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No: 825, Corporate Site No: 23001.

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## QC 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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## QC CERTIFICATE OF ANALYSIS BU18302927

Sample Description	Method Analyte Units LOD	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	ME-MS61 Fe % 0.01
STANDARDS																
G914-10		10.50														
G914-10		10.30														
G914-10		10.40														
Target Range - Lower Bound		9.63														
Upper Bound		10.90														
GBM908-10			2.86	6.80	56.1	1050	1.58	1.27	3.54	1.63	100.5	25.3	133	3.73	3470	5.29
GBM908-10			2.86	7.44	60.2	1150	1.55	1.16	3.82	1.64	110.5	28.0	143	3.84	3700	5.61
GBM908-10			2.86	7.33	55.9	1130	1.36	1.36	3.79	1.55	100.0	25.7	140	3.72	3700	5.48
GBM908-10			2.86	7.20	55.3	1120	1.55	1.12	3.68	1.68	109.5	27.2	135	4.14	3560	5.44
GBM908-10			3.02	7.35	55.1	1150	1.42	1.43	3.85	1.89	108.5	27.8	142	4.19	3640	5.77
GBM908-10			2.90	7.28	56.5	1170	1.52	1.15	3.86	1.77	111.5	26.6	143	4.11	3620	5.74
Target Range - Lower Bound			2.60	6.40	50.2	930	1.27	1.12	3.33	1.53	99.0	24.0	125	3.44	3350	4.98
Upper Bound			3.20	7.84	61.8	1280	1.66	1.39	4.10	1.91	121.0	29.6	155	4.32	3850	6.10
JK-17		1.95														
JK-17		2.00														
JK-17		1.96														
Target Range - Lower Bound		1.87														
Upper Bound		2.13														
MRGeo08			4.20	7.85	33.4	1100	3.46	0.66	2.57	2.15	78.4	20.1	91	12.65	636	3.98
MRGeo08			4.14	7.18	32.4	1060	3.06	0.68	2.53	2.20	72.0	18.9	87	11.85	607	3.78
MRGeo08			4.26	7.55	32.6	1080	3.32	0.63	2.56	2.01	70.1	19.2	89	11.85	612	3.81
MRGeo08			4.19	7.73	34.1	1120	3.27	0.71	2.69	2.26	75.8	20.0	90	13.10	645	3.99
MRGeo08			4.50	7.98	32.5	1140	3.39	0.72	2.69	2.29	82.3	20.8	91	13.50	626	4.14
MRGeo08			4.27	8.02	33.5	1170	3.45	0.70	2.74	2.25	80.6	20.2	93	13.15	653	4.26
Target Range - Lower Bound			4.00	6.64	29.5	920	2.98	0.60	2.35	2.00	66.2	17.7	81	11.20	587	3.55
Upper Bound			4.92	8.14	36.5	1270	3.76	0.76	2.90	2.48	81.0	21.9	102	13.80	675	4.37
OGGeo08			19.75	6.85	120.5	480	3.19	10.55	2.12	19.25	70.9	96.8	83	11.45	8440	5.35
OGGeo08			18.65	6.99	123.0	980	3.04	10.50	2.22	19.65	71.6	95.7	83	11.10	8410	5.35
OGGeo08			19.75	7.43	126.0	520	3.22	10.40	2.32	18.90	71.3	96.0	85	11.30	8690	5.69
Target Range - Lower Bound			18.15	6.07	106.0	700	2.59	9.44	1.98	16.70	64.8	87.2	78	9.85	7800	4.81
Upper Bound			22.2	7.44	130.0	980	3.27	11.55	2.44	20.5	79.2	107.0	98	12.15	8980	5.91
OREAS 24b			0.08	7.63	9.3	710	2.72	0.63	1.02	0.06	85.2	17.3	118	11.30	40.2	4.29
OREAS 24b			0.07	7.65	8.4	710	2.70	0.61	1.02	0.06	84.5	17.5	117	10.60	36.4	4.31
OREAS 24b			0.06	7.79	8.3	720	2.37	0.91	1.03	0.02	83.0	15.3	118	10.50	38.5	4.28
OREAS 24b			0.05	7.63	9.2	710	2.66	0.69	1.03	0.02	79.9	16.2	119	10.10	38.7	4.15
OREAS 24b			0.07	7.88	8.9	740	2.57	0.64	1.05	0.04	87.1	17.0	119	10.80	40.3	4.30
OREAS 24b			0.06	7.67	8.6	720	2.50	0.71	1.03	<0.02	85.3	16.5	115	10.70	38.4	4.23



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# QC CERTIFICATE OF ANALYSIS BU18302927

Method Analyte Units LOD	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
Sample Description	STANDARDS														
G914-10															
G914-10															
G914-10															
Target Range - Lower Bound															
Upper Bound															
GBM908-10	20.5	0.15	4.0	0.064	2.00	50.9	10.9	1.72	771	58.2	2.04	10.5	2210	950	1965
GBM908-10	22.1	0.19	3.6	0.073	2.14	57.3	11.8	1.85	819	61.4	2.23	10.9	2320	1010	2060
GBM908-10	20.3	0.19	3.6	0.079	2.15	52.5	11.0	1.82	786	65.1	2.20	10.6	2370	1000	2080
GBM908-10	20.2	0.19	3.6	0.071	2.09	55.2	11.6	1.78	785	57.0	2.19	10.8	2220	980	2020
GBM908-10	21.9	0.14	4.1	0.074	2.18	53.4	11.3	1.85	815	65.4	2.23	11.4	2260	1010	2090
GBM908-10	21.7	0.22	4.0	0.075	2.19	56.1	11.3	1.89	823	58.3	2.24	10.9	2310	1030	2090
Target Range - Lower Bound	18.65	0.13	3.3	0.064	1.87	49.0	9.8	1.61	715	57.9	1.93	9.5	2020	880	1845
Upper Bound	22.9	0.35	4.3	0.092	2.31	61.0	12.4	1.99	885	70.9	2.38	11.9	2470	1100	2250
JK-17															
JK-17															
JK-17															
Target Range - Lower Bound															
Upper Bound															
MRGeo08	19.05	0.15	3.3	0.170	3.15	39.0	35.0	1.33	559	15.85	1.97	21.8	727	1050	1080
MRGeo08	18.55	0.17	3.1	0.177	3.03	35.1	34.3	1.27	544	14.50	1.91	21.5	673	1000	1035
MRGeo08	18.35	0.13	3.1	0.163	3.08	34.3	33.1	1.30	538	14.05	1.98	20.7	686	1040	1035
MRGeo08	18.85	0.15	3.3	0.172	3.16	35.1	34.3	1.35	554	15.95	2.08	21.6	712	1100	1100
MRGeo08	20.2	0.15	3.6	0.180	3.26	40.2	34.4	1.37	571	15.55	2.04	22.4	708	1060	1100
MRGeo08	19.50	0.15	3.4	0.176	3.35	39.6	33.8	1.43	586	16.10	2.10	20.9	726	1100	1120
Target Range - Lower Bound	17.50	<0.05	2.8	0.155	2.79	31.1	29.5	1.17	497	13.65	1.76	19.0	622	930	971
Upper Bound	21.5	0.27	3.6	0.201	3.43	39.1	36.5	1.45	619	16.75	2.18	23.4	760	1160	1185
OGGeo08	18.25	0.18	3.1	1.450	2.88	35.8	32.9	1.22	501	930	1.79	18.2	8990	850	7240
OGGeo08	17.80	0.20	3.0	1.450	2.98	35.6	32.6	1.27	500	921	1.84	18.3	8710	880	7300
OGGeo08	17.80	0.21	3.1	1.415	3.14	35.9	33.9	1.35	546	969	1.94	18.3	9140	890	7580
Target Range - Lower Bound	16.05	0.25	2.5	1.320	2.59	31.0	29.7	1.11	447	841	1.62	15.4	8000	760	6520
Upper Bound	19.75	0.49	3.3	1.620	3.19	39.0	36.7	1.38	557	1030	2.00	19.0	9770	950	7970
OREAS 24b	21.3	0.14	4.2	0.092	2.70	43.2	58.0	1.52	434	4.04	0.79	16.1	62.5	690	21.8
OREAS 24b	21.2	0.16	4.0	0.069	2.71	42.9	54.0	1.52	434	3.95	0.79	15.4	60.8	680	22.2
OREAS 24b	20.3	0.13	4.0	0.070	2.74	42.0	50.7	1.54	424	3.79	0.83	14.9	57.6	720	20.6
OREAS 24b	19.85	0.14	3.8	0.069	2.63	41.2	54.0	1.52	415	4.05	0.82	14.4	65.2	690	20.9
OREAS 24b	22.0	0.14	4.2	0.070	2.74	43.7	54.3	1.57	446	3.98	0.83	16.0	60.6	710	22.8
OREAS 24b	19.85	0.18	3.9	0.078	2.67	42.3	52.4	1.53	429	4.01	0.81	14.6	59.6	700	20.5



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## QC CERTIFICATE OF ANALYSIS BU18302927

Sample Description	Method Analyte Units LOD	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1
STANDARDS																
G914-10																
G914-10																
G914-10																
Target Range - Lower Bound																
Upper Bound																
GBM908-10		159.0	<0.002	0.36	1.54	17.8	1	2.9	282	0.78	0.05	18.15	0.623	1.24	2.2	136
GBM908-10		175.5	<0.002	0.36	1.63	18.7	1	3.2	301	0.74	<0.05	18.25	0.674	1.30	2.4	143
GBM908-10		163.5	<0.002	0.38	1.69	17.9	<1	3.1	295	0.89	0.07	17.70	0.670	1.15	2.2	141
GBM908-10		171.0	<0.002	0.37	1.61	18.8	<1	3.1	289	0.73	0.08	18.05	0.648	1.24	2.3	138
GBM908-10		169.5	<0.002	0.38	1.69	19.1	<1	3.3	304	0.81	0.08	18.65	0.678	1.29	2.4	146
GBM908-10		173.5	<0.002	0.38	1.67	19.1	<1	3.1	306	0.81	<0.05	18.00	0.675	1.27	2.4	145
Target Range - Lower Bound		153.0	<0.002	0.33	1.40	17.0	<1	2.7	258	0.68	<0.05	16.55	0.591	1.00	2.0	123
Upper Bound		187.0	0.006	0.43	2.01	21.0	3	3.9	316	0.97	0.16	20.3	0.733	1.40	2.6	153
JK-17																
JK-17																
JK-17																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		204	0.005	0.31	4.45	12.9	1	4.0	315	1.58	<0.05	20.9	0.490	1.06	5.7	108
MRGeo08		188.0	0.008	0.29	4.30	11.6	<1	4.4	297	1.45	<0.05	20.2	0.482	1.07	5.5	106
MRGeo08		190.0	0.007	0.30	4.42	11.8	2	3.8	301	1.55	<0.05	19.75	0.490	1.07	5.6	106
MRGeo08		191.0	0.008	0.31	4.45	12.6	1	4.0	312	1.72	<0.05	19.20	0.506	1.00	5.5	112
MRGeo08		211	0.008	0.31	4.80	12.9	1	4.1	319	1.73	<0.05	22.4	0.501	1.08	6.1	113
MRGeo08		215	0.010	0.32	4.51	12.7	1	3.9	331	1.65	<0.05	21.9	0.521	1.13	6.1	116
Target Range - Lower Bound		173.5	0.005	0.27	3.89	11.1	<1	3.5	277	1.39	<0.05	17.90	0.443	0.89	4.9	97
Upper Bound		212	0.013	0.35	5.39	13.7	4	4.7	339	1.81	0.14	21.9	0.553	1.25	6.2	121
OGGeo08		191.0	1.405	2.77	27.7	10.7	10	14.1	249	1.37	0.15	18.80	0.392	1.73	5.5	87
OGGeo08		191.5	1.295	2.80	26.9	10.2	9	13.9	251	1.34	0.23	18.25	0.405	1.77	5.3	87
OGGeo08		194.5	1.330	2.97	27.0	10.5	10	13.8	268	1.46	0.27	19.15	0.424	1.68	5.0	95
Target Range - Lower Bound		164.5	1.285	2.51	22.8	9.2	8	12.5	224	1.19	0.09	16.90	0.353	1.43	4.5	77
Upper Bound		201	1.575	3.09	31.0	11.4	14	15.7	274	1.57	0.31	20.7	0.443	1.98	5.8	97
OREAS 24b		163.5	<0.002	0.20	0.90	15.7	<1	4.7	121.5	1.16	<0.05	15.70	0.440	0.80	2.8	106
OREAS 24b		161.5	<0.002	0.20	1.02	15.6	1	4.1	121.5	1.19	<0.05	16.55	0.439	0.95	3.1	106
OREAS 24b		159.0	<0.002	0.19	0.86	14.8	<1	4.1	117.5	1.10	<0.05	17.00	0.447	0.79	3.1	107
OREAS 24b		156.0	<0.002	0.19	0.94	14.5	1	4.0	120.0	1.10	<0.05	15.75	0.443	0.78	2.8	104
OREAS 24b		167.0	<0.002	0.19	0.98	15.9	<1	4.3	123.0	1.28	<0.05	16.55	0.452	0.85	3.1	109
OREAS 24b		161.0	<0.002	0.19	0.86	15.2	<1	4.0	117.5	1.17	<0.05	16.05	0.445	0.81	3.1	105



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Sample Description	Method Analyte Units LOD	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
STANDARDS					
G914-10					
G914-10					
G914-10					
Target Range - Lower Bound					
Upper Bound					
GBM908-10		2.9	36.1	1020	149.5
GBM908-10		3.6	37.6	1080	141.0
GBM908-10		3.6	36.5	1060	135.5
GBM908-10		3.0	37.1	1040	138.0
GBM908-10		3.6	39.0	1060	151.5
GBM908-10		4.4	39.1	1080	141.5
Target Range - Lower Bound		2.9	35.2	939	117.5
Upper Bound		4.1	43.2	1150	160.5
JK-17					
JK-17					
JK-17					
Target Range - Lower Bound					
Upper Bound					
MRGeo08		4.8	26.9	805	107.5
MRGeo08		4.3	25.6	775	105.5
MRGeo08		4.6	25.5	775	102.5
MRGeo08		4.9	26.5	814	105.0
MRGeo08		5.2	28.1	805	111.0
MRGeo08		5.1	28.4	834	105.5
Target Range - Lower Bound		4.1	23.8	722	92.2
Upper Bound		5.8	29.3	886	126.0
OGGeo08		4.9	24.5	6870	97.9
OGGeo08		4.6	24.3	7100	93.1
OGGeo08		5.0	24.1	7670	96.8
Target Range - Lower Bound		3.9	21.1	6500	78.6
Upper Bound		5.4	26.0	7950	107.5
OREAS 24b		3.4	20.3	105	144.0
OREAS 24b		3.8	20.4	104	137.5
OREAS 24b		3.2	18.5	105	129.0
OREAS 24b		3.6	19.3	104	131.5
OREAS 24b		4.7	20.3	107	132.5
OREAS 24b		3.4	19.6	104	133.5



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**QC CERTIFICATE OF ANALYSIS BU18302927**

Sample Description	Method Analyte Units LOD	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	ME-MS61 Fe % 0.01
STANDARDS																
OREAS 24b			0.08	7.87	8.7	740	2.76	0.64	1.05	0.09	81.6	16.3	119	10.85	38.2	4.35
OREAS 24b			0.08	7.46	9.7	710	2.43	0.62	1.01	0.04	81.9	16.9	112	10.90	36.9	4.26
OREAS 24b			0.08	7.58	8.3	730	2.58	0.61	1.04	0.07	83.7	15.9	116	10.75	37.6	4.41
Target Range - Lower Bound			0.05	7.02	7.3	600	2.25	0.60	0.94	<0.02	76.8	14.3	105	9.58	35.1	3.94
Upper Bound			0.09	8.60	9.4	830	2.86	0.76	1.18	0.09	93.8	17.8	131	11.80	40.9	4.84
OREAS 61f	4.74															
OREAS 61f	4.89															
OREAS 61f	4.65															
OREAS 61f	4.88															
Target Range - Lower Bound	4.31															
Upper Bound	4.89															
OREAS 905			0.55	7.52	34.8	2780	3.11	6.27	0.59	0.34	96.6	15.4	19	7.23	1530	4.09
OREAS 905			0.48	7.49	34.9	2770	2.73	5.72	0.59	0.31	91.2	14.8	18	7.10	1490	3.98
OREAS 905			0.54	7.41	34.4	2740	2.86	5.77	0.58	0.35	94.8	14.9	17	7.21	1495	3.96
Target Range - Lower Bound			0.46	6.67	31.0	2280	2.69	5.14	0.52	0.30	82.8	13.2	16	6.05	1425	3.66
Upper Bound			0.58	8.17	38.4	3110	3.39	6.30	0.66	0.42	101.0	16.4	22	7.51	1640	4.50
PMP-18	0.31															
PMP-18	0.31															
PMP-18	0.31															
PMP-18	0.32															
Target Range - Lower Bound	0.27															
Upper Bound	0.33															
BLANKS																
BLANK	<0.01															
BLANK	<0.01															
BLANK	0.01															
BLANK	<0.01															
BLANK	<0.01															
BLANK	0.02															
BLANK	0.02															
Target Range - Lower Bound	<0.01															
Upper Bound	0.02															



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**QC CERTIFICATE OF ANALYSIS BU18302927**

Sample Description	Method Analyte Units LOD	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
STANDARDS																
OREAS 24b		20.3	0.13	4.0	0.069	2.79	42.4	55.1	1.59	446	3.72	0.81	15.1	59.3	690	20.6
OREAS 24b		20.6	0.16	4.2	0.075	2.71	40.2	50.9	1.49	418	3.66	0.78	15.0	59.5	650	21.1
OREAS 24b		20.4	0.17	4.0	0.074	2.76	41.2	56.8	1.57	432	3.96	0.81	14.4	58.6	710	22.4
Target Range - Lower Bound		18.05	<0.05	3.4	0.063	2.52	37.7	48.4	1.39	391	3.46	0.70	13.0	53.8	610	20.3
Upper Bound		22.2	0.26	4.4	0.091	3.10	47.1	59.6	1.72	489	4.34	0.88	16.2	66.2	770	25.9
OREAS 61f																
OREAS 61f																
OREAS 61f																
OREAS 61f																
Target Range - Lower Bound																
Upper Bound																
OREAS 905		26.7	0.17	7.4	0.639	2.89	49.0	21.2	0.26	376	3.39	2.42	19.6	9.2	280	32.8
OREAS 905		25.8	0.15	7.1	0.647	2.85	45.0	20.1	0.26	367	3.40	2.39	19.2	12.2	270	29.6
OREAS 905		25.9	0.16	7.3	0.638	2.89	46.9	21.5	0.27	375	3.37	2.39	19.3	9.0	250	31.0
Target Range - Lower Bound		22.5	<0.05	6.1	0.571	2.58	40.9	17.8	0.24	333	2.89	2.15	16.2	8.4		26.9
Upper Bound		27.7	0.27	7.6	0.709	3.18	51.1	22.2	0.31	418	3.65	2.65	20.0	10.7		33.9
PMP-18																
PMP-18																
PMP-18																
PMP-18																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK																
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BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																



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**QC 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
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
STANDARDS															
OREAS 24b		158.5	<0.002	0.20	0.96	15.0	<1	4.0	120.5	1.13	<0.05	15.55	0.445	0.82	2.7
OREAS 24b		157.0	<0.002	0.19	0.92	15.1	<1	4.1	121.5	1.17	<0.05	15.80	0.421	0.86	2.8
OREAS 24b		157.5	<0.002	0.19	0.90	15.0	<1	3.9	119.5	1.14	<0.05	15.90	0.448	0.88	3.0
Target Range - Lower Bound		147.5	<0.002	0.17	0.76	13.7	<1	3.6	111.5	0.99	<0.05	14.75	0.387	0.71	2.7
Upper Bound		180.5	0.006	0.23	1.15	16.9	3	4.9	136.5	1.33	0.10	18.05	0.484	1.01	3.5
OREAS 61f															
OREAS 61f															
OREAS 61f															
OREAS 61f															
Target Range - Lower Bound															
Upper Bound															
OREAS 905		141.0	<0.002	0.07	2.11	5.4	2	4.2	161.0	1.46	0.08	15.80	0.121	0.75	5.3
OREAS 905		136.0	<0.002	0.07	2.05	5.0	2	3.9	155.0	1.38	0.09	14.05	0.123	0.70	4.9
OREAS 905		135.0	<0.002	0.07	2.01	5.2	2	4.2	156.0	1.41	0.06	14.85	0.120	0.72	4.6
Target Range - Lower Bound		124.0	<0.002	0.04	1.61	4.3	<1	3.4	141.0	1.16	<0.05	13.15	0.105	0.59	4.4
Upper Bound		152.0	0.004	0.09	2.29	5.5	5	4.6	173.0	1.52	0.19	16.05	0.139	0.85	5.6
PMP-18															
PMP-18															
PMP-18															
PMP-18															
Target Range - Lower Bound															
Upper Bound															
BLANKS															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															





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## QC CERTIFICATE OF ANALYSIS BU18302927

Sample Description	Method Analyte Units LOD	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
STANDARDS					
OREAS 24b		3.7	18.9	106	135.5
OREAS 24b		3.5	19.5	100	139.5
OREAS 24b		3.3	19.8	107	131.0
Target Range - Lower Bound		3.0	18.3	93	113.5
Upper Bound		4.3	22.5	118	154.5
OREAS 61f					
OREAS 61f					
OREAS 61f					
OREAS 61f					
Target Range - Lower Bound					
Upper Bound					
OREAS 905		3.1	16.5	138	263
OREAS 905		2.8	15.3	137	243
OREAS 905		2.9	16.1	138	261
Target Range - Lower Bound		2.3	14.0	122	214
Upper Bound		3.3	17.4	154	290
PMP-18					
PMP-18					
PMP-18					
PMP-18					
Target Range - Lower Bound					
Upper Bound					
BLANKS					
BLANK					
BLANK					
BLANK					
BLANK					
BLANK					
BLANK					
BLANK					
Target Range - Lower Bound					
Upper Bound					



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## QC CERTIFICATE OF ANALYSIS BU18302927

Sample Description	Method Analyte Units LOD	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	ME-MS61 Fe % 0.01
BLANKS																
BLANK		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	
BLANK		0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	<1	<0.05	0.2	<0.01	
BLANK		0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.04	<0.1	<1	<0.05	0.2	<0.01	
BLANK		0.03	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.03	0.1	2	<0.05	0.5	0.01	
BLANK		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	<1	<0.05	<0.2	<0.01	
BLANK		0.01	<0.01	<0.2	<10	<0.05	0.01	<0.01	<0.02	0.04	0.1	<1	<0.05	0.6	0.01	
BLANK		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	<1	<0.05	<0.2	<0.01	
BLANK		<0.01	<0.01	0.4	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	<1	<0.05	<0.2	<0.01	
BLANK		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	1	<0.05	<0.2	<0.01	
Target Range - Lower Bound		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	
Upper Bound		0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10	0.4	0.02	
DUPLICATES																
ORIGINAL		0.03														
DUP		0.06														
Target Range - Lower Bound		0.03														
Upper Bound		0.06														
ORIGINAL		0.02														
DUP		0.01														
Target Range - Lower Bound		<0.01														
Upper Bound		0.02														
ORIGINAL		<0.01														
DUP		<0.01														
Target Range - Lower Bound		<0.01														
Upper Bound		0.02														
ORIGINAL		0.01														
DUP		0.01														
Target Range - Lower Bound		<0.01														
Upper Bound		0.02														
ORIGINAL		<0.01														
DUP		<0.01														
Target Range - Lower Bound		<0.01														
Upper Bound		0.02														



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**QC CERTIFICATE OF ANALYSIS BU18302927**

Sample Description	Method Analyte Units LOD	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
BLANKS																
BLANK		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	<0.5
BLANK		<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	<0.5
BLANK		<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	<0.5
BLANK		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	0.3	<0.01	<5	0.16	0.01	<0.1	1.6	<10	<0.5
BLANK		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	0.3	<0.01	<5	<0.05	<0.01	<0.1	0.4	<10	<0.5
BLANK		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	0.3	<0.01	<5	<0.05	<0.01	<0.1	2.2	10	<0.5
BLANK		<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	<0.5
BLANK		0.06	0.13	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	10	<0.5
BLANK		<0.05	0.09	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	0.2	<10	<0.5
Target Range - Lower Bound		<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	<0.5
Upper Bound		0.10	0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20	1.0
DUPLICATES																
ORIGINAL DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL DUP																
Target Range - Lower Bound																
Upper Bound																



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## QC CERTIFICATE OF ANALYSIS BU18302927

Sample Description	Method Analyte Units LOD	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1
BLANKS																
BLANK		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
Target Range - Lower Bound		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
Upper Bound		0.2	0.004	0.02	0.10	0.2	2	0.4	0.4	0.10	0.10	0.02	0.010	0.04	0.2	2
DUPLICATES																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																



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**QC CERTIFICATE OF ANALYSIS BU18302927**

Sample Description	Method Analyte Units LOD	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
BLANKS					
BLANK		<0.1	<0.1	<2	<0.5
BLANK		<0.1	<0.1	<2	<0.5
BLANK		<0.1	<0.1	<2	<0.5
BLANK		<0.1	<0.1	<2	<0.5
BLANK		<0.1	<0.1	<2	<0.5
BLANK		<0.1	<0.1	<2	<0.5
BLANK		<0.1	<0.1	<2	<0.5
BLANK		<0.1	<0.1	<2	<0.5
BLANK		<0.1	<0.1	<2	<0.5
Target Range - Lower Bound		<0.1	<0.1	<2	<0.5
Upper Bound		0.2	0.2	4	1.0
DUPLICATES					
ORIGINAL DUP					
Target Range - Lower Bound					
Upper Bound					
ORIGINAL DUP					
Target Range - Lower Bound					
Upper Bound					
ORIGINAL DUP					
Target Range - Lower Bound					
Upper Bound					
ORIGINAL DUP					
Target Range - Lower Bound					
Upper Bound					



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## QC CERTIFICATE OF ANALYSIS BU18302927

Sample Description	Method Analyte Units LOD	Au-AA25 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	ME-MS61 Fe % 0.01
DUPLICATES																
ORIGINAL		0.01														
DUP		0.01														
Target Range - Lower Bound		<0.01														
Upper Bound		0.02														
ORIGINAL		<0.01														
DUP		0.01														
Target Range - Lower Bound		<0.01														
Upper Bound		0.02														
TCD553			0.03	8.14	4.4	1410	2.07	0.17	0.11	<0.02	101.0	16.8	30	1.60	182.5	3.31
DUP			0.10	8.04	4.6	1390	2.04	0.19	0.11	<0.02	99.4	16.8	30	1.56	181.5	3.26
Target Range - Lower Bound			0.05	7.68	4.1	1290	1.90	0.16	0.09	<0.02	95.2	15.9	28	1.45	175.5	3.11
Upper Bound			0.08	8.50	4.9	1520	2.21	0.20	0.13	0.04	105.0	17.7	33	1.71	188.5	3.46
TCD566		<0.01														
DUP		<0.01														
Target Range - Lower Bound		<0.01														
Upper Bound		0.02														
TCD573			0.07	7.18	9.5	1620	0.83	0.20	0.55	<0.02	60.2	64.4	66	1.23	127.5	8.65
DUP			0.07	7.02	9.2	1590	0.80	0.20	0.54	<0.02	58.4	63.5	68	1.16	130.0	8.54
Target Range - Lower Bound			0.06	6.74	8.7	1470	0.72	0.18	0.51	<0.02	56.3	60.7	63	1.09	124.0	8.16
Upper Bound			0.08	7.47	10.0	1740	0.91	0.22	0.58	0.04	62.3	67.2	71	1.30	133.5	9.03
TCD576		<0.01														
DUP		0.01														
Target Range - Lower Bound		<0.01														
Upper Bound		0.02														
TCD587			0.04	7.73	7.3	1410	1.25	0.17	0.73	0.02	65.8	35.7	80	2.53	133.0	10.20
DUP			0.04	7.51	7.3	1380	1.26	0.17	0.72	<0.02	66.0	36.6	79	2.56	128.0	9.87
Target Range - Lower Bound			0.03	7.23	6.7	1280	1.14	0.15	0.68	<0.02	62.6	34.2	75	2.37	125.5	9.52
Upper Bound			0.05	8.01	7.9	1510	1.37	0.19	0.77	0.04	69.2	38.1	84	2.72	135.5	10.55
TCD607			0.22	7.10	76.5	2060	0.91	1.26	0.42	0.04	64.3	110.0	107	1.77	563	9.53
DUP			0.20	7.34	75.4	2340	0.90	1.28	0.44	0.03	63.6	111.5	111	1.77	580	9.83
Target Range - Lower Bound			0.19	6.85	72.0	2030	0.81	1.20	0.40	<0.02	60.7	105.0	103	1.63	551	9.19
Upper Bound			0.23	7.59	79.9	2380	1.00	1.34	0.46	0.04	67.2	116.5	115	1.91	592	10.15



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## QC CERTIFICATE OF ANALYSIS BU18302927

Sample Description	Method Analyte Units LOD	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
DUPLICATES																
ORIGINAL DUP																
Target Range - Lower Bound																
Upper Bound																
TCD553 DUP		17.05 17.50	0.17 0.18	3.5 3.5	0.037 0.037	5.83 5.54	47.4 46.7	18.6 18.6	1.18 1.16	442 438	0.39 0.42	1.38 1.37	11.0 10.9	17.7 17.9	320 320	2.9 3.3
Target Range - Lower Bound		16.35	0.12	3.2	0.030	5.39	44.2	17.5	1.10	413	0.33	1.30	10.3	16.7	290	2.4
Upper Bound		18.20	0.23	3.8	0.044	5.98	49.9	19.7	1.24	467	0.48	1.45	11.6	18.9	350	3.8
TCD566 DUP																
Target Range - Lower Bound																
Upper Bound																
TCD573 DUP		14.60 14.15	0.14 0.14	4.0 4.0	0.033 0.033	5.02 4.90	28.1 27.2	29.6 28.5	2.13 2.11	703 698	1.08 1.90	1.01 1.00	6.1 5.8	76.1 79.2	630 610	8.3 7.9
Target Range - Lower Bound		13.60	0.08	3.7	0.026	4.70	25.8	27.4	2.00	660	1.37	0.94	5.6	73.6	580	7.2
Upper Bound		15.15	0.20	4.3	0.040	5.22	29.5	30.7	2.24	741	1.61	1.07	6.3	81.7	660	9.0
TCD576 DUP																
Target Range - Lower Bound																
Upper Bound																
TCD587 DUP		15.65 15.75	0.14 0.16	3.9 4.0	0.034 0.032	3.85 3.72	32.5 31.7	32.1 31.1	2.81 2.75	940 917	2.25 2.20	1.09 1.05	5.7 5.8	27.8 27.5	560 550	3.4 3.3
Target Range - Lower Bound		14.85	0.09	3.7	0.026	3.59	30.0	29.8	2.63	877	2.06	1.01	5.4	26.1	520	2.7
Upper Bound		16.55	0.21	4.2	0.040	3.98	34.2	33.4	2.93	980	2.39	1.13	6.1	29.2	590	4.0
TCD607 DUP		13.95 13.75	0.15 0.13	3.5 3.5	0.044 0.048	5.35 5.23	32.9 33.0	26.6 26.2	2.46 2.57	599 631	0.80 1.58	0.18 0.18	6.9 6.7	64.7 66.5	550 570	15.1 14.7
Target Range - Lower Bound		13.10	0.08	3.2	0.039	5.02	30.8	24.9	2.38	579	1.08	0.16	6.4	62.1	520	13.7
Upper Bound		14.60	0.20	3.8	0.053	5.56	35.1	27.9	2.65	651	1.30	0.20	7.2	69.1	600	16.1



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## QC CERTIFICATE OF ANALYSIS BU18302927

Sample Description	Method Analyte Units LOD	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
TCD553 DUP Target Range - Lower Bound Upper Bound		204 189.5 187.0 207	<0.002 <0.002 <0.002 0.004	0.07 0.07 0.06 0.08	0.93 0.94 0.81 1.06	10.3 10.5 9.8 11.0	<1 <1 <1 2	2.7 2.9 2.5 3.1	95.6 94.7 90.2 100.0	1.13 1.08 1.00 1.21	<0.05 <0.05 <0.05 0.10	17.80 17.75 16.90 18.65	0.231 0.227 0.213 0.245	0.45 0.44 0.39 0.50	6.8 6.6 6.3 7.1	78 78 73 83
TCD566 DUP Target Range - Lower Bound Upper Bound																
TCD573 DUP Target Range - Lower Bound Upper Bound		189.0 184.5 177.5 196.0	<0.002 0.003 <0.002 0.004	0.35 0.34 0.32 0.37	1.03 0.96 0.87 1.12	21.6 21.6 20.4 22.8	<1 <1 <1 2	2.5 2.4 2.1 2.8	143.0 139.5 134.0 148.5	0.41 0.42 0.34 0.49	<0.05 0.05 <0.05 0.10	9.13 9.46 8.82 9.77	0.329 0.322 0.304 0.347	0.42 0.41 0.36 0.47	5.1 5.2 4.8 5.5	155 151 144 162
TCD576 DUP Target Range - Lower Bound Upper Bound																
TCD587 DUP Target Range - Lower Bound Upper Bound		153.5 152.5 145.5 161.0	0.002 <0.002 <0.002 0.004	0.19 0.20 0.18 0.21	1.07 1.07 0.94 1.20	23.5 23.8 22.4 24.9	<1 <1 <1 2	2.4 2.4 2.1 2.7	147.0 144.5 138.5 153.0	0.43 0.42 0.35 0.50	<0.05 <0.05 <0.05 0.10	9.09 9.14 8.65 9.58	0.382 0.371 0.353 0.400	0.32 0.32 0.28 0.36	5.0 5.0 4.7 5.4	189 183 176 196
TCD607 DUP Target Range - Lower Bound Upper Bound		141.5 141.0 134.0 148.5	0.007 0.010 0.006 0.011	1.47 1.51 1.41 1.57	1.14 1.15 1.01 1.28	22.5 21.7 20.9 23.3	1 1 <1 2	2.1 2.0 1.7 2.4	184.0 189.0 177.0 196.0	0.44 0.45 0.37 0.52	0.10 0.07 <0.05 0.10	8.48 8.37 7.99 8.86	0.373 0.391 0.358 0.406	0.35 0.37 0.31 0.41	5.5 5.6 5.2 5.9	178 186 172 192





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## QC CERTIFICATE OF ANALYSIS BU18302927

Sample Description	Method Analyte Units LOD	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES			
ORIGINAL DUP Target Range - Lower Bound Upper Bound					
TCD553 DUP Target Range - Lower Bound Upper Bound		5.2 5.2 4.7 5.7	28.0 29.5 27.2 30.3	36 35 32 39	114.0 113.0 104.5 122.5
TCD566 DUP Target Range - Lower Bound Upper Bound					
TCD573 DUP Target Range - Lower Bound Upper Bound		7.0 7.1 6.4 7.7	25.3 24.1 23.4 26.0	64 64 59 69	157.0 151.0 142.0 166.0
TCD576 DUP Target Range - Lower Bound Upper Bound					
TCD587 DUP Target Range - Lower Bound Upper Bound		5.2 5.3 4.8 5.7	23.2 23.9 22.3 24.8	98 96 90 104	138.0 137.5 127.0 148.5
TCD607 DUP Target Range - Lower Bound Upper Bound		2.3 2.3 2.0 2.6	18.0 17.9 17.0 18.9	72 74 67 79	123.5 123.5 113.5 133.5



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## QC CERTIFICATE OF ANALYSIS BU18302927

Sample Description	Method Analyte Units LOD	Au-AA25 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	ME-MS61 Fe % 0.01
DUPLICATES																
TCD621			0.10	7.86	10.6	1280	1.35	0.25	1.10	0.04	43.3	48.4	95	2.35	476	9.13
DUP			0.11	7.62	10.5	1250	1.52	0.28	1.05	0.03	47.3	48.9	90	2.52	460	8.81
Target Range - Lower Bound			0.09	7.34	9.8	1160	1.31	0.24	1.01	<0.02	43.0	46.1	87	2.26	451	8.51
Upper Bound			0.12	8.14	11.3	1370	1.56	0.29	1.14	0.04	47.6	51.2	98	2.61	485	9.43
TCD641			0.03	7.59	6.6	1520	1.09	0.29	1.21	<0.02	112.0	45.5	95	1.07	24.8	7.15
DUP			0.04	7.56	6.6	1500	1.07	0.30	1.20	<0.02	115.0	45.5	96	1.10	25.6	7.05
Target Range - Lower Bound			0.02	7.19	6.1	1390	0.98	0.27	1.13	<0.02	108.0	43.1	90	0.98	24.1	6.74
Upper Bound			0.05	7.96	7.1	1630	1.18	0.32	1.28	0.04	119.0	47.9	101	1.19	26.3	7.47
TCD644			<0.01													
DUP			<0.01													
Target Range - Lower Bound			<0.01													
Upper Bound			0.02													
TCD654			0.01													
DUP			<0.01													
Target Range - Lower Bound			<0.01													
Upper Bound			0.02													
TCD655			0.03	7.76	11.8	740	1.43	0.27	2.48	0.06	63.8	62.3	75	2.12	180.0	8.02
DUP			0.05	8.02	11.0	770	1.24	0.28	2.59	0.02	62.9	60.3	79	2.09	186.5	8.31
Target Range - Lower Bound			0.03	7.49	10.6	690	1.22	0.25	2.40	<0.02	60.2	58.1	72	1.95	176.5	7.75
Upper Bound			0.05	8.29	12.2	820	1.45	0.30	2.67	0.06	66.5	64.5	82	2.26	190.0	8.58
TCD674			<0.01													
DUP			<0.01													
Target Range - Lower Bound			<0.01													
Upper Bound			0.02													
TCD675			0.01	8.05	10.6	660	1.38	0.13	1.92	0.02	39.8	32.9	85	1.94	10.0	8.79
DUP			0.01	7.70	10.5	630	1.26	0.13	1.86	<0.02	37.5	31.8	82	1.83	10.5	8.38
Target Range - Lower Bound			<0.01	7.47	9.8	590	1.20	0.11	1.79	<0.02	36.7	30.6	78	1.74	9.7	8.15
Upper Bound			0.02	8.28	11.3	700	1.44	0.15	1.99	0.04	40.6	34.1	89	2.03	10.8	9.02
TCD689			0.10	6.82	13.3	1260	1.32	0.42	1.56	0.02	68.5	74.2	90	1.76	170.0	15.05
DUP			0.09	6.53	12.2	1240	1.25	0.39	1.51	<0.02	67.4	73.7	89	1.61	161.5	14.70
Target Range - Lower Bound			0.08	6.33	11.9	1150	1.17	0.37	1.45	<0.02	64.5	70.2	84	1.55	159.5	14.10
Upper Bound			0.11	7.02	13.6	1350	1.40	0.44	1.62	0.04	71.4	77.7	95	1.82	172.0	15.65

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



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## QC CERTIFICATE OF ANALYSIS BU18302927

Sample Description	Method Analyte Units LOD	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
DUPLICATES																
TCD621		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	9.4
DUP		16.55	0.15	3.6	0.035	3.51	22.8	36.0	2.68	642	3.13	0.92	7.0	69.6	790	10.3
Target Range - Lower Bound		15.30	0.08	3.2	0.025	3.38	20.1	33.6	2.59	615	2.89	0.88	6.4	65.5	770	8.9
Upper Bound		17.00	0.19	3.8	0.038	3.76	23.2	37.5	2.89	690	3.30	0.99	7.2	72.8	870	10.8
TCD641		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	3.8
DUP		13.75	0.24	3.9	0.037	5.38	62.8	23.0	1.46	476	2.64	1.20	7.4	34.2	560	3.7
Target Range - Lower Bound		13.00	0.16	3.5	0.029	5.10	58.0	21.4	1.38	449	2.47	1.13	6.8	31.8	520	3.1
Upper Bound		14.50	0.29	4.1	0.043	5.65	65.2	24.0	1.54	506	2.84	1.28	7.8	35.6	590	4.4
TCD644																
DUP																
Target Range - Lower Bound																
Upper Bound																
TCD654																
DUP																
Target Range - Lower Bound																
Upper Bound																
TCD655		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	4.4
DUP		16.55	0.15	3.7	0.033	2.64	31.0	24.8	2.40	519	1.56	1.58	6.8	50.1	620	3.9
Target Range - Lower Bound		15.90	0.08	3.4	0.029	2.44	29.2	23.9	2.22	477	1.50	1.47	6.5	48.1	560	3.4
Upper Bound		17.65	0.20	3.9	0.042	2.72	33.3	26.8	2.48	537	1.76	1.64	7.3	53.5	640	4.9
TCD674																
DUP																
Target Range - Lower Bound																
Upper Bound																
TCD675		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	2.2
DUP		16.75	0.19	3.3	0.020	3.10	18.4	29.2	2.05	465	2.40	1.77	7.1	42.9	490	2.1
Target Range - Lower Bound		16.05	0.12	3.1	0.015	2.99	17.6	27.4	1.98	457	1.89	1.71	6.7	39.2	460	1.5
Upper Bound		17.85	0.23	3.6	0.027	3.32	20.5	30.7	2.20	516	2.20	1.91	7.6	43.7	520	2.8
TCD689		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	4.6
DUP		15.60	0.25	2.9	0.038	3.62	32.0	31.9	2.40	924	1.40	0.93	4.9	167.5	1190	4.2
Target Range - Lower Bound		15.15	0.22	2.7	0.032	3.43	30.7	31.2	2.31	881	1.36	0.88	4.8	161.0	1150	3.7
Upper Bound		16.85	0.34	3.2	0.046	3.82	35.0	34.9	2.57	985	1.61	0.99	5.5	178.5	1290	5.1



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## QC CERTIFICATE OF ANALYSIS BU18302927

Sample Description	Method Analyte Units LOD	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1
DUPLICATES																
TCD621		164.5	<0.002	0.54	0.88	24.1	1	2.6	179.5	0.45	0.05	8.43	0.402	0.33	5.0	239
DUP		175.5	0.002	0.52	0.94	25.8	<1	2.7	176.0	0.46	<0.05	9.29	0.389	0.32	5.4	230
Target Range - Lower Bound		161.5	<0.002	0.49	0.79	23.6	<1	2.3	168.5	0.38	<0.05	8.41	0.371	0.28	4.8	222
Upper Bound		178.5	0.004	0.57	1.03	26.3	2	3.0	187.0	0.53	0.10	9.31	0.420	0.37	5.6	247
TCD641		197.5	0.008	0.38	0.78	23.4	<1	4.0	234	0.46	<0.05	9.74	0.391	0.43	4.2	165
DUP		202	0.006	0.37	0.77	23.5	<1	4.1	231	0.50	0.05	9.50	0.392	0.44	4.2	167
Target Range - Lower Bound		189.5	0.005	0.35	0.67	22.2	<1	3.6	221	0.41	<0.05	9.13	0.367	0.38	3.9	157
Upper Bound		210	0.009	0.40	0.88	24.7	2	4.5	244	0.55	0.10	10.10	0.416	0.49	4.5	175
TCD644																
DUP																
Target Range - Lower Bound																
Upper Bound																
TCD654																
DUP																
Target Range - Lower Bound																
Upper Bound																
TCD655		127.5	<0.002	0.55	0.69	26.5	1	2.8	216	0.46	<0.05	8.92	0.401	0.22	3.8	183
DUP		124.5	0.002	0.57	0.69	25.7	1	2.7	223	0.46	0.06	9.00	0.416	0.24	3.9	189
Target Range - Lower Bound		119.5	<0.002	0.52	0.59	24.7	<1	2.4	208	0.39	<0.05	8.50	0.383	0.19	3.6	176
Upper Bound		132.5	0.004	0.60	0.79	27.5	2	3.1	231	0.53	0.10	9.42	0.434	0.27	4.1	196
TCD674																
DUP																
Target Range - Lower Bound																
Upper Bound																
TCD675		174.0	<0.002	0.25	1.00	26.9	<1	3.2	289	0.47	0.08	8.89	0.411	0.32	3.4	233
DUP		168.0	0.003	0.23	0.90	26.4	1	3.2	279	0.48	0.05	8.55	0.399	0.32	3.2	225
Target Range - Lower Bound		162.5	<0.002	0.22	0.83	25.2	<1	2.8	270	0.40	<0.05	8.27	0.380	0.28	3.0	217
Upper Bound		179.5	0.004	0.26	1.07	28.1	2	3.6	298	0.55	0.10	9.17	0.430	0.36	3.6	241
TCD689		144.5	0.002	0.81	1.58	24.1	<1	5.5	251	0.35	0.13	16.85	0.360	0.29	4.1	568
DUP		143.5	0.004	0.80	1.49	22.9	1	5.3	247	0.34	0.10	17.20	0.344	0.29	4.1	540
Target Range - Lower Bound		136.5	<0.002	0.75	1.37	22.2	<1	4.9	236	0.28	0.06	16.15	0.329	0.25	3.8	525
Upper Bound		151.5	0.004	0.86	1.70	24.8	2	5.9	262	0.41	0.17	17.90	0.375	0.33	4.4	583



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# **QC CERTIFICATE OF ANALYSIS BU18302927**

Sample Description	Method Analyte Units LOD	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
DUPLICATES					
TCD621		8.5	18.8	88	123.0
DUP		8.6	19.9	83	127.5
Target Range - Lower Bound		7.8	18.3	79	115.5
Upper Bound		9.3	20.4	92	135.0
TCD641		1.9	37.9	43	139.0
DUP		1.9	38.6	42	140.5
Target Range - Lower Bound		1.7	36.2	38	129.0
Upper Bound		2.1	40.3	47	150.5
TCD644					
DUP					
Target Range - Lower Bound					
Upper Bound					
TCD654					
DUP					
Target Range - Lower Bound					
Upper Bound					
TCD655		3.6	26.7	43	119.5
DUP		3.8	26.8	45	118.0
Target Range - Lower Bound		3.3	25.3	40	109.5
Upper Bound		4.1	28.2	48	128.0
TCD674					
DUP					
Target Range - Lower Bound					
Upper Bound					
TCD675		4.4	18.3	53	122.5
DUP		4.4	17.6	51	113.0
Target Range - Lower Bound		4.0	17.0	47	108.5
Upper Bound		4.8	18.9	57	127.0
TCD689		5.8	41.1	110	105.0
DUP		5.6	39.5	103	105.0
Target Range - Lower Bound		5.2	38.2	99	96.6
Upper Bound		6.2	42.4	114	113.5



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## QC CERTIFICATE OF ANALYSIS BU18302927

Sample Description	Method Analyte Units LOD	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	ME-MS61 Fe % 0.01
DUPLICATES																
TCD709			0.12	6.81	8.1	1430	0.98	0.22	1.41	<0.02	47.3	50.2	112	1.90	536	9.83
DUP			0.14	6.85	8.3	1460	0.80	0.21	1.44	0.02	49.3	50.2	118	1.98	548	9.95
Target Range - Lower Bound			0.11	6.48	7.6	1330	0.80	0.19	1.34	<0.02	45.9	47.6	108	1.79	523	9.39
Upper Bound			0.15	7.18	8.8	1560	0.98	0.24	1.51	0.04	50.7	52.8	122	2.09	561	10.40
TCD722		0.01														
DUP		0.01														
Target Range - Lower Bound		<0.01														
Upper Bound		0.02														
TCD723			0.08	7.76	10.2	910	1.43	0.24	1.83	<0.02	41.4	47.6	111	2.04	439	10.60
DUP			0.06	7.52	10.6	890	1.24	0.22	1.77	0.02	43.0	45.9	109	2.07	422	10.25
Target Range - Lower Bound			0.06	7.25	9.7	820	1.22	0.21	1.70	<0.02	40.1	44.3	104	1.90	415	9.89
Upper Bound			0.08	8.03	11.1	980	1.45	0.25	1.90	0.04	44.3	49.2	117	2.21	446	10.95
TCD743			0.04	7.63	22.5	480	1.37	0.40	2.53	<0.02	53.4	81.1	118	7.34	185.0	11.15
DUP			0.05	7.46	20.6	470	1.30	0.34	2.48	0.03	49.1	76.2	117	6.67	180.0	10.95
Target Range - Lower Bound			0.03	7.16	20.3	430	1.22	0.34	2.37	<0.02	48.7	74.6	111	6.60	176.0	10.50
Upper Bound			0.06	7.93	22.8	520	1.45	0.40	2.64	0.04	53.8	82.7	124	7.41	189.0	11.60
TCD752		0.01														
DUP		0.01														
Target Range - Lower Bound		<0.01														
Upper Bound		0.02														
TCD757			0.08	8.79	6.8	1180	1.91	0.10	1.21	<0.02	146.0	8.1	17	1.56	493	4.76
DUP			0.07	8.85	7.6	1180	1.96	0.10	1.23	0.02	152.5	8.5	17	1.59	497	4.84
Target Range - Lower Bound			0.06	8.37	6.6	1080	1.79	0.09	1.15	<0.02	142.0	7.8	15	1.45	477	4.55
Upper Bound			0.09	9.27	7.8	1280	2.08	0.12	1.29	0.04	156.5	8.8	19	1.70	513	5.05
TCD767			0.17	5.07	62.2	150	1.15	0.57	5.70	0.05	347	235	46	5.08	908	17.30
DUP			0.16	5.11	62.4	150	1.14	0.58	5.71	0.05	345	232	45	5.07	938	17.50
Target Range - Lower Bound			0.15	4.83	59.0	130	1.04	0.54	5.41	0.03	329	222	42	4.77	890	16.50
Upper Bound			0.18	5.35	65.6	170	1.25	0.61	6.00	0.07	363	245	49	5.38	956	18.30
TCD777			0.02	7.28	7.2	1090	1.23	0.21	1.89	<0.02	62.9	33.7	90	4.16	75.6	8.72
DUP			0.02	6.72	6.9	1000	1.22	0.21	1.77	0.02	63.6	33.9	85	4.18	73.4	8.07
Target Range - Lower Bound			<0.01	6.64	6.5	960	1.11	0.19	1.73	<0.02	60.1	32.0	82	3.91	71.7	7.97
Upper Bound			0.03	7.36	7.6	1130	1.34	0.23	1.93	0.04	66.4	35.6	93	4.43	77.3	8.82



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## QC CERTIFICATE OF ANALYSIS BU18302927

Sample Description	Method Analyte Units LOD	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
DUPLICATES																
TCD709		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	4.1
DUP		13.90	0.14	3.8	0.037	4.22	24.0	24.8	2.30	530	1.38	0.77	6.2	25.6	470	4.1
Target Range - Lower Bound		13.25	0.08	3.6	0.029	3.97	22.1	23.9	2.15	493	1.24	0.72	5.8	24.0	430	3.4
Upper Bound		14.75	0.19	4.1	0.043	4.40	25.5	26.8	2.39	555	1.48	0.81	6.7	27.0	500	4.8
TCD722																
DUP																
Target Range - Lower Bound																
Upper Bound																
TCD723		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	2.5
DUP		16.55	0.10	3.9	0.043	3.26	21.0	24.0	2.70	533	5.09	1.24	6.4	38.7	560	2.4
Target Range - Lower Bound		15.65	<0.05	3.6	0.032	3.13	19.3	22.7	2.59	505	4.77	1.19	5.9	36.5	540	1.8
Upper Bound		17.40	0.17	4.1	0.046	3.48	22.3	25.6	2.89	569	5.38	1.33	6.7	40.8	620	3.1
TCD743		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	3.2
DUP		15.20	0.14	3.4	0.034	2.24	22.9	22.0	3.12	370	2.49	1.70	5.4	133.5	530	2.9
Target Range - Lower Bound		15.00	0.10	3.2	0.031	2.12	22.3	21.7	2.98	351	2.41	1.62	5.3	129.5	490	2.4
Upper Bound		16.65	0.21	3.8	0.045	2.37	25.7	24.4	3.31	398	2.77	1.81	6.1	143.5	570	3.7
TCD752																
DUP																
Target Range - Lower Bound																
Upper Bound																
TCD757		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	2.2
DUP		18.40	0.21	5.8	0.039	5.45	75.6	14.5	1.16	521	2.29	2.69	12.2	22.8	700	2.4
Target Range - Lower Bound		17.30	0.16	5.5	0.030	5.16	69.6	13.6	1.08	490	2.19	2.54	11.4	21.3	650	1.7
Upper Bound		19.20	0.29	6.2	0.043	5.73	77.9	15.5	1.22	552	2.52	2.82	12.8	23.9	730	2.9
TCD767		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	14.1
DUP		16.00	0.48	1.8	0.056	1.09	135.0	26.4	2.46	324	1.88	1.16	4.8	521	>10000	14.6
Target Range - Lower Bound		15.15	0.41	1.6	0.048	1.01	128.5	24.9	2.32	299	1.70	1.09	4.5	495	9490	13.1
Upper Bound		16.80	0.55	1.9	0.064	1.14	143.5	28.0	2.59	341	1.99	1.22	5.1	548	>10000	15.6
TCD777		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	2.8
DUP		15.05	0.14	3.9	0.029	3.51	31.8	23.1	2.19	366	0.83	1.07	7.0	27.0	450	2.7
Target Range - Lower Bound		14.10	0.09	3.6	0.024	3.45	29.5	21.7	2.15	356	0.78	1.04	6.6	25.3	440	2.1
Upper Bound		15.65	0.20	4.2	0.037	3.84	33.6	24.4	2.40	405	0.97	1.18	7.5	28.3	500	3.4



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## QC CERTIFICATE OF ANALYSIS BU18302927

Sample Description	Method Analyte Units LOD	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1
DUPLICATES																
TCD709		174.0	<0.002	0.28	0.78	22.9	<1	3.6	206	0.47	0.07	8.30	0.325	0.32	3.8	164
DUP		167.5	<0.002	0.28	0.82	22.3	<1	3.6	210	0.47	0.11	7.75	0.328	0.33	3.8	168
Target Range - Lower Bound		162.0	<0.002	0.26	0.69	21.4	<1	3.2	197.5	0.40	<0.05	7.61	0.305	0.28	3.5	157
Upper Bound		179.5	0.004	0.30	0.91	23.8	2	4.0	219	0.54	0.10	8.44	0.348	0.37	4.1	175
TCD722																
DUP																
Target Range - Lower Bound																
Upper Bound																
TCD723		165.0	0.002	0.32	1.04	22.7	<1	3.4	243	0.43	0.07	9.81	0.364	0.28	3.2	242
DUP		166.5	0.003	0.30	1.01	22.9	1	3.5	237	0.45	<0.05	9.80	0.350	0.26	3.1	238
Target Range - Lower Bound		157.5	<0.002	0.28	0.90	21.6	<1	3.1	228	0.37	<0.05	9.30	0.334	0.23	2.9	227
Upper Bound		174.0	0.004	0.34	1.15	24.0	2	3.8	252	0.51	0.10	10.30	0.380	0.31	3.4	253
TCD743		164.5	0.003	0.92	0.85	27.5	1	3.3	268	0.43	0.21	11.20	0.352	0.31	3.6	282
DUP		155.5	0.002	0.91	0.83	25.5	1	3.1	263	0.36	0.23	9.35	0.344	0.28	3.2	278
Target Range - Lower Bound		152.0	<0.002	0.86	0.73	25.1	<1	2.8	252	0.33	0.16	9.75	0.326	0.25	3.1	265
Upper Bound		168.0	0.004	0.97	0.95	27.9	2	3.6	279	0.46	0.28	10.80	0.370	0.34	3.7	295
TCD752																
DUP																
Target Range - Lower Bound																
Upper Bound																
TCD757		219	<0.002	0.07	1.16	11.0	<1	6.3	173.5	0.98	<0.05	18.45	0.387	0.47	7.4	121
DUP		225	<0.002	0.08	1.19	11.1	<1	6.5	176.0	0.99	<0.05	18.70	0.382	0.47	7.5	123
Target Range - Lower Bound		211	<0.002	0.06	1.04	10.4	<1	5.9	166.0	0.89	<0.05	17.65	0.360	0.41	7.0	115
Upper Bound		233	0.004	0.09	1.31	11.7	2	6.9	183.5	1.08	0.10	19.50	0.409	0.53	7.9	129
TCD767		79.3	0.005	2.99	1.53	24.0	2	4.0	186.5	0.29	0.39	26.3	0.249	0.17	4.8	391
DUP		79.7	0.006	2.99	1.57	24.0	2	4.1	187.5	0.30	0.33	27.2	0.253	0.19	4.9	394
Target Range - Lower Bound		75.4	0.003	2.83	1.38	22.7	<1	3.6	177.5	0.23	0.29	25.4	0.233	0.15	4.5	372
Upper Bound		83.6	0.008	3.15	1.72	25.3	3	4.5	196.5	0.36	0.43	28.1	0.269	0.21	5.2	413
TCD777		179.0	<0.002	0.43	0.60	24.2	1	2.2	218	0.48	0.05	9.41	0.363	0.31	2.9	175
DUP		184.0	<0.002	0.40	0.64	24.5	1	2.3	202	0.48	0.05	9.32	0.341	0.34	2.9	161
Target Range - Lower Bound		172.5	<0.002	0.38	0.52	23.0	<1	1.9	199.5	0.41	<0.05	8.89	0.329	0.28	2.7	159
Upper Bound		190.5	0.004	0.45	0.72	25.7	2	2.6	221	0.55	0.10	9.84	0.375	0.37	3.1	177





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## QC CERTIFICATE OF ANALYSIS BU18302927

Sample Description	Method Analyte Units LOD	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
DUPLICATES					
TCD709		1.4	25.1	44	133.5
DUP		1.5	24.2	45	139.5
Target Range - Lower Bound		1.2	23.3	40	126.0
Upper Bound		1.7	26.0	49	147.0
TCD722					
DUP					
Target Range - Lower Bound					
Upper Bound					
TCD723		1.2	22.3	50	142.0
DUP		1.3	22.0	49	145.0
Target Range - Lower Bound		1.1	20.9	45	132.0
Upper Bound		1.4	23.4	54	155.0
TCD743		1.3	24.2	25	119.5
DUP		1.1	21.4	25	111.5
Target Range - Lower Bound		1.0	21.6	22	106.5
Upper Bound		1.4	24.0	28	124.5
TCD752					
DUP					
Target Range - Lower Bound					
Upper Bound					
TCD757		3.4	49.8	49	214
DUP		3.4	51.4	49	216
Target Range - Lower Bound		3.0	48.0	45	198.5
Upper Bound		3.8	53.2	53	232
TCD767		13.8	116.0	28	59.3
DUP		13.3	115.5	27	60.1
Target Range - Lower Bound		12.4	110.0	24	54.7
Upper Bound		14.7	121.5	31	64.7
TCD777		1.2	19.9	33	137.5
DUP		1.1	20.3	31	155.0
Target Range - Lower Bound		1.0	19.0	28	135.0
Upper Bound		1.3	21.2	36	157.5



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**QC CERTIFICATE OF ANALYSIS BU18302927**

Sample Description	Method Analyte Units LOD	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	ME-MS61 Fe % 0.01
DUPLICATES																
TCD797			0.02	7.72	7.7	270	1.06	0.09	2.93	<0.02	37.5	26.7	51	4.85	68.7	8.64
DUP			0.03	8.24	8.5	280	1.11	0.10	3.05	<0.02	39.3	28.1	53	4.97	70.5	9.09
Target Range - Lower Bound			<0.01	7.57	7.5	240	0.98	0.08	2.83	<0.02	36.5	25.9	48	4.61	67.0	8.41
Upper Bound			0.04	8.39	8.7	310	1.19	0.11	3.15	0.04	40.3	28.9	56	5.21	72.2	9.32
TCD811			0.02	8.08	6.1	1500	2.92	0.13	0.91	<0.02	87.4	11.2	18	1.06	171.5	4.09
DUP			0.01	7.86	5.5	1470	2.72	0.12	0.88	<0.02	77.9	10.5	17	0.96	161.0	3.98
Target Range - Lower Bound			<0.01	7.56	5.3	1360	2.63	0.11	0.84	<0.02	78.5	10.2	16	0.91	160.0	3.82
Upper Bound			0.02	8.38	6.3	1610	3.01	0.14	0.95	0.04	86.8	11.5	19	1.11	172.5	4.25
TCD824			0.03	7.03	6.9	620	1.43	0.12	1.28	<0.02	45.0	26.6	100	2.87	21.6	6.19
DUP			0.03	7.03	7.2	620	1.45	0.11	1.27	<0.02	44.0	27.1	101	2.87	21.1	6.16
Target Range - Lower Bound			0.02	6.67	6.5	560	1.32	0.10	1.20	<0.02	42.3	25.4	94	2.68	20.4	5.86
Upper Bound			0.04	7.39	7.6	680	1.56	0.13	1.35	0.04	46.7	28.3	107	3.06	22.3	6.49





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# QC CERTIFICATE OF ANALYSIS BU18302927

Sample Description	Method Analyte Units LOD	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1
DUPLICATES																
TCD797		195.0	<0.002	0.23	0.72	24.0	<1	3.5	208	0.39	0.05	9.20	0.404	0.37	2.3	185
DUP		202	<0.002	0.24	0.75	25.4	1	3.6	219	0.43	0.05	8.66	0.417	0.37	2.3	194
Target Range - Lower Bound		188.5	<0.002	0.21	0.63	23.4	<1	3.2	203	0.34	<0.05	8.47	0.385	0.32	2.1	179
Upper Bound		209	0.004	0.26	0.84	26.0	2	3.9	224	0.48	0.10	9.39	0.436	0.42	2.5	200
TCD811		207	<0.002	0.05	0.65	11.8	1	3.7	168.5	1.09	<0.05	19.25	0.262	0.45	7.4	101
DUP		169.5	<0.002	0.05	0.58	10.9	<1	3.4	164.0	0.99	<0.05	17.15	0.255	0.42	6.6	97
Target Range - Lower Bound		178.5	<0.002	0.04	0.52	10.7	<1	3.2	157.5	0.94	<0.05	17.30	0.241	0.38	6.6	93
Upper Bound		198.0	0.004	0.06	0.71	12.0	2	3.9	175.0	1.14	0.10	19.10	0.276	0.49	7.5	105
TCD824		94.1	<0.002	0.39	0.71	23.6	<1	2.3	137.5	0.49	0.08	9.95	0.341	0.18	3.6	167
DUP		92.4	<0.002	0.40	0.68	23.2	<1	2.3	136.5	0.46	0.08	9.24	0.340	0.20	3.6	168
Target Range - Lower Bound		88.5	<0.002	0.37	0.59	22.1	<1	2.0	130.0	0.40	<0.05	9.11	0.318	0.16	3.3	158
Upper Bound		98.0	0.004	0.42	0.80	24.7	2	2.6	144.0	0.55	0.10	10.10	0.363	0.22	3.9	177





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**QC 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