	0.26	3.46	<0.02	135.5	68.3	61	1.76	300
TCD703		2.22	0.01	0.04	6.69	7.9	750	1.32	0.19	1.84	<0.02	41.4	61.3	95	2.11	173.5



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
TCD664		7.41	16.10	0.15	3.4	0.037	2.86	46.4	24.7	2.15	518	1.86	1.68	7.0	23.6	500
TCD665		7.04	16.05	0.15	3.5	0.023	3.23	36.3	27.9	2.25	452	1.27	1.84	6.8	32.0	510
TCD666		8.32	17.25	0.21	3.9	0.041	3.58	62.5	27.2	2.10	512	11.10	1.40	7.0	41.8	630
TCD667		12.15	15.90	0.27	3.3	0.065	3.35	112.0	24.0	1.89	525	33.9	1.06	6.1	61.1	650
TCD668		9.28	16.25	0.20	4.0	0.034	3.57	44.8	28.1	2.41	423	2.98	1.05	7.1	29.0	520
TCD669		9.06	15.75	0.22	3.6	0.029	3.91	43.3	29.8	2.32	425	1.01	1.02	7.2	36.6	450
TCD670		9.83	16.30	0.15	3.8	0.032	3.03	26.4	29.3	2.36	456	1.62	1.43	7.5	84.3	570
TCD671		9.70	16.65	0.23	3.6	0.028	2.60	34.5	32.0	2.73	510	1.10	1.17	7.9	51.5	810
TCD672		8.65	15.45	0.20	3.5	0.028	3.07	35.8	24.3	2.00	410	3.43	1.38	6.9	48.4	440
TCD673		8.78	15.05	0.22	3.2	0.031	3.69	35.5	24.4	2.00	442	1.60	1.42	6.9	91.9	490
TCD674		7.97	16.65	0.19	3.1	0.029	2.38	22.9	27.1	2.73	510	0.67	1.80	7.1	42.9	570
TCD675		8.79	17.15	0.16	3.4	0.022	3.21	19.7	28.9	2.13	508	1.69	1.85	7.2	40.0	490
TCD676		7.34	16.90	0.13	3.1	0.029	3.60	18.7	27.1	1.89	484	0.69	1.96	7.5	37.1	560
TCD677		7.53	17.15	0.14	2.5	0.022	2.58	18.6	27.2	2.08	486	0.64	2.17	7.4	33.5	510
TCD678		12.15	18.50	0.22	2.7	0.090	1.93	33.9	26.8	2.92	570	1.79	1.71	5.0	56.7	1100
TCD679		11.30	17.55	0.22	2.8	0.050	2.75	28.7	26.4	2.30	533	1.72	1.57	5.5	44.2	750
TCD680		13.30	16.15	0.26	2.7	0.042	2.72	36.8	25.5	1.88	557	4.16	1.54	5.5	72.5	1250
TCD681		10.40	15.15	0.14	3.0	0.035	2.82	24.7	23.8	1.77	531	5.41	1.62	6.3	87.4	550
TCD682		21.9	16.45	0.65	2.1	0.083	1.46	59.3	24.9	2.64	524	5.59	0.97	2.6	1010	2660
TCD683		14.95	18.65	0.41	2.3	0.075	1.88	63.2	33.8	2.66	698	4.51	1.30	4.8	229	2010
TCD684		18.30	17.95	0.51	2.5	0.082	1.81	48.9	28.8	2.52	650	1.31	1.27	4.6	108.0	2990
TCD685		6.57	14.25	0.15	4.1	0.026	4.66	31.0	29.0	1.57	634	0.76	1.67	6.7	27.4	520
TCD686		6.63	14.80	0.17	4.2	0.040	4.61	37.6	33.0	1.69	636	1.12	1.63	6.3	19.2	520
TCD687		6.84	14.85	0.20	4.4	0.023	5.27	34.7	32.6	1.65	714	2.46	1.59	7.5	21.0	550
TCD688		12.55	16.50	0.21	3.3	0.061	3.67	27.6	32.7	2.43	861	1.65	1.30	5.9	105.0	570
TCD689		15.05	16.40	0.31	3.0	0.040	3.63	33.7	34.2	2.48	942	1.57	0.94	5.4	172.0	1250
TCD690		15.55	16.60	0.47	3.2	0.052	2.05	31.0	33.7	2.51	840	2.11	1.32	4.5	178.0	1090
TCD691		10.45	17.15	0.27	3.1	0.040	2.38	53.2	34.1	2.35	828	2.32	1.88	6.2	63.6	520
TCD692		9.28	17.85	0.28	2.3	0.026	2.78	46.0	22.7	1.70	468	1.38	2.52	5.9	45.0	660
TCD693		12.40	18.85	0.21	2.6	0.028	2.62	26.9	22.9	1.98	415	2.59	1.96	6.4	65.0	620
TCD694		10.45	15.30	0.23	3.2	0.054	2.63	35.3	34.5	2.44	726	0.61	1.15	5.6	68.2	550
TCD695		20.0	16.55	0.63	1.5	0.132	0.76	133.5	15.8	2.77	439	1.09	0.79	2.6	593	>10000
TCD696		16.95	15.45	0.50	2.6	0.129	0.93	114.5	21.6	3.42	542	4.72	0.80	3.5	448	>10000
TCD697		15.25	18.75	0.42	2.7	0.059	3.31	134.5	29.5	2.41	592	2.66	0.82	5.3	141.0	600
TCD698		9.28	16.65	0.34	3.0	0.139	4.68	94.4	30.0	3.07	756	1.97	0.56	5.3	79.3	1520
TCD699		21.2	19.45	0.31	2.6	0.130	1.05	33.2	24.6	3.52	747	2.33	0.73	2.6	131.5	2880
TCD700		14.35	19.60	0.23	2.0	0.033	2.74	39.7	21.7	1.97	400	2.11	1.79	4.9	66.9	1280
TCD701		13.85	19.35	0.31	2.1	0.033	2.04	27.5	21.1	1.90	404	1.94	1.89	4.8	67.7	880
TCD702		14.40	16.25	0.28	2.8	0.077	1.47	53.7	22.2	2.73	531	1.72	1.24	4.1	102.0	6720
TCD703		10.65	16.00	0.24	3.6	0.042	2.74	19.3	27.1	2.49	520	3.04	1.14	6.4	51.8	510



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
TCD664		2.6	140.0	<0.002	0.24	0.99	28.1	<1	2.0	229	0.48	<0.05	8.34	0.433	4.0
TCD665		2.2	147.5	<0.002	0.31	0.87	26.5	<1	1.9	223	0.45	<0.05	8.07	0.426	3.0
TCD666		2.8	166.5	0.010	1.07	1.24	23.1	1	2.7	238	0.46	0.17	8.55	0.401	4.0
TCD667		6.8	143.0	0.029	4.18	2.86	21.9	1	2.9	223	0.40	0.59	8.31	0.352	5.8
TCD668		3.1	151.5	0.005	0.71	1.17	24.2	<1	2.7	224	0.47	0.13	9.65	0.376	3.9
TCD669		2.7	162.0	<0.002	0.64	1.15	27.1	1	3.1	237	0.49	0.12	8.76	0.374	3.6
TCD670		2.7	154.5	0.002	0.77	1.17	25.1	1	3.2	245	0.52	0.08	8.14	0.387	3.3
TCD671		2.4	115.0	0.002	0.58	1.04	27.1	1	2.7	215	0.50	0.10	9.01	0.385	3.4
TCD672		31.8	142.0	0.002	1.63	1.07	28.4	<1	2.5	216	0.45	0.21	8.46	0.395	3.2
TCD673		16.2	167.5	0.005	2.24	1.06	24.3	1	2.7	238	0.44	0.24	8.49	0.408	3.2
TCD674		2.0	111.5	<0.002	0.17	0.83	27.7	<1	2.2	244	0.46	<0.05	8.48	0.415	2.8
TCD675		2.2	174.0	<0.002	0.25	1.00	26.9	<1	3.2	289	0.47	0.08	8.89	0.411	3.4
TCD676		2.3	179.0	<0.002	0.23	1.18	23.9	<1	4.6	324	0.48	0.05	9.19	0.433	3.5
TCD677		2.2	161.5	<0.002	0.19	1.02	23.7	<1	3.8	255	0.46	<0.05	8.16	0.420	2.9
TCD678		7.9	103.5	<0.002	0.55	1.26	25.2	<1	3.9	229	0.34	0.09	16.65	0.360	4.1
TCD679		4.7	136.5	<0.002	0.40	1.40	20.0	<1	4.5	254	0.37	0.07	16.50	0.373	4.3
TCD680		4.6	134.0	0.003	0.78	1.93	22.7	1	6.5	271	0.43	0.10	16.80	0.368	4.3
TCD681		6.1	159.5	<0.002	0.60	1.62	18.6	<1	7.1	290	0.44	0.11	9.39	0.370	3.7
TCD682		9.8	68.1	0.006	4.13	2.06	14.8	3	4.6	169.0	0.15	0.26	23.1	0.260	4.9
TCD683		5.2	114.5	0.005	1.16	2.12	21.9	1	6.0	295	0.34	0.17	22.5	0.333	4.7
TCD684		3.9	97.4	0.002	0.73	1.60	20.7	<1	5.2	181.5	0.32	0.10	21.9	0.335	4.8
TCD685		1.9	177.5	<0.002	0.37	0.71	16.1	<1	2.3	160.5	0.56	0.08	12.35	0.292	5.0
TCD686		1.6	176.0	<0.002	0.17	0.76	18.5	<1	2.1	160.5	0.56	0.05	11.90	0.287	4.9
TCD687		1.8	194.0	<0.002	0.19	0.68	17.5	<1	3.0	151.0	0.62	0.05	12.70	0.305	5.4
TCD688		2.4	148.5	0.003	0.36	1.02	23.1	<1	4.9	194.5	0.44	0.05	10.60	0.326	4.8
TCD689		4.6	144.5	0.002	0.81	1.58	24.1	<1	5.5	251	0.35	0.13	16.85	0.360	4.1
TCD690		5.2	95.4	0.004	0.79	1.46	23.4	<1	5.0	246	0.35	0.10	17.10	0.336	4.4
TCD691		4.9	126.5	0.003	0.35	1.16	22.2	<1	4.4	281	0.49	0.09	9.71	0.348	3.4
TCD692		5.7	175.5	0.002	0.30	0.93	16.1	<1	5.0	342	0.42	0.05	9.28	0.374	3.1
TCD693		4.9	181.0	<0.002	0.53	0.77	17.4	<1	5.2	342	0.44	0.10	11.95	0.363	4.1
TCD694		4.6	137.5	<0.002	0.43	1.18	21.7	<1	4.2	266	0.40	0.08	9.73	0.334	3.4
TCD695		12.7	50.2	0.007	2.76	1.27	17.1	2	5.3	134.0	0.18	0.19	45.1	0.257	8.2
TCD696		8.9	59.0	0.005	1.93	1.62	22.5	1	4.3	137.5	0.23	0.17	19.80	0.256	4.1
TCD697		10.4	143.0	0.004	0.88	1.06	23.0	<1	6.2	226	0.33	0.18	14.15	0.357	4.3
TCD698		9.0	193.0	<0.002	0.38	1.27	19.5	<1	7.7	264	0.41	0.11	31.3	0.301	4.9
TCD699		5.2	59.5	<0.002	0.55	1.32	23.3	<1	6.0	133.0	0.17	0.07	27.3	0.363	8.0
TCD700		8.0	181.5	0.002	0.45	0.67	15.9	<1	5.1	312	0.34	0.14	11.75	0.369	3.8
TCD701		8.4	155.0	0.002	0.58	0.70	14.4	<1	4.6	297	0.32	0.08	13.00	0.358	3.3
TCD702		5.1	89.4	0.002	0.48	0.98	20.7	<1	3.6	184.0	0.31	0.08	11.95	0.308	4.2
TCD703		5.2	155.0	<0.002	0.23	0.55	22.7	<1	3.6	225	0.42	<0.05	12.25	0.322	3.6



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PUL-QC
		V	W	Y	Zn	Zr	Pass75um
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	% 0.01
TCD664		198	2.8	22.2	73	115.0	
TCD665		191	2.5	22.4	50	113.5	
TCD666		182	3.7	23.4	78	122.5	
TCD667		176	4.9	27.5	81	112.5	
TCD668		181	3.2	29.8	63	133.5	
TCD669		186	3.3	30.3	54	128.5	
TCD670		244	5.7	25.9	64	128.5	
TCD671		248	3.4	27.3	66	121.5	
TCD672		192	2.8	20.3	85	113.0	
TCD673		152	9.1	20.4	71	109.0	
TCD674		190	2.8	26.7	47	105.5	
TCD675		233	4.4	18.3	53	122.5	
TCD676		212	6.2	19.1	59	109.0	
TCD677		226	4.7	16.6	73	89.0	
TCD678		518	6.1	26.6	92	92.3	
TCD679		523	5.1	34.8	75	92.6	
TCD680		500	10.4	43.6	74	114.5	
TCD681		348	6.4	44.5	76	110.5	
TCD682		803	12.6	48.2	65	71.6	
TCD683		640	7.1	60.8	72	85.5	
TCD684		794	11.7	59.5	62	88.9	
TCD685		142	7.0	17.6	58	146.0	
TCD686		150	4.8	18.7	51	144.0	
TCD687		153	7.2	26.7	58	151.0	
TCD688		464	7.6	37.9	86	115.5	
TCD689		568	5.8	41.1	110	105.0	
TCD690		559	8.2	33.3	112	109.0	
TCD691		236	3.1	30.0	104	115.0	
TCD692		234	5.6	33.6	58	79.6	
TCD693		474	24.5	34.5	45	92.2	
TCD694		263	7.0	24.7	81	125.5	
TCD695		805	21.7	114.5	36	54.0	
TCD696		543	11.2	88.7	49	64.3	
TCD697		635	3.9	63.7	62	96.2	
TCD698		337	3.5	74.1	78	101.0	
TCD699		1120	4.1	65.4	68	86.4	
TCD700		569	2.9	37.8	56	75.4	
TCD701		575	2.5	37.9	61	75.1	
TCD702		599	4.3	63.4	65	104.0	
TCD703		325	1.9	36.2	60	127.5	87.0



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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-AA25 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
TCD704		2.02	0.03	0.15	7.12	9.6	300	1.07	0.40	2.24	0.07	86.5	54.1	106	2.13	972
TCD705		2.04	0.01	0.05	6.98	7.0	1150	0.97	0.18	1.77	0.05	44.4	46.2	133	1.79	109.5
TCD706		1.95	0.01	0.07	7.04	9.3	1520	0.97	0.24	1.47	<0.02	58.4	53.1	122	1.64	119.0
TCD707		1.95	0.02	0.15	7.33	10.9	1380	1.00	0.28	1.66	0.02	74.0	62.7	91	1.37	694
TCD708		2.22	0.01	0.06	6.81	7.8	1550	1.01	0.21	1.43	0.03	98.7	43.8	70	1.68	29.0
TCD709		1.87	0.01	0.12	6.81	8.1	1430	0.98	0.22	1.41	<0.02	47.3	50.2	112	1.90	536
TCD710		2.12	0.02	0.05	6.90	9.1	1340	0.95	0.21	1.37	<0.02	106.5	48.1	108	1.90	35.2
TCD711		2.21	0.01	0.05	6.99	9.0	1380	1.07	0.22	1.39	<0.02	110.0	47.9	112	1.95	47.8
TCD712		1.77	0.01	0.04	6.89	9.9	1360	1.14	0.33	1.30	<0.02	215	44.7	87	1.77	18.6
TCD713		1.70	0.01	0.07	7.23	8.5	1420	1.01	0.24	1.53	<0.02	84.4	42.8	97	1.78	117.0
TCD714		2.16	0.01	0.08	7.58	10.9	1350	1.14	0.46	1.70	<0.02	77.4	50.7	108	1.79	12.2
TCD715		2.02	0.01	0.07	7.49	10.6	1630	1.12	0.42	1.57	0.02	69.8	45.7	92	1.38	25.0
TCD716		2.30	0.01	0.04	7.23	10.1	1430	1.04	0.29	1.44	<0.02	57.6	37.1	98	1.26	19.7
TCD717		1.86	0.01	0.04	7.22	12.1	1180	1.14	0.33	1.74	0.05	55.0	39.9	95	1.13	23.9
TCD718		2.11	0.01	0.04	6.85	9.2	870	1.45	0.31	1.36	<0.02	51.0	63.6	96	1.61	14.1
TCD719		2.09	0.03	0.24	6.44	17.1	1310	1.07	0.47	1.51	0.05	38.9	86.9	185	1.72	733
TCD720		2.18	0.01	0.04	7.08	6.7	520	1.30	0.17	1.76	<0.02	33.8	31.8	101	2.46	153.5
TCD721		2.13	0.01	0.07	7.26	8.1	510	1.36	0.21	1.77	<0.02	27.7	35.0	114	1.79	54.3
TCD722		2.13	0.01	0.04	7.19	6.3	390	1.46	0.18	1.87	<0.02	29.8	33.1	116	1.83	182.5
TCD723		2.05	0.02	0.08	7.76	10.2	910	1.43	0.24	1.83	<0.02	41.4	47.6	111	2.04	439
TCD724		2.09	0.01	0.03	7.54	7.7	1180	1.24	0.19	1.77	<0.02	44.8	36.8	110	2.03	123.0
TCD725		2.20	0.01	0.02	7.53	8.9	1090	1.26	0.19	1.89	<0.02	60.1	41.6	102	1.73	27.6
TCD726		1.75	0.01	0.04	7.56	9.5	1820	1.08	0.19	1.48	<0.02	51.4	35.6	93	1.42	64.6
TCD727		2.16	0.02	0.10	7.39	10.6	1060	1.51	0.30	1.60	0.02	76.6	47.3	113	1.51	604
TCD728		1.97	0.01	0.06	7.81	8.7	580	1.45	0.21	1.83	<0.02	56.0	36.8	94	1.67	258
TCD729		2.58	0.01	0.04	7.80	11.1	350	1.32	0.46	1.58	<0.02	74.7	42.2	107	1.23	9.5
TCD730		2.07	0.01	0.04	7.60	9.4	390	1.35	0.31	1.60	<0.02	34.8	40.5	112	1.60	92.8
TCD731		2.11	0.01	0.05	7.77	10.1	1810	1.36	0.24	1.51	<0.02	42.7	41.6	117	1.52	90.1
TCD732		1.98	0.01	0.07	7.45	8.5	860	1.57	0.17	1.48	<0.02	29.5	37.7	101	1.99	227
TCD733		1.97	0.02	0.08	7.68	8.0	460	1.65	0.19	1.49	<0.02	37.4	26.0	102	2.53	675
TCD734		2.34	0.01	0.06	7.66	6.9	430	1.41	0.15	1.99	<0.02	31.5	28.4	100	2.55	174.5
TCD735		2.02	0.01	0.10	6.88	24.8	390	1.26	0.15	4.58	<0.02	175.5	36.2	104	3.55	119.5
TCD736		2.21	0.03	0.33	6.29	32.3	1070	0.99	0.32	3.26	0.07	188.5	63.7	76	2.46	1395
TCD737		1.96	0.01	0.03	8.86	10.8	1240	1.18	0.11	2.38	0.02	38.3	31.2	52	2.28	75.2
TCD738		1.95	0.01	0.04	9.43	14.2	1440	1.45	0.22	2.52	<0.02	58.3	43.3	39	2.57	53.8
TCD739		2.14	0.01	0.07	9.19	13.3	1440	1.33	0.25	2.48	0.03	61.3	51.2	38	2.47	625
TCD740		2.04	0.01	0.06	8.86	13.4	1140	1.45	0.15	2.07	<0.02	52.9	33.3	36	1.67	123.0
TCD741		2.20	0.07	0.12	8.48	11.6	1220	1.16	0.25	1.61	0.03	66.5	48.1	34	1.59	887
TCD742		1.94	0.01	0.03	8.54	15.9	1000	1.00	0.32	2.36	0.07	50.1	60.3	74	3.93	101.5
TCD743		2.09	0.02	0.04	7.63	22.5	480	1.37	0.40	2.53	<0.02	53.4	81.1	118	7.34	185.0



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
TCD704		9.53	15.75	0.15	3.2	0.058	2.09	46.7	33.5	2.76	704	1.18	1.25	6.6	39.2	470
TCD705		9.47	13.65	0.12	3.3	0.038	3.64	21.6	28.8	2.83	632	0.99	0.92	6.2	28.0	510
TCD706		9.85	15.05	0.17	3.5	0.040	4.54	28.2	30.4	2.66	622	2.00	0.65	6.2	29.8	500
TCD707		9.78	15.80	0.17	3.6	0.048	4.42	36.1	34.6	2.70	750	4.40	0.69	5.8	35.5	660
TCD708		8.90	14.60	0.24	3.8	0.038	3.86	53.7	27.9	2.23	524	1.71	0.79	6.3	25.4	420
TCD709		9.83	14.10	0.13	3.9	0.035	4.15	23.6	25.9	2.24	518	1.34	0.76	6.3	25.4	460
TCD710		9.51	15.25	0.24	4.1	0.042	4.13	56.9	29.7	2.55	582	2.21	0.78	6.8	31.6	460
TCD711		9.51	15.70	0.21	3.9	0.045	4.18	58.1	30.4	2.57	615	1.96	0.79	6.9	32.1	480
TCD712		8.62	15.10	0.32	3.9	0.058	4.30	117.5	34.1	2.34	605	2.05	0.79	6.9	35.5	530
TCD713		8.88	14.80	0.20	3.9	0.037	4.21	44.9	27.7	2.58	557	2.29	0.85	7.0	38.0	470
TCD714		9.12	15.75	0.13	4.0	0.035	4.18	39.9	27.2	2.60	589	1.24	0.94	6.9	50.1	580
TCD715		8.43	14.80	0.15	4.0	0.031	4.77	36.0	23.6	2.27	569	1.37	0.92	7.1	51.8	480
TCD716		9.15	15.00	0.13	3.8	0.035	4.50	29.5	24.6	2.22	618	1.79	0.94	7.2	32.5	460
TCD717		9.36	15.05	0.13	4.1	0.032	3.87	27.5	25.0	2.39	694	2.17	1.04	6.3	39.2	480
TCD718		10.75	16.05	0.14	3.6	0.039	3.11	24.9	28.6	2.49	626	1.96	1.11	6.1	45.5	470
TCD719		11.65	15.65	0.14	3.8	0.060	4.68	17.6	32.2	2.95	634	4.27	0.46	7.6	71.0	1420
TCD720		9.53	14.70	0.15	3.9	0.034	1.96	16.0	27.6	2.66	568	2.31	1.48	6.7	31.4	420
TCD721		9.21	14.35	0.10	3.7	0.033	2.02	12.6	30.7	3.01	571	0.72	1.72	6.8	26.9	430
TCD722		9.81	15.40	0.12	3.8	0.034	1.66	13.5	26.2	2.80	461	1.21	1.72	6.8	26.5	410
TCD723		10.60	16.45	0.12	3.8	0.035	3.34	20.6	24.3	2.78	541	5.06	1.28	6.2	38.6	600
TCD724		10.15	14.90	0.14	4.0	0.027	3.88	22.3	22.5	2.49	515	1.20	1.05	6.7	29.3	460
TCD725		9.77	14.65	0.16	4.0	0.032	3.83	29.0	25.9	2.81	568	1.09	1.00	7.2	25.1	450
TCD726		9.61	14.65	0.15	4.7	0.023	4.98	25.3	24.3	2.68	592	1.79	0.61	6.5	23.1	510
TCD727		11.05	14.85	0.18	4.4	0.039	3.95	38.3	24.8	2.48	555	2.19	0.98	6.4	33.3	490
TCD728		10.65	15.20	0.14	3.6	0.037	3.07	27.2	23.7	2.31	539	1.01	1.53	6.9	25.0	450
TCD729		9.50	15.10	0.17	3.7	0.042	3.32	38.0	25.0	2.54	607	1.03	1.76	7.7	45.4	460
TCD730		9.31	14.90	0.14	3.7	0.038	3.00	16.6	23.9	2.40	539	1.21	1.70	6.4	44.0	430
TCD731		10.05	15.15	0.17	4.3	0.035	5.26	20.2	25.5	2.54	710	1.52	0.78	6.3	42.3	540
TCD732		10.15	15.30	0.11	3.9	0.038	3.45	14.2	26.0	2.58	616	3.05	1.30	6.7	35.7	480
TCD733		9.52	16.15	0.13	4.3	0.041	2.54	17.5	29.4	2.89	658	1.14	1.82	7.1	25.9	520
TCD734		9.35	15.30	0.10	4.3	0.027	1.89	14.7	26.4	2.86	614	1.65	1.94	6.7	27.9	460
TCD735		11.65	16.80	0.31	3.2	0.022	1.51	68.5	30.6	2.94	553	1.20	1.65	5.3	60.6	>10000
TCD736		14.95	17.25	0.36	2.7	0.041	3.13	88.1	29.3	2.86	471	3.79	0.84	4.6	101.5	9160
TCD737		8.42	17.55	0.16	3.8	0.018	4.02	17.9	22.1	2.18	429	1.22	1.72	6.4	29.5	620
TCD738		9.54	18.35	0.14	4.1	0.022	4.62	28.7	22.8	1.99	512	1.25	1.46	6.1	50.5	860
TCD739		10.80	18.25	0.18	4.1	0.031	4.67	29.9	22.9	2.07	528	2.37	1.41	6.0	52.0	1100
TCD740		7.95	16.50	0.16	4.2	0.023	4.86	27.5	18.8	1.55	532	2.93	1.61	7.6	26.5	560
TCD741		7.99	15.55	0.19	4.7	0.027	5.37	32.8	16.6	1.64	552	0.79	1.43	8.2	45.7	610
TCD742		9.99	16.65	0.15	4.0	0.022	3.83	24.1	18.8	2.20	351	1.84	1.60	6.6	101.0	550
TCD743		11.15	16.45	0.17	3.6	0.042	2.25	25.1	24.1	3.17	379	2.69	1.73	6.0	139.5	530



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
TCD704		70.2	145.5	0.002	0.32	0.88	23.0	<1	3.1	232	0.49	0.05	9.12	0.333	2.9
TCD705		4.6	148.5	<0.002	0.17	0.58	23.1	<1	2.9	220	0.47	0.05	8.85	0.330	3.3
TCD706		15.1	173.0	0.003	0.27	0.63	23.0	<1	3.4	234	0.49	0.08	8.94	0.328	3.5
TCD707		17.6	177.5	<0.002	0.36	0.93	23.2	<1	3.6	252	0.44	0.07	9.15	0.346	3.9
TCD708		9.2	150.5	0.003	0.20	0.79	21.7	<1	4.0	204	0.50	0.06	9.16	0.330	4.3
TCD709		4.1	174.0	<0.002	0.28	0.78	22.9	<1	3.6	206	0.47	0.07	8.30	0.325	3.8
TCD710		3.7	170.0	0.002	0.23	0.84	23.4	<1	3.7	218	0.53	0.08	10.10	0.331	4.5
TCD711		3.5	177.0	0.002	0.22	0.90	23.9	<1	3.7	226	0.53	0.09	10.10	0.334	5.5
TCD712		5.1	168.0	0.002	0.25	1.23	23.3	<1	4.5	215	0.51	0.08	10.65	0.317	4.6
TCD713		3.7	180.0	0.002	0.27	0.72	22.4	1	4.2	251	0.48	0.07	8.85	0.346	4.2
TCD714		13.4	180.0	<0.002	0.43	0.84	23.1	<1	5.0	268	0.52	0.17	9.65	0.371	4.2
TCD715		28.7	183.5	<0.002	0.47	0.90	22.0	<1	5.3	251	0.48	0.15	10.10	0.363	4.6
TCD716		13.7	179.5	<0.002	0.26	1.04	22.1	<1	4.6	242	0.49	<0.05	9.91	0.352	4.9
TCD717		9.1	165.5	<0.002	0.36	1.56	22.9	<1	3.7	322	0.49	0.08	9.30	0.353	3.8
TCD718		4.7	167.0	<0.002	0.44	1.30	22.8	<1	3.9	265	0.44	0.12	8.37	0.333	3.2
TCD719		3.8	129.0	0.003	0.72	1.33	24.1	1	4.0	112.5	0.48	0.19	11.45	0.329	8.0
TCD720		2.0	115.0	<0.002	0.13	0.74	21.3	<1	3.3	241	0.47	<0.05	10.60	0.340	3.2
TCD721		2.5	110.0	<0.002	0.19	0.94	22.0	<1	3.8	228	0.53	0.05	9.72	0.357	2.9
TCD722		2.2	100.5	<0.002	0.17	0.88	22.7	<1	3.4	213	0.50	0.05	8.15	0.352	3.0
TCD723		2.5	165.0	0.002	0.32	1.04	22.7	<1	3.4	243	0.43	0.07	9.81	0.364	3.2
TCD724		2.4	173.5	<0.002	0.23	0.79	22.3	1	3.3	222	0.46	<0.05	10.05	0.358	3.2
TCD725		3.0	169.5	<0.002	0.26	0.99	22.7	<1	3.8	233	0.50	0.06	10.20	0.370	3.3
TCD726		3.4	179.0	<0.002	0.24	0.96	22.9	<1	3.2	214	0.51	<0.05	9.27	0.364	3.4
TCD727		3.2	182.0	<0.002	0.50	1.20	23.8	1	3.2	215	0.44	0.06	9.29	0.362	3.4
TCD728		5.3	178.0	<0.002	0.30	1.07	22.7	<1	3.6	249	0.49	<0.05	8.37	0.384	3.7
TCD729		10.4	191.0	0.002	0.59	1.37	24.9	<1	3.7	237	0.48	0.06	8.93	0.407	2.4
TCD730		3.0	188.0	0.002	0.51	1.01	23.9	1	3.5	212	0.45	0.10	7.99	0.383	2.5
TCD731		2.6	208	<0.002	0.32	1.03	24.6	<1	3.0	207	0.46	0.09	11.70	0.365	3.0
TCD732		2.4	181.5	<0.002	0.24	0.99	21.7	1	3.3	222	0.51	0.05	9.62	0.360	3.4
TCD733		2.6	164.5	<0.002	0.16	1.20	23.5	<1	3.9	248	0.54	<0.05	12.30	0.369	3.4
TCD734		4.9	121.5	<0.002	0.14	0.90	23.0	<1	3.3	241	0.49	<0.05	10.35	0.367	3.3
TCD735		2.5	88.5	0.002	0.29	0.92	21.8	1	3.3	219	0.39	0.07	14.15	0.329	3.7
TCD736		7.1	113.5	0.004	0.85	1.19	21.9	<1	3.7	156.0	0.31	0.18	19.05	0.298	4.8
TCD737		3.0	177.0	<0.002	0.18	0.74	18.0	1	2.0	271	0.47	0.06	11.05	0.354	4.4
TCD738		3.7	202	<0.002	0.46	0.85	16.7	<1	2.0	305	0.45	0.09	12.55	0.342	4.9
TCD739		4.0	213	0.002	0.58	0.99	16.1	1	2.2	288	0.43	0.11	12.10	0.347	5.4
TCD740		26.2	237	<0.002	0.24	1.01	14.3	<1	2.8	265	0.55	0.05	10.45	0.346	5.1
TCD741		6.7	210	<0.002	0.51	0.91	16.5	1	2.9	204	0.59	0.10	11.75	0.346	4.9
TCD742		4.0	191.5	0.002	0.71	0.75	20.5	<1	2.3	244	0.50	0.10	9.77	0.355	3.7
TCD743		3.2	164.5	0.003	0.92	0.85	27.5	1	3.3	268	0.43	0.21	11.20	0.352	3.6



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PUL-QC
		V	W	Y	Zn	Zr	Pass75um
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	% 0.01
TCD704		170	2.4	25.2	75	125.0	
TCD705		160	1.4	21.0	58	122.5	
TCD706		163	1.6	23.0	57	131.0	
TCD707		165	1.7	24.7	67	135.0	
TCD708		154	1.9	33.2	44	138.0	
TCD709		164	1.4	25.1	44	133.5	
TCD710		163	1.6	29.6	53	138.0	
TCD711		165	1.6	30.1	53	144.5	
TCD712		159	2.2	47.3	56	144.5	
TCD713		175	1.8	31.8	49	138.0	
TCD714		173	1.9	34.1	53	138.5	
TCD715		156	2.1	39.0	56	148.0	
TCD716		154	1.8	33.7	63	142.0	
TCD717		176	2.1	25.5	61	135.5	
TCD718		193	1.7	24.7	49	133.0	
TCD719		270	8.1	27.2	53	136.0	
TCD720		181	1.8	20.4	48	134.5	
TCD721		212	1.7	25.6	51	161.5	
TCD722		212	1.1	21.0	40	136.5	
TCD723		242	1.2	22.3	50	142.0	
TCD724		186	1.1	22.2	47	141.0	
TCD725		173	1.3	26.2	54	144.0	
TCD726		171	1.6	19.7	55	155.5	
TCD727		179	1.4	21.4	52	142.5	
TCD728		181	2.3	25.3	49	133.0	
TCD729		172	1.5	26.2	52	119.5	
TCD730		168	1.6	20.5	47	130.5	
TCD731		183	1.7	16.2	64	145.5	
TCD732		183	1.3	24.3	53	138.0	
TCD733		177	1.5	27.4	60	147.5	
TCD734		192	1.2	22.8	56	146.5	
TCD735		327	2.6	68.4	44	121.0	
TCD736		517	8.3	61.7	43	94.0	
TCD737		241	0.9	19.7	26	136.0	
TCD738		252	0.9	21.5	38	143.5	
TCD739		302	1.2	19.2	44	143.0	
TCD740		195	2.1	27.4	45	152.0	
TCD741		186	2.4	27.9	46	173.0	
TCD742		259	0.9	21.9	24	140.5	
TCD743		282	1.3	24.2	25	119.5	92.3

***** See Appendix Page for comments regarding this certificate *****



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CERTIFICATE OF ANALYSIS BU18302927

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-AA25 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
TCD744		2.23	0.02	0.07	7.17	49.0	300	1.42	0.48	2.18	0.03	36.0	59.1	119	4.97	394
TCD745		1.93	0.01	0.05	7.90	22.7	440	1.37	0.32	2.07	<0.02	32.9	43.8	137	3.46	150.0
TCD746		2.04	0.03	0.06	7.48	9.6	950	1.29	0.19	1.64	<0.02	46.1	46.6	130	5.52	590
TCD747		2.03	0.02	0.06	7.50	10.1	240	1.54	0.18	2.22	0.02	45.9	46.1	130	7.41	314
TCD748		2.28	0.02	0.07	6.75	6.2	200	1.29	0.15	1.97	<0.02	57.5	48.0	80	9.67	478
TCD749		1.86	0.01	0.02	7.90	7.9	290	1.15	0.11	3.50	<0.02	46.4	32.7	75	5.75	103.5
TCD750		2.05	0.01	0.04	7.94	7.7	260	1.18	0.11	3.24	<0.02	52.6	31.2	76	7.03	250
TCD751		2.24	0.01	0.03	7.66	8.9	220	1.15	0.17	3.58	<0.02	42.1	35.3	74	6.49	322
TCD752		2.20	0.01	0.03	8.09	6.8	280	1.11	0.12	3.12	0.06	30.2	26.8	79	6.81	246
TCD753		2.35	0.01	0.03	7.92	10.4	530	1.20	0.20	3.10	<0.02	48.2	34.6	77	5.31	217
TCD754		2.13	0.01	0.02	7.87	6.4	580	1.13	0.11	2.53	0.02	48.5	32.7	79	6.38	99.6
TCD755		1.88	0.01	0.04	7.27	9.3	900	1.22	0.20	1.55	<0.02	48.2	44.2	84	8.38	138.0
TCD756		1.60	0.02	0.06	7.80	8.5	1040	1.55	0.25	1.61	<0.02	69.2	78.6	48	6.27	143.5
TCD757		2.11	0.03	0.08	8.79	6.8	1180	1.91	0.10	1.21	<0.02	146.0	8.1	17	1.56	493
TCD758		1.77	0.02	0.07	7.59	8.6	1770	1.55	0.27	1.04	<0.02	74.2	89.7	46	1.57	144.0
TCD759		1.93	0.02	0.07	6.51	11.8	1760	1.47	0.45	1.74	<0.02	210	94.1	63	2.79	223
TCD760		1.15	0.04	0.09	4.88	34.2	470	1.40	0.30	4.99	<0.02	282	92.1	41	5.79	836
TCD761		1.58	0.05	0.13	5.04	21.7	620	1.30	0.18	2.60	<0.02	234	73.4	44	7.68	1350
TCD762		0.88	0.21	0.84	0.91	214	50	1.67	2.54	10.40	0.14	>500	638	11	0.63	4710
TCD763		2.17	0.04	0.14	6.01	13.8	560	1.07	0.18	2.06	0.02	90.8	69.0	49	7.45	1000
TCD764		2.19	0.01	0.04	7.36	15.5	400	1.06	0.17	2.06	<0.02	38.4	57.0	58	6.28	170.5
TCD765		2.17	0.01	0.05	7.74	13.1	460	1.08	0.07	2.91	<0.02	40.8	21.4	60	5.57	303
TCD766		2.46	0.01	0.08	7.43	12.1	370	1.09	0.12	2.20	<0.02	77.5	35.2	60	7.20	197.0
TCD767		2.26	0.04	0.17	5.07	62.2	150	1.15	0.57	5.70	0.05	347	235	46	5.08	908
TCD768		1.65	<0.01	0.04	7.63	9.1	320	1.20	0.12	2.37	0.02	37.0	27.3	65	8.03	180.5
TCD769		2.44	<0.01	0.06	7.67	9.5	960	1.14	0.30	2.38	0.03	37.9	58.5	52	7.08	305
TCD770		3.70	<0.01	0.07	6.78	7.8	1510	0.99	0.15	2.57	0.04	48.3	32.9	106	7.21	204
TCD771		3.62	<0.01	0.05	7.11	6.6	1810	1.07	0.16	1.36	0.02	40.8	35.6	116	2.98	52.9
TCD772		3.80	<0.01	0.05	7.15	6.5	1870	1.14	0.16	1.28	0.03	37.9	36.7	90	2.39	37.3
TCD773		4.21	0.01	0.07	7.70	7.0	1530	1.43	0.15	1.31	<0.02	53.0	21.0	115	1.68	428
TCD774		3.52	0.01	0.03	7.37	7.5	1460	1.10	0.16	1.93	<0.02	55.7	45.5	81	3.61	14.4
TCD775		3.76	<0.01	0.03	7.51	8.7	1760	1.11	0.27	1.34	<0.02	68.6	56.7	107	4.52	19.1
TCD776		4.23	<0.01	0.02	7.31	8.2	1350	1.22	0.25	1.37	<0.02	58.8	36.2	103	4.62	52.4
TCD777		3.92	<0.01	0.02	7.28	7.2	1090	1.23	0.21	1.89	<0.02	62.9	33.7	90	4.16	75.6
TCD778		3.79	<0.01	0.02	7.53	7.1	530	1.25	0.22	2.48	<0.02	63.4	36.1	83	3.10	81.1
TCD779		4.07	<0.01	0.04	7.10	8.5	770	1.35	0.24	2.32	0.02	93.7	38.0	105	1.25	127.0
TCD780		3.99	<0.01	0.07	6.89	6.3	690	1.19	0.13	2.08	0.03	45.9	30.8	105	1.41	310
TCD781		4.59	<0.01	0.03	6.80	7.1	620	1.29	0.27	2.33	<0.02	62.4	25.5	55	1.12	141.5
TCD782		3.73	<0.01	0.03	6.54	6.8	600	1.23	0.21	2.20	<0.02	79.2	26.1	84	1.22	126.0
TCD783		3.85	<0.01	0.03	6.64	6.7	590	1.30	0.14	2.51	<0.02	68.2	24.2	99	0.94	90.2



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CERTIFICATE OF ANALYSIS BU18302927

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
TCD744		8.05	15.20	0.10	3.4	0.040	1.82	17.4	25.1	2.73	364	2.23	1.84	5.9	157.0	370
TCD745		7.94	16.35	0.10	4.3	0.033	1.97	15.3	33.0	3.38	507	0.82	1.79	7.0	103.0	460
TCD746		10.90	15.55	0.12	4.1	0.027	3.33	22.9	26.1	2.75	426	3.71	1.28	6.1	62.3	460
TCD747		10.90	16.90	0.11	4.1	0.023	2.06	22.3	23.4	2.69	395	1.60	1.69	7.0	73.8	400
TCD748		15.35	19.50	0.17	3.1	0.021	2.53	27.7	23.5	3.19	343	1.38	1.24	5.6	79.0	490
TCD749		7.52	17.00	0.10	3.7	0.039	2.34	21.4	17.6	3.01	297	0.36	1.69	6.3	35.0	430
TCD750		8.07	16.95	0.13	3.6	0.038	2.49	25.9	20.5	3.05	346	0.48	1.66	6.4	33.0	470
TCD751		9.61	16.70	0.12	3.4	0.033	2.31	19.3	21.9	2.94	429	1.24	1.47	5.9	68.7	480
TCD752		8.81	17.20	0.09	3.7	0.030	2.44	13.2	20.4	2.91	379	0.75	1.61	6.3	38.0	400
TCD753		8.62	17.05	0.12	3.6	0.035	2.89	22.8	19.9	2.81	364	0.61	1.53	6.5	38.7	470
TCD754		9.11	16.50	0.09	3.6	0.022	2.94	22.9	20.6	2.66	348	0.63	1.49	6.2	45.2	460
TCD755		9.16	15.75	0.10	3.7	0.023	3.43	22.3	27.4	3.06	440	1.73	1.08	6.7	76.0	590
TCD756		12.40	18.65	0.15	3.7	0.026	4.29	32.7	21.3	1.99	468	2.10	1.44	7.7	117.0	720
TCD757		4.76	18.10	0.24	5.9	0.034	5.44	71.9	14.6	1.14	521	2.42	2.67	12.0	22.4	680
TCD758		10.10	17.75	0.18	4.5	0.033	5.12	36.2	20.4	1.76	699	1.61	1.24	9.0	77.7	780
TCD759		16.95	20.7	0.25	2.5	0.046	4.12	106.0	35.6	2.47	820	6.69	0.35	4.1	115.0	1410
TCD760		18.20	20.2	0.37	1.7	0.030	2.07	122.5	27.3	3.67	440	4.86	0.14	5.1	249	>10000
TCD761		21.4	20.5	0.36	1.7	0.029	2.83	96.7	23.7	3.44	326	3.33	0.17	3.8	180.5	9420
TCD762		30.1	12.75	0.81	0.5	0.080	0.18	237	7.6	0.75	169	17.15	0.08	2.7	1630	>10000
TCD763		20.7	19.70	0.33	1.9	0.027	2.67	39.6	24.4	3.05	445	3.03	0.83	3.3	181.0	3810
TCD764		13.40	18.60	0.13	2.3	0.024	2.46	16.3	27.4	2.89	497	1.83	1.47	5.0	95.8	630
TCD765		8.71	16.70	0.12	2.6	0.034	2.43	17.8	27.5	3.26	543	0.87	1.73	6.7	54.0	1060
TCD766		11.00	17.05	0.17	2.4	0.030	2.13	33.5	36.1	3.46	500	1.33	1.45	6.1	97.0	740
TCD767		17.30	15.95	0.48	1.7	0.056	1.06	137.0	26.5	2.45	316	1.81	1.15	4.8	522	>10000
TCD768		10.75	17.35	0.12	2.5	0.033	2.42	17.3	26.2	3.16	396	2.19	1.65	6.6	60.5	610
TCD769		12.65	15.20	0.19	2.6	0.022	3.56	18.1	27.8	2.17	282	2.51	1.10	5.2	98.1	600
TCD770		9.25	13.75	0.13	3.9	0.023	4.87	24.4	30.0	2.14	342	2.24	0.43	6.4	40.9	500
TCD771		9.45	13.50	0.14	3.8	0.028	4.90	19.8	21.4	2.46	500	2.15	0.75	5.9	38.5	400
TCD772		9.07	13.80	0.11	4.0	0.021	5.32	19.2	22.3	2.27	493	1.38	0.62	5.6	25.7	470
TCD773		6.63	14.35	0.13	5.1	0.053	5.09	25.5	27.0	2.34	778	0.73	1.42	8.7	25.2	540
TCD774		9.12	14.70	0.13	3.3	0.029	4.22	28.7	23.6	2.48	536	0.76	0.90	6.4	38.1	490
TCD775		8.42	14.50	0.16	3.9	0.028	4.95	34.4	24.6	2.38	408	1.49	0.85	6.3	43.6	510
TCD776		8.21	13.50	0.16	3.4	0.024	4.22	29.0	24.1	2.37	372	1.45	1.14	6.4	35.1	490
TCD777		8.72	14.70	0.15	3.9	0.031	3.78	31.3	22.9	2.36	395	0.92	1.15	7.0	26.6	490
TCD778		8.00	14.55	0.14	3.5	0.033	2.77	31.1	20.8	2.37	418	0.69	1.57	7.1	32.2	500
TCD779		9.18	15.05	0.21	3.8	0.060	3.32	45.2	24.2	2.24	651	1.05	1.29	5.8	24.4	470
TCD780		8.76	13.75	0.12	4.1	0.038	3.01	23.0	24.1	2.50	599	1.08	1.27	5.9	18.3	450
TCD781		7.27	13.70	0.14	4.3	0.045	2.88	31.3	18.7	1.91	497	1.68	1.42	7.1	19.9	440
TCD782		7.30	13.80	0.16	4.0	0.047	2.72	38.6	21.1	2.22	518	0.65	1.35	6.7	26.8	420
TCD783		7.42	14.30	0.15	3.8	0.048	2.85	34.2	20.3	2.47	523	0.57	1.46	6.8	24.6	430



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
TCD744		6.0	137.0	0.005	1.16	0.96	24.8	2	2.9	217	0.42	0.17	9.67	0.328	2.9
TCD745		3.9	115.0	0.002	0.70	0.85	25.6	1	3.0	227	0.52	0.08	10.85	0.370	3.0
TCD746		3.4	157.5	0.003	0.48	1.00	22.1	<1	3.2	191.5	0.45	0.06	10.15	0.339	3.4
TCD747		2.5	156.0	0.003	0.45	0.93	23.3	<1	2.9	205	0.50	0.07	11.10	0.338	3.8
TCD748		1.9	207	<0.002	0.39	1.18	26.2	<1	3.7	159.5	0.36	0.12	14.45	0.304	3.1
TCD749		2.1	169.0	<0.002	0.20	0.52	27.0	<1	2.3	240	0.49	<0.05	9.55	0.353	2.7
TCD750		1.9	184.0	<0.002	0.11	0.60	26.3	<1	2.4	245	0.50	<0.05	10.10	0.357	2.7
TCD751		2.3	179.5	<0.002	0.26	0.82	26.5	<1	2.5	230	0.44	<0.05	12.05	0.330	2.7
TCD752		2.2	185.0	<0.002	0.11	0.64	26.2	<1	2.3	241	0.48	<0.05	12.05	0.346	2.8
TCD753		2.5	181.0	<0.002	0.19	0.66	27.1	<1	2.0	235	0.50	0.06	9.77	0.351	2.8
TCD754		1.8	189.0	<0.002	0.21	0.67	24.7	<1	1.9	218	0.48	<0.05	9.37	0.343	2.8
TCD755		2.4	176.5	0.002	0.38	0.88	24.2	<1	2.2	162.0	0.49	0.09	10.15	0.352	3.0
TCD756		2.4	206	0.003	0.99	1.01	18.0	<1	3.6	201	0.56	0.19	13.10	0.341	5.4
TCD757		2.2	219	<0.002	0.07	1.16	11.0	<1	6.3	173.5	0.98	<0.05	18.45	0.387	7.4
TCD758		2.2	182.0	0.002	0.77	1.00	14.6	<1	5.9	174.5	0.68	0.28	14.80	0.347	6.1
TCD759		3.2	132.0	0.006	1.02	2.26	28.9	<1	4.4	313	0.28	0.39	14.15	0.293	4.4
TCD760		2.3	124.0	0.006	1.49	1.93	25.1	<1	4.5	70.7	0.26	0.29	27.0	0.249	6.2
TCD761		2.4	164.0	0.003	0.90	1.48	19.2	<1	4.3	64.6	0.22	0.28	38.8	0.288	6.9
TCD762		28.7	9.1	0.019	>10.0	3.70	10.9	9	4.6	77.8	0.22	2.97	23.4	0.175	5.8
TCD763		2.4	177.5	0.003	0.62	1.27	21.3	<1	2.7	170.5	0.21	0.16	21.1	0.314	4.0
TCD764		4.7	188.0	0.002	0.32	1.15	25.0	<1	2.5	226	0.33	0.13	11.35	0.311	3.8
TCD765		2.8	176.0	<0.002	0.10	0.84	28.0	<1	3.1	254	0.43	0.05	10.20	0.349	2.3
TCD766		3.0	150.0	0.002	0.22	1.08	27.0	<1	3.3	205	0.40	0.05	11.60	0.331	2.5
TCD767		14.1	79.3	0.005	2.99	1.53	24.0	2	4.0	186.5	0.29	0.39	26.3	0.249	4.8
TCD768		5.0	184.0	0.002	0.15	0.73	29.2	<1	2.5	246	0.40	<0.05	10.75	0.339	3.0
TCD769		10.8	170.5	0.003	0.62	0.68	20.4	<1	2.0	197.5	0.34	0.12	10.45	0.313	4.0
TCD770		22.8	197.0	<0.002	0.32	0.73	20.8	1	2.1	122.5	0.43	0.07	8.19	0.324	3.4
TCD771		21.9	171.5	0.002	0.38	0.70	22.1	<1	2.5	164.0	0.42	0.07	8.20	0.340	2.9
TCD772		128.0	172.5	<0.002	0.36	0.70	23.4	1	2.3	163.5	0.43	0.06	9.03	0.349	2.8
TCD773		6.9	177.5	<0.002	0.16	0.75	18.7	<1	2.9	147.5	0.64	0.05	12.95	0.337	5.1
TCD774		12.1	168.0	<0.002	0.57	0.68	24.6	1	2.4	193.5	0.43	0.08	9.12	0.377	3.7
TCD775		3.7	195.5	0.002	0.81	0.59	24.9	1	2.5	183.0	0.45	0.15	9.76	0.373	3.4
TCD776		3.1	180.5	<0.002	0.73	0.59	22.6	1	2.0	197.5	0.43	0.13	9.32	0.362	3.0
TCD777		2.8	179.0	<0.002	0.43	0.60	24.2	1	2.2	218	0.48	0.05	9.41	0.363	2.9
TCD778		3.7	158.5	<0.002	0.41	0.55	23.4	1	2.5	236	0.46	0.06	8.50	0.383	2.4
TCD779		2.9	162.0	<0.002	0.21	1.04	22.7	<1	2.3	247	0.44	<0.05	9.22	0.328	2.6
TCD780		2.1	152.0	<0.002	0.15	0.61	21.2	<1	2.4	209	0.42	0.05	8.06	0.332	2.5
TCD781		2.5	142.0	<0.002	0.37	0.65	22.5	<1	3.1	233	0.49	<0.05	9.64	0.323	2.8
TCD782		2.0	139.5	<0.002	0.28	0.71	21.9	<1	2.8	219	0.49	<0.05	9.29	0.308	2.4
TCD783		1.8	145.0	<0.002	0.15	0.67	23.4	1	3.0	238	0.48	<0.05	9.00	0.316	2.4



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PUL-QC
		V	W	Y	Zn	Zr	Pass75um
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	% 0.01
TCD744		182	1.2	18.8	30	113.0	
TCD745		221	1.1	22.9	42	147.5	
TCD746		246	1.2	18.0	38	138.0	
TCD747		285	0.8	24.3	27	142.0	
TCD748		594	0.9	28.7	23	108.5	
TCD749		211	0.6	24.5	16	128.5	
TCD750		222	0.7	23.2	21	126.0	
TCD751		289	0.8	23.8	28	117.0	
TCD752		255	0.7	20.1	24	138.0	
TCD753		222	0.7	23.8	27	130.5	
TCD754		232	0.7	22.3	29	125.5	
TCD755		237	1.3	28.2	40	132.0	
TCD756		310	3.4	25.1	37	133.0	
TCD757		121	3.4	49.8	49	214	
TCD758		210	6.2	39.7	67	164.0	
TCD759		381	10.3	22.6	74	85.1	
TCD760		566	3.3	110.0	36	55.3	
TCD761		813	3.4	66.1	23	61.0	
TCD762		366	20.5	218	12	13.5	
TCD763		908	1.7	42.5	45	65.4	
TCD764		532	1.3	32.7	47	81.5	
TCD765		248	1.0	27.5	45	90.9	
TCD766		322	1.1	26.0	46	85.1	
TCD767		391	13.8	116.0	28	59.3	
TCD768		297	0.5	27.8	31	89.5	
TCD769		317	2.4	16.7	26	92.2	
TCD770		179	1.1	20.5	28	137.5	
TCD771		174	1.1	19.9	46	134.0	
TCD772		182	1.5	13.8	50	137.5	
TCD773		138	2.5	24.8	72	184.5	
TCD774		183	4.4	17.6	41	120.0	
TCD775		174	1.2	16.2	33	133.0	
TCD776		173	1.2	15.0	29	127.0	
TCD777		175	1.2	19.9	33	137.5	
TCD778		173	0.9	25.5	31	125.5	
TCD779		169	1.5	25.4	54	137.5	
TCD780		167	1.4	22.9	51	142.0	
TCD781		152	2.0	30.2	38	154.5	
TCD782		148	1.9	25.2	41	138.5	
TCD783		151	1.6	27.4	40	136.5	89.6



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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-AA25 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
TCD784		4.05	<0.01	0.02	6.89	6.7	460	1.17	0.17	2.48	<0.02	71.9	27.8	95	1.32	90.0
TCD785		3.88	<0.01	0.01	7.01	6.7	610	1.28	0.12	2.47	<0.02	67.3	24.2	95	1.41	24.2
TCD786		4.49	<0.01	0.02	6.55	6.3	460	1.37	0.15	2.00	<0.02	65.2	28.8	98	2.53	16.3
TCD787		3.53	<0.01	0.06	6.57	8.6	1240	0.99	0.26	1.62	<0.02	62.5	39.8	97	2.96	213
TCD788		4.27	<0.01	0.02	6.80	8.2	580	1.37	0.27	1.87	<0.02	71.1	31.5	88	4.40	35.4
TCD789		4.26	<0.01	0.04	6.73	6.9	480	1.26	0.10	2.18	<0.02	54.0	25.9	95	3.76	175.5
TCD790		4.30	<0.01	0.05	6.84	7.2	520	1.35	0.14	2.14	<0.02	69.4	30.2	109	3.31	155.0
TCD791		4.20	<0.01	0.03	6.79	7.2	590	1.19	0.13	2.04	<0.02	49.0	33.0	97	2.13	112.0
TCD792		3.97	<0.01	0.04	6.81	7.0	560	1.14	0.15	1.99	<0.02	46.0	31.6	85	2.60	197.0
TCD793		4.28	<0.01	0.03	6.77	7.1	800	1.04	0.20	2.22	0.04	104.0	37.4	138	2.99	98.2
TCD794		3.87	<0.01	0.02	6.91	7.3	400	1.15	0.20	2.40	<0.02	57.5	35.9	122	3.63	53.9
TCD795		4.26	<0.01	0.02	6.98	7.0	410	1.20	0.14	2.42	<0.02	51.8	37.9	92	3.73	37.2
TCD796		4.03	<0.01	0.01	6.46	7.1	560	1.21	0.13	2.34	<0.02	59.0	30.4	117	3.90	24.3
TCD797		4.45	<0.01	0.02	7.72	7.7	270	1.06	0.09	2.93	<0.02	37.5	26.7	51	4.85	68.7
TCD798		4.35	<0.01	0.06	7.25	7.7	460	1.20	0.16	2.40	<0.02	63.1	33.1	90	4.73	225
TCD799		3.66	<0.01	0.04	7.03	8.3	530	1.24	0.13	2.35	<0.02	55.5	31.3	91	3.21	150.0
TCD800		4.12	<0.01	0.05	7.00	9.1	410	1.11	0.16	2.42	<0.02	57.4	33.6	117	2.88	193.5
TCD801		3.91	<0.01	0.04	7.35	8.9	420	1.37	0.12	2.44	0.03	48.5	33.1	75	2.29	130.0
TCD802		3.94	<0.01	0.02	7.25	7.8	670	1.30	0.14	2.12	<0.02	61.0	34.0	103	2.42	55.3
TCD803		3.97	<0.01	0.04	7.18	7.4	1050	1.35	0.12	1.52	0.07	51.9	36.8	93	2.37	154.5
TCD804		4.40	<0.01	0.03	7.38	7.9	910	1.56	0.21	1.53	0.02	70.0	45.7	105	2.49	67.2
TCD805		1.83	<0.01	0.05	7.51	7.9	500	1.47	0.40	2.00	0.02	97.4	49.3	71	3.94	28.7
TCD806		2.38	<0.01	0.02	8.19	7.4	1040	1.84	0.13	1.41	<0.02	44.2	20.2	28	2.21	30.1
TCD807		1.71	<0.01	0.01	7.78	5.8	1500	1.98	0.10	1.06	<0.02	15.65	4.8	19	1.18	58.7
TCD808		1.87	<0.01	0.02	7.81	5.5	1440	2.41	0.14	0.89	<0.02	68.0	6.9	17	1.35	163.0
TCD809		1.90	<0.01	0.03	7.65	4.9	1460	2.22	0.14	0.77	<0.02	60.0	7.6	16	0.91	154.5
TCD810		1.68	0.01	0.08	8.07	5.9	1520	2.39	0.18	0.75	<0.02	119.0	9.8	18	1.05	531
TCD811		1.88	<0.01	0.02	8.08	6.1	1500	2.92	0.13	0.91	<0.02	87.4	11.2	18	1.06	171.5
TCD812		2.04	<0.01	0.02	8.08	6.7	1470	2.96	0.12	1.04	0.02	57.7	9.2	18	1.02	223
TCD813		1.77	<0.01	0.02	7.79	6.3	1340	2.50	0.10	1.18	<0.02	83.7	11.6	34	1.51	136.5
TCD814		2.24	<0.01	0.02	7.36	8.2	670	1.71	0.17	1.67	0.02	100.5	45.8	100	2.73	5.3
TCD815		3.82	<0.01	0.02	7.31	7.4	590	1.52	0.13	1.87	<0.02	132.0	33.5	79	2.75	24.2
TCD816		4.00	<0.01	0.03	7.66	9.1	850	1.59	0.17	1.66	<0.02	117.5	42.7	92	3.58	203
TCD817		4.32	<0.01	0.02	7.12	7.7	800	1.37	0.14	2.41	<0.02	75.3	31.0	105	3.24	41.3
TCD818		4.30	<0.01	0.03	7.27	7.9	1100	1.43	0.16	2.14	<0.02	85.1	32.1	108	2.55	83.8
TCD819		3.92	<0.01	0.03	6.64	6.9	560	1.45	0.14	2.58	<0.02	75.3	33.8	104	2.34	214
TCD820		3.92	0.01	0.05	7.02	8.9	1150	1.20	0.18	2.45	<0.02	61.8	47.5	104	2.06	169.0
TCD821		4.17	<0.01	0.03	6.84	7.8	900	1.28	0.22	1.68	<0.02	55.0	36.0	101	2.47	39.9
TCD822		3.99	<0.01	0.03	7.28	7.5	710	1.32	0.21	1.79	<0.02	52.1	27.3	100	3.98	14.4
TCD823		4.42	<0.01	0.03	7.02	5.8	1090	1.43	0.11	2.40	<0.02	71.1	31.2	113	3.30	110.5



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
TCD784		7.62	14.60	0.14	3.6	0.050	2.63	36.2	22.5	2.45	516	0.63	1.40	6.7	32.6	450
TCD785		7.66	14.50	0.15	3.9	0.046	3.04	33.4	24.2	2.55	558	0.78	1.25	6.7	25.5	430
TCD786		8.32	14.10	0.13	3.8	0.035	2.30	32.5	24.0	2.36	378	0.98	1.19	6.6	28.0	420
TCD787		7.80	13.10	0.14	3.8	0.023	4.07	31.8	19.4	2.14	291	1.85	0.77	6.3	30.7	430
TCD788		7.76	14.30	0.14	3.9	0.030	2.50	36.7	23.8	2.18	292	2.26	1.25	6.8	37.9	440
TCD789		8.86	14.50	0.13	4.3	0.027	2.28	28.3	24.4	2.40	352	1.38	1.21	7.3	25.1	420
TCD790		9.13	14.85	0.14	4.1	0.031	2.38	36.6	24.9	2.47	382	2.82	1.27	6.7	28.4	420
TCD791		8.71	14.10	0.11	3.9	0.032	2.57	25.5	27.7	2.47	464	2.16	1.23	6.2	26.6	420
TCD792		8.63	14.25	0.09	4.0	0.022	2.56	24.1	25.3	2.38	435	2.19	1.14	5.9	23.2	430
TCD793		7.91	14.15	0.20	3.7	0.034	2.62	54.6	26.2	2.70	446	1.40	1.09	6.9	37.0	420
TCD794		7.95	14.60	0.12	3.8	0.036	2.20	29.0	25.2	2.60	525	2.00	1.34	7.0	40.6	450
TCD795		8.59	15.00	0.13	3.7	0.036	2.39	26.8	25.0	2.54	405	2.19	1.33	6.7	33.9	490
TCD796		7.70	13.90	0.15	3.7	0.033	2.21	31.6	24.7	2.56	369	1.98	1.24	5.8	23.7	420
TCD797		8.64	15.40	0.10	3.0	0.028	2.59	18.1	23.5	2.61	328	1.42	1.37	5.9	22.1	530
TCD798		8.37	15.45	0.12	4.1	0.039	2.47	33.1	25.2	2.62	385	1.96	1.26	6.9	27.1	450
TCD799		8.02	14.65	0.12	4.5	0.031	2.45	28.3	27.6	2.56	446	1.99	1.13	7.0	20.3	490
TCD800		7.88	14.85	0.12	4.1	0.033	2.19	28.9	24.8	2.53	408	1.87	1.22	6.8	20.8	430
TCD801		7.98	15.15	0.10	4.5	0.027	2.16	25.5	25.9	2.29	406	2.15	1.37	7.3	23.7	460
TCD802		8.60	15.25	0.19	4.0	0.020	2.43	32.0	28.2	2.57	410	1.30	1.20	6.2	25.9	480
TCD803		8.87	15.95	0.15	4.5	0.017	2.98	27.4	28.5	2.53	456	2.17	1.30	7.0	18.3	440
TCD804		8.30	16.10	0.13	4.5	0.015	2.47	36.3	29.6	2.47	435	1.85	1.49	7.7	18.2	470
TCD805		7.01	16.45	0.17	4.2	0.023	1.78	53.7	28.2	2.05	427	1.02	1.60	6.8	25.4	460
TCD806		7.61	17.45	0.14	3.8	0.021	4.12	23.5	30.8	1.73	702	1.37	1.59	7.3	12.0	580
TCD807		3.40	15.35	0.07	3.9	0.013	5.07	8.2	17.0	1.04	540	0.14	1.67	10.5	7.8	550
TCD808		3.73	17.00	0.14	4.0	0.022	5.09	33.2	19.5	1.11	618	0.18	1.92	10.4	10.5	560
TCD809		3.81	16.05	0.14	4.0	0.018	4.75	29.5	17.8	1.06	622	0.61	1.89	9.9	10.9	550
TCD810		4.23	17.65	0.18	4.3	0.031	5.42	58.0	23.4	1.08	775	0.78	2.00	11.5	12.8	580
TCD811		4.09	17.90	0.18	4.4	0.017	5.44	42.7	20.1	1.09	642	0.65	1.99	11.7	12.7	570
TCD812		4.05	16.75	0.17	4.1	0.021	5.28	28.0	19.3	1.06	555	0.48	1.96	11.5	11.4	580
TCD813		4.97	17.40	0.19	4.2	0.020	4.74	42.9	26.2	1.55	583	0.71	1.67	10.1	11.7	550
TCD814		9.38	16.75	0.17	4.4	0.032	1.96	54.9	38.3	2.74	809	1.40	1.64	6.6	35.1	450
TCD815		8.17	17.95	0.18	4.3	0.031	1.80	72.8	37.0	2.73	855	1.40	1.69	6.4	19.8	490
TCD816		8.13	17.10	0.17	4.7	0.028	2.47	65.0	41.4	2.50	807	6.02	1.68	7.1	24.8	480
TCD817		7.61	14.95	0.15	4.0	0.037	2.41	39.3	28.6	2.61	590	0.68	1.50	6.6	37.9	520
TCD818		7.60	16.30	0.17	4.4	0.051	3.03	43.1	30.6	2.65	652	0.98	1.61	7.3	46.9	510
TCD819		8.00	15.25	0.13	4.0	0.024	1.43	39.4	36.6	2.24	730	1.23	1.86	6.7	25.3	460
TCD820		6.85	14.50	0.12	4.4	0.021	2.48	32.4	32.2	2.19	672	1.37	1.62	7.0	24.1	470
TCD821		6.39	14.05	0.11	4.2	0.019	2.08	28.8	28.3	2.09	528	1.66	1.64	6.6	29.2	450
TCD822		6.13	15.05	0.11	4.4	0.015	2.01	27.5	26.4	2.02	466	1.56	1.94	7.1	35.3	480
TCD823		8.03	15.55	0.15	4.3	0.019	2.43	37.6	29.3	2.54	631	1.53	1.35	6.7	25.3	450



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
TCD784		2.1	148.5	<0.002	0.24	0.59	23.9	<1	3.3	225	0.45	0.05	9.14	0.335	0.29
TCD785		2.0	159.5	<0.002	0.17	0.58	24.7	1	3.0	237	0.45	0.05	8.77	0.327	0.30
TCD786		1.8	132.5	<0.002	0.23	0.61	22.5	1	2.5	189.0	0.46	0.07	8.90	0.323	0.23
TCD787		2.4	166.5	0.004	0.56	0.62	21.5	1	2.6	161.0	0.42	0.10	8.25	0.320	0.33
TCD788		2.8	154.0	<0.002	0.49	5.07	23.0	<1	2.4	217	0.46	0.14	9.30	0.339	0.28
TCD789		2.1	142.5	<0.002	0.16	0.60	23.0	1	2.6	177.0	0.49	0.07	9.26	0.333	0.25
TCD790		2.1	146.5	<0.002	0.18	0.66	23.2	1	2.7	189.5	0.47	0.06	9.95	0.323	0.25
TCD791		2.6	138.0	<0.002	0.25	0.77	22.0	1	2.7	203	0.46	0.06	9.27	0.318	0.27
TCD792		2.6	141.5	<0.002	0.42	0.63	21.6	1	2.9	185.5	0.42	0.10	8.06	0.330	0.26
TCD793		2.9	122.0	<0.002	0.58	0.70	23.5	<1	2.8	202	0.43	0.12	9.45	0.316	0.22
TCD794		2.3	140.0	<0.002	0.51	0.65	23.2	1	2.9	245	0.47	0.07	9.41	0.339	0.25
TCD795		3.2	157.0	<0.002	0.35	0.60	23.4	1	3.1	239	0.45	0.06	9.19	0.344	0.28
TCD796		2.0	134.0	<0.002	0.27	0.75	22.1	1	2.4	202	0.40	0.08	8.26	0.303	0.28
TCD797		1.9	195.0	<0.002	0.23	0.72	24.0	<1	3.5	208	0.39	0.05	9.20	0.404	0.37
TCD798		2.9	168.0	<0.002	0.45	0.72	24.6	<1	3.3	218	0.49	0.09	9.30	0.353	0.28
TCD799		2.9	147.5	<0.002	0.46	0.60	25.2	<1	3.1	228	0.47	0.05	9.47	0.338	0.25
TCD800		3.1	139.5	<0.002	0.68	0.57	23.4	1	2.4	217	0.46	0.11	9.10	0.335	0.23
TCD801		4.5	140.5	<0.002	0.61	0.70	25.1	<1	2.3	216	0.51	0.11	8.50	0.359	0.24
TCD802		2.8	136.5	<0.002	0.57	0.86	24.4	<1	2.3	201	0.44	0.06	10.20	0.344	0.23
TCD803		2.9	141.5	0.002	0.46	0.82	23.3	<1	2.5	181.0	0.48	0.08	10.15	0.353	0.28
TCD804		3.1	117.5	0.003	0.59	0.82	22.1	<1	2.3	177.0	0.49	0.07	9.78	0.364	0.23
TCD805		9.5	113.0	0.002	0.90	0.92	21.6	<1	2.0	201	0.46	0.10	9.64	0.338	0.21
TCD806		5.5	215	<0.002	0.15	1.06	16.7	<1	3.0	243	0.66	<0.05	13.05	0.308	0.42
TCD807		2.5	165.0	<0.002	0.02	0.86	10.8	<1	4.1	257	0.98	<0.05	17.50	0.251	0.45
TCD808		2.3	172.5	<0.002	0.04	0.77	11.3	<1	3.5	197.0	1.00	<0.05	17.35	0.253	0.40
TCD809		2.1	158.5	<0.002	0.04	0.61	10.5	<1	3.1	157.0	0.97	<0.05	17.60	0.244	0.42
TCD810		2.1	189.5	<0.002	0.08	0.72	12.2	1	4.5	166.5	1.05	0.06	18.90	0.256	0.49
TCD811		2.3	207	<0.002	0.05	0.65	11.8	1	3.7	168.5	1.09	<0.05	19.25	0.262	0.45
TCD812		2.4	198.5	<0.002	0.04	0.64	11.6	<1	3.6	192.0	1.04	<0.05	19.60	0.259	0.42
TCD813		2.7	187.0	<0.002	0.06	0.89	15.2	<1	3.3	246	0.90	<0.05	17.30	0.283	0.40
TCD814		3.5	118.0	<0.002	0.45	1.34	23.8	1	2.3	243	0.47	0.05	9.61	0.347	0.23
TCD815		3.5	103.0	<0.002	0.18	1.25	24.7	<1	2.1	259	0.48	0.05	13.15	0.337	0.24
TCD816		3.2	138.5	0.002	0.48	1.19	26.3	<1	2.2	242	0.49	0.09	11.15	0.351	0.30
TCD817		2.5	115.5	<0.002	0.38	0.87	22.7	<1	2.0	241	0.48	0.06	9.81	0.348	0.23
TCD818		2.4	148.5	<0.002	0.42	0.77	24.5	1	2.7	229	0.53	0.10	10.15	0.354	0.29
TCD819		2.4	74.0	<0.002	0.42	1.07	24.2	<1	2.1	250	0.45	0.07	9.04	0.324	0.15
TCD820		2.7	101.0	0.002	0.70	0.98	24.6	1	2.1	229	0.49	0.18	10.10	0.341	0.22
TCD821		2.6	94.8	0.002	0.84	0.76	22.7	1	2.0	195.0	0.47	0.20	10.10	0.329	0.19
TCD822		3.0	113.0	0.003	0.48	0.74	25.8	1	2.3	184.0	0.47	0.10	9.94	0.353	0.21
TCD823		2.0	109.5	<0.002	0.23	0.78	25.8	<1	2.0	180.0	0.46	0.05	9.37	0.337	0.21



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PUL-QC
		V	W	Y	Zn	Zr	Pass75um
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	% 0.01
TCD784		156	1.5	27.3	37	126.5	
TCD785		157	1.2	28.8	38	140.5	
TCD786		155	0.9	27.8	27	137.5	
TCD787		145	1.3	20.8	20	134.5	
TCD788		153	3.8	25.1	19	134.0	
TCD789		161	1.3	25.6	24	152.0	
TCD790		163	1.2	24.4	27	147.5	
TCD791		154	1.4	23.1	33	140.5	
TCD792		165	1.2	22.0	30	135.0	
TCD793		152	1.3	25.5	33	131.0	
TCD794		156	1.8	20.8	32	138.0	
TCD795		165	1.9	23.6	33	139.0	
TCD796		143	0.9	18.4	30	131.5	
TCD797		185	1.1	22.1	26	101.0	
TCD798		170	1.1	20.4	28	140.0	
TCD799		166	1.3	16.7	36	154.0	
TCD800		165	1.0	20.2	32	146.5	
TCD801		172	1.2	21.3	36	153.5	
TCD802		170	0.9	20.8	36	144.5	
TCD803		163	1.2	24.8	42	162.5	
TCD804		180	1.1	20.7	39	161.0	
TCD805		147	0.8	15.9	38	151.5	
TCD806		160	2.1	19.3	70	130.5	
TCD807		95	1.4	24.7	53	129.0	
TCD808		98	1.7	25.6	62	131.0	
TCD809		95	2.2	24.2	61	128.0	
TCD810		98	2.6	29.7	74	142.5	
TCD811		101	2.3	28.0	64	143.5	
TCD812		101	1.5	24.6	54	138.5	
TCD813		115	1.5	26.6	61	140.0	
TCD814		180	1.7	16.2	100	153.0	
TCD815		161	1.9	21.4	107	153.5	
TCD816		160	2.5	19.0	92	163.0	
TCD817		171	1.2	19.1	55	144.0	
TCD818		175	1.6	24.8	57	155.5	
TCD819		152	2.1	24.5	68	150.0	
TCD820		160	2.2	15.2	63	156.5	
TCD821		148	1.9	23.4	47	151.5	
TCD822		161	2.0	23.0	42	165.5	
TCD823		164	1.8	27.2	62	148.0	83.6

***** See Appendix Page for comments regarding this certificate *****

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
TCD824		6.19	14.60	0.08	4.5	0.014	1.60	23.4	23.0	2.09	404	1.83	2.42	7.5	22.3
															420

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CERTIFICATE OF ANALYSIS BU18302927

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	PUL-QC Pass7Sum % 0.01
TCD824		167	2.4	17.3	43	160.0	



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CERTIFICATE OF ANALYSIS BU18302927

	CERTIFICATE COMMENTS
	ANALYTICAL COMMENTS
Applies to Method:	REE's may not be totally soluble in this method. ME-MS61
	ACCREDITATION COMMENTS
Applies to Method:	NATA Accreditation covers the performance of this service but does not cover the performance of ALS Perth Sample Preparation. Corporate Accreditation No: 825, Corporate Site No: 23001. The Technical Signatory is Wendy Wong, Senior QC Chemist Au-AA25 ME-MS61
	LABORATORY ADDRESSES
Applies to Method:	Processed at ALS Perth located at 31 Denninup Way, Malaga, Australia. Processed at ALS Perth Sample Preparation at 79 Distinction Road, Wangara, WA, Australia Au-AA25 ME-MS61 TRSPEC-20
Applies to Method:	Processed at ALS Burnie located at 39 River Road, Burnie, TAS, Australia. BAG-01 CRU-21 LEV-01 PUL-23 PUL-QC SPL-21 WEI-21