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Plus Appendix Pages
Finalized Date: 15-AUG-2017
Account: TODRIV

CERTIFICATE AD17157635

P.O. No.: TRR17-001

This report is for 142 Rock samples submitted to our lab in Adelaide, SA, Australia on 31-JUL-2017.

The following have access to data associated with this certificate:

PAUL BURTON
CATH WETHERBY

KIM GREY

GAVIN OTTO

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
LEV-01	Waste Disposal Levy
CRU-21	Crush entire sample >70% -6 mm
PUL-23	Pulv Sample - Split/Retain
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
B-MS89L	Boron Add-on to ME-MS89L	
ME-MS89L	Super Trace Na2O2 by ICP-MS	ICP-MS

To: TODD RIVER METALS
ATTN: CATH WETHERBY
LEVEL 1
282 ROKEBY ROAD
SUBIACO WA 6008

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:

Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS AD17157635

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-MS89L Ag ppm 5	ME-MS89L As ppm 4	ME-MS89L Ba ppm 2	ME-MS89L Be ppm 0.4	ME-MS89L Bi ppm 0.1	ME-MS89L Ca % 0.1	ME-MS89L Cd ppm 0.8	ME-MS89L Ce ppm 0.2	ME-MS89L Co ppm 0.5	ME-MS89L Cs ppm 0.1	ME-MS89L Cu ppm 20	ME-MS89L Dy ppm 0.03	ME-MS89L Er ppm 0.02	ME-MS89L Eu ppm 0.03
W17103		1.15	<5	<4	121	31.2	0.8	0.3	<0.8	5.0	1.9	179.0	<20	0.52	0.36	0.10
W17104		1.12	<5	<4	68	160.5	<0.1	0.4	<0.8	2.8	2.1	91.4	<20	0.64	0.25	0.10
W17105		1.05	<5	<4	608	4.0	<0.1	2.5	<0.8	84.6	7.6	48.4	<20	17.35	11.00	3.02
W17106		0.95	<5	<4	663	3.2	<0.1	2.3	<0.8	81.2	9.3	52.2	<20	14.70	9.11	2.92
W17107		1.03	<5	<4	178	7.9	<0.1	0.7	<0.8	4.2	0.9	317	<20	0.56	0.22	0.15
W17108		0.93	<5	<4	621	3.5	<0.1	0.3	<0.8	1.5	0.5	317	<20	0.27	0.12	0.03
W17109		0.97	<5	<4	222	65.3	<0.1	0.4	<0.8	2.6	0.6	369	<20	0.23	0.13	0.09
W17110		0.68	<5	<4	95	57.4	<0.1	0.5	<0.8	2.9	0.6	101.0	<20	0.47	0.27	0.05
W17111		0.86	<5	<4	80	5.7	<0.1	0.2	<0.8	2.2	0.7	77.3	<20	0.34	0.12	0.05
W17112		0.98	<5	<4	117	4.6	0.1	0.4	<0.8	2.3	1.4	107.5	<20	0.20	0.19	0.06
W17113		1.24	<5	4	56	211	<0.1	0.4	<0.8	2.8	0.6	95.6	<20	0.57	0.26	0.12
W17114		0.56	<5	<4	52	320	<0.1	0.6	<0.8	2.9	2.5	51.9	<20	0.46	0.22	<0.03
W17115		0.98	<5	<4	199	220	<0.1	0.6	<0.8	2.1	1.0	44.8	<20	0.50	0.26	0.06
W17116		0.77	<5	<4	108	7.3	<0.1	0.3	<0.8	2.5	3.5	175.5	<20	0.40	0.10	0.10
W17117		1.38	<5	<4	54	70.8	0.1	0.2	<0.8	3.2	1.8	84.8	<20	0.52	0.22	0.07
W17118		1.25	<5	<4	29	4.6	<0.1	0.3	<0.8	1.5	2.0	97.5	<20	0.17	0.02	0.03
W17119		0.94	<5	<4	34	159.0	<0.1	0.2	<0.8	1.3	0.8	168.0	<20	0.18	0.06	0.06
W17120		1.77	<5	<4	43	5.4	<0.1	0.5	<0.8	3.8	1.4	23.9	<20	0.27	0.13	0.13
W17121		1.33	<5	6	74	7.5	0.3	0.2	<0.8	3.5	0.9	206	<20	0.39	0.16	0.11
W17122		1.43	<5	<4	79	40.5	0.2	0.2	<0.8	1.3	0.7	214	<20	0.34	0.13	0.10
W17123		0.85	<5	<4	186	31.0	0.2	0.1	<0.8	2.0	0.6	266	<20	0.26	0.06	0.03
W17124		1.06	<5	<4	34	13.3	<0.1	0.1	<0.8	5.2	1.7	99.0	<20	0.41	0.19	0.09
W17125		0.59	<5	<4	235	17.5	0.2	0.4	<0.8	4.0	0.7	87.7	<20	0.36	0.19	0.08
W17126		0.83	<5	<4	149	4.6	0.9	0.2	<0.8	4.5	1.7	227	<20	0.16	0.05	0.07
W17126A		<0.02	<5	<4	52	190.5	1.1	0.2	<0.8	0.3	0.7	142.5	<20	0.09	0.03	<0.03
W17127		0.86	<5	<4	89	85.6	0.2	0.2	<0.8	4.6	0.7	145.5	<20	0.34	0.14	0.12
W17128		0.59	<5	<4	46	124.5	<0.1	0.2	<0.8	1.5	1.5	166.0	<20	0.23	0.09	0.03
W17129		1.01	<5	<4	63	7.1	0.1	0.1	<0.8	2.8	1.2	218	<20	0.15	0.11	0.03
W17130		1.01	<5	<4	232	8.3	0.1	0.5	<0.8	11.4	0.8	183.5	<20	0.80	0.36	0.29
W17131		1.07	<5	<4	101	9.1	<0.1	0.6	<0.8	5.6	1.8	35.1	<20	0.47	0.32	0.13
W17132		1.05	<5	<4	87	4.2	<0.1	0.5	<0.8	2.5	1.2	10.1	<20	0.35	0.15	0.05
W17133		0.56	<5	<4	95	4.3	0.5	0.3	<0.8	2.1	1.4	51.3	<20	0.55	0.39	0.09
W17134		0.96	<5	<4	137	163.5	<0.1	0.7	<0.8	3.8	1.0	49.8	<20	0.66	0.37	0.04
W17135		0.98	<5	<4	364	202	<0.1	0.7	<0.8	9.9	11.2	67.9	<20	1.22	0.70	0.24
W17136		1.15	<5	4	101	19.5	0.1	0.4	<0.8	1.5	2.5	142.5	<20	0.29	0.15	<0.03
W17137		0.45	<5	<4	66	21.8	<0.1	0.2	<0.8	3.5	1.0	62.1	<20	0.38	0.23	<0.03
W17138		0.58	<5	<4	210	230	<0.1	0.6	<0.8	5.2	2.5	18.0	<20	0.58	0.36	0.11
W17139		1.01	<5	<4	79	300	<0.1	0.6	<0.8	4.5	1.9	54.1	<20	1.00	0.26	0.13
W17140		0.82	<5	<4	98	202	<0.1	0.8	<0.8	2.3	0.7	140.0	<20	0.57	0.18	<0.03
W17141		1.15	<5	<4	87	7.8	0.1	0.3	<0.8	2.1	0.9	201	<20	0.37	0.18	0.05



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Sample Description	Method Analyte Units LOR	ME-MS89L Fe %	ME-MS89L Ga ppm	ME-MS89L Gd ppm	ME-MS89L Ge ppm	ME-MS89L Ho ppm	ME-MS89L In ppm	ME-MS89L La ppm	ME-MS89L Li ppm	ME-MS89L Lu ppm	ME-MS89L Mn ppm	ME-MS89L Mo ppm	ME-MS89L Nb ppm	ME-MS89L Nd ppm	ME-MS89L Ni ppm	ME-MS89L Pb ppm
		0.05	0.5	0.03	0.5	0.01	0.3	0.08	2	0.05	10	2	0.8	0.07	10	0.5
W17103		0.60	28.3	0.67	5.9	0.11	<0.3	1.78	45	<0.05	450	<2	56.5	2.54	<10	6.2
W17104		0.45	26.0	0.49	5.4	0.09	<0.3	1.37	33	0.05	710	<2	56.0	1.67	<10	6.5
W17105		7.20	24.0	13.85	1.8	3.82	<0.3	41.2	131	1.77	1180	<2	16.9	46.1	<10	14.6
W17106		7.88	22.5	12.35	2.1	3.25	<0.3	29.1	116	1.38	1220	<2	14.9	38.9	<10	13.5
W17107		0.66	49.1	0.56	3.9	0.09	<0.3	1.78	124	<0.05	410	<2	62.4	1.82	<10	3.2
W17108		0.33	20.3	0.26	5.9	0.03	<0.3	0.58	20	<0.05	90	<2	16.8	0.61	<10	8.8
W17109		0.47	22.2	0.34	5.0	0.07	<0.3	0.95	35	<0.05	170	<2	36.2	1.09	<10	7.4
W17110		0.53	32.4	0.40	4.8	0.09	<0.3	1.20	111	<0.05	410	<2	81.5	1.41	<10	4.5
W17111		0.50	34.1	0.27	4.6	0.06	<0.3	1.07	135	<0.05	180	<2	78.5	1.12	<10	3.4
W17112		0.53	23.8	0.33	5.3	0.04	<0.3	0.86	33	<0.05	410	<2	60.4	0.84	<10	4.5
W17113		0.34	20.9	0.47	4.5	0.08	<0.3	1.46	20	<0.05	340	<2	126.0	1.59	<10	5.1
W17114		0.52	24.2	0.66	4.7	0.08	<0.3	1.61	23	0.07	560	<2	166.0	1.93	<10	4.4
W17115		0.51	19.7	0.41	4.3	0.07	<0.3	1.49	13	<0.05	290	<2	121.5	1.71	<10	3.9
W17116		0.79	43.6	0.33	4.0	0.03	<0.3	1.21	260	<0.05	400	<2	62.8	1.36	<10	5.0
W17117		0.73	33.6	0.51	4.3	0.09	<0.3	1.43	144	<0.05	450	<2	74.6	1.39	<10	3.9
W17118		0.67	35.1	0.17	4.4	0.02	<0.3	0.36	35	<0.05	400	<2	66.7	0.53	<10	2.7
W17119		0.53	32.4	0.16	5.9	0.04	<0.3	0.37	135	<0.05	560	<2	62.8	0.72	<10	3.3
W17120		0.30	33.1	0.35	5.6	0.05	<0.3	1.28	8	<0.05	340	<2	42.6	2.05	<10	3.9
W17121		0.52	27.8	0.40	5.1	0.05	<0.3	1.51	209	<0.05	520	<2	64.0	1.40	<10	5.9
W17122		0.52	34.6	0.30	5.2	0.07	<0.3	0.61	250	<0.05	570	<2	52.8	0.69	<10	5.2
W17123		0.54	39.3	0.26	5.0	0.02	<0.3	0.73	110	<0.05	280	<2	77.8	1.11	<10	4.6
W17124		0.56	25.1	0.58	4.4	0.08	<0.3	2.69	116	<0.05	590	<2	62.5	2.37	<10	3.3
W17125		0.51	30.9	0.45	4.4	0.07	<0.3	1.97	35	0.05	630	<2	63.1	2.22	<10	4.0
W17126		0.44	27.3	0.27	5.5	0.03	<0.3	2.02	44	<0.05	480	<2	35.5	1.66	<10	5.5
W17126A		0.54	52.2	0.11	5.3	<0.01	<0.3	0.18	3390	<0.05	870	2	48.2	0.33	<10	10.4
W17127		0.66	43.2	0.39	5.9	0.05	<0.3	2.35	250	<0.05	470	<2	57.3	1.80	<10	3.7
W17128		0.71	37.9	0.29	4.8	0.04	<0.3	0.59	460	<0.05	890	<2	54.1	1.00	<10	3.1
W17129		0.57	37.0	0.29	4.2	0.04	<0.3	1.12	450	<0.05	300	<2	42.5	0.87	20	3.8
W17130		0.56	28.9	1.12	4.6	0.13	<0.3	5.20	198	<0.05	420	<2	49.5	5.45	<10	5.8
W17131		0.37	29.0	0.74	5.2	0.11	<0.3	2.68	28	<0.05	430	<2	62.4	3.13	<10	3.5
W17132		0.30	24.9	0.37	5.0	0.05	<0.3	1.63	8	<0.05	460	<2	65.6	1.44	<10	2.9
W17133		0.49	31.4	0.35	5.0	0.09	<0.3	1.05	144	<0.05	360	<2	30.0	1.24	<10	3.0
W17134		0.39	23.4	0.74	4.6	0.11	<0.3	1.85	18	<0.05	840	<2	76.4	2.04	<10	5.6
W17135		0.51	24.7	1.68	5.2	0.19	<0.3	5.47	19	0.07	1750	2	101.0	5.10	<10	7.5
W17136		1.01	54.0	0.26	4.5	0.06	<0.3	1.31	156	<0.05	760	<2	105.5	1.01	<10	3.0
W17137		0.57	28.6	0.69	4.4	0.04	<0.3	2.45	46	<0.05	310	<2	79.5	1.94	<10	4.9
W17138		0.44	21.9	0.74	4.4	0.09	<0.3	2.82	11	<0.05	360	<2	116.0	3.67	<10	3.4
W17139		0.61	27.4	1.03	5.6	0.13	<0.3	2.40	35	<0.05	1050	2	165.5	2.14	<10	6.3
W17140		0.55	24.2	0.54	5.1	0.04	<0.3	1.51	26	<0.05	610	<2	122.0	1.61	<10	6.1
W17141		0.51	29.3	0.42	4.8	0.04	<0.3	0.92	97	<0.05	370	<2	46.7	1.59	<10	9.1



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Sample Description	Method Analyte Units LOR	ME-MS89L Pr ppm 0.03	ME-MS89L Rb ppm 0.5	ME-MS89L Re ppm 0.01	ME-MS89L Sb ppm 0.3	ME-MS89L Se ppm 3	ME-MS89L Sm ppm 0.04	ME-MS89L Sn ppm 3	ME-MS89L Sr ppm 20	ME-MS89L Ta ppm 0.04	ME-MS89L Tb ppm 0.01	ME-MS89L Te ppm 0.5	ME-MS89L Th ppm 0.1	ME-MS89L Ti % 0.005	ME-MS89L Tl ppm 0.02	ME-MS89L Tm ppm 0.01
W17103		0.54	1670	<0.01	0.6	3	0.45	90	20	44.5	0.12	<0.5	0.5	0.008	7.84	0.06
W17104		0.32	1240	<0.01	<0.3	5	0.66	132	30	42.0	0.09	<0.5	0.7	0.009	4.93	0.04
W17105		10.85	148.5	<0.01	0.4	7	12.50	4	140	1.56	2.67	<0.5	14.3	0.503	0.73	1.87
W17106		9.51	145.0	<0.01	0.6	7	11.05	4	110	1.34	2.30	<0.5	12.9	0.591	0.66	1.53
W17107		0.48	2020	<0.01	0.5	5	0.75	140	20	25.8	0.17	<0.5	2.0	0.034	8.05	0.04
W17108		0.16	2710	<0.01	0.7	<3	0.29	35	50	11.05	0.05	<0.5	0.5	0.005	11.60	0.02
W17109		0.26	3380	<0.01	0.5	3	0.30	43	40	19.70	0.05	<0.5	0.3	0.009	16.80	0.03
W17110		0.34	669	<0.01	0.7	4	0.40	211	30	42.5	0.07	<0.5	0.7	0.016	2.61	0.03
W17111		0.33	671	<0.01	<0.3	3	0.38	60	20	33.0	0.06	<0.5	0.5	0.013	2.47	0.03
W17112		0.25	870	<0.01	0.6	<3	0.25	392	50	55.2	0.03	<0.5	0.5	0.005	4.63	0.03
W17113		0.40	958	<0.01	0.3	3	2.97	41	30	41.7	0.12	1.9	0.5	0.009	3.73	0.04
W17114		0.54	494	<0.01	0.6	4	0.59	52	30	64.3	0.07	<0.5	0.6	0.010	1.83	0.03
W17115		0.43	553	<0.01	0.5	3	0.42	52	50	45.9	0.10	<0.5	0.3	0.007	1.71	0.05
W17116		0.37	1990	<0.01	0.5	5	0.35	156	30	17.55	0.07	<0.5	0.9	0.040	7.59	0.02
W17117		0.36	1050	<0.01	0.4	<3	0.64	99	<20	36.8	0.09	<0.5	1.0	0.030	3.82	0.05
W17118		0.13	693	<0.01	0.4	4	0.12	95	<20	49.8	0.03	<0.5	0.7	0.012	2.48	0.01
W17119		0.18	1070	<0.01	0.3	4	0.14	97	30	48.7	0.05	<0.5	0.3	0.013	4.39	0.02
W17120		0.35	131.5	<0.01	0.3	<3	0.40	58	30	37.9	0.09	<0.5	0.4	<0.005	0.52	0.02
W17121		0.35	1395	<0.01	0.8	<3	0.33	340	30	35.8	0.08	<0.5	0.5	0.011	6.48	0.02
W17122		0.15	1450	<0.01	0.6	<3	0.25	137	30	37.1	0.03	1.2	0.3	0.019	6.47	0.02
W17123		0.19	1795	<0.01	0.4	<3	0.22	106	30	64.2	0.04	<0.5	0.6	0.020	8.07	0.02
W17124		0.60	944	<0.01	0.4	3	0.69	81	30	35.9	0.08	<0.5	0.9	0.012	4.33	0.03
W17125		0.56	852	<0.01	0.6	4	0.52	56	50	13.45	0.06	<0.5	0.5	0.014	3.94	0.03
W17126		0.42	1825	0.01	0.4	3	0.27	64	30	14.70	0.03	<0.5	0.5	0.009	8.96	0.04
W17126A		<0.03	3610	<0.01	0.4	3	0.11	381	20	52.6	0.02	0.8	3.5	<0.005	24.0	0.01
W17127		0.55	1205	<0.01	0.5	3	0.37	326	40	41.6	0.06	<0.5	0.7	0.016	4.59	0.02
W17128		0.19	1020	<0.01	0.8	3	0.36	119	20	21.4	0.02	<0.5	0.5	0.019	3.93	0.02
W17129		0.31	1765	<0.01	0.5	<3	0.30	124	20	20.2	0.05	<0.5	0.9	0.021	7.49	0.01
W17130		1.46	1660	<0.01	0.6	<3	1.33	121	140	39.6	0.14	<0.5	1.0	0.013	7.69	0.06
W17131		0.77	316	<0.01	0.3	3	0.62	80	30	49.1	0.11	<0.5	0.7	0.007	1.18	0.03
W17132		0.33	69.7	<0.01	0.3	5	0.30	526	30	67.2	0.04	<0.5	0.6	<0.005	0.28	0.04
W17133		0.26	430	<0.01	0.3	3	0.23	46	30	54.5	0.07	<0.5	0.3	0.011	1.78	0.07
W17134		0.48	478	<0.01	0.4	4	0.58	236	50	52.5	0.15	<0.5	0.9	0.006	2.10	0.05
W17135		1.05	447	<0.01	0.7	3	1.23	90	80	59.3	0.27	<0.5	1.1	0.007	2.28	0.08
W17136		0.16	1830	<0.01	<0.3	6	<0.04	213	20	39.3	0.04	<0.5	0.5	0.032	6.75	<0.01
W17137		0.42	610	<0.01	<0.3	4	0.73	100	30	26.9	0.08	<0.5	1.3	0.014	2.42	<0.01
W17138		0.64	183.5	<0.01	<0.3	3	0.65	54	40	43.7	0.10	<0.5	0.6	<0.005	0.62	0.04
W17139		0.53	243	0.03	0.4	5	0.63	44	50	77.0	0.27	1.1	1.4	0.006	0.82	0.02
W17140		0.27	1325	<0.01	<0.3	3	0.48	110	40	46.4	0.09	<0.5	1.0	0.006	4.98	<0.01
W17141		0.21	2210	<0.01	<0.3	<3	0.46	111	30	9.51	0.04	<0.5	0.9	0.016	9.84	<0.01



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Sample Description	Method Analyte Units LOR	ME-MS89L U ppm 0.2	ME-MS89L V ppm 1	ME-MS89L W ppm 0.3	ME-MS89L Y ppm 0.2	ME-MS89L Yb ppm 0.02	ME-MS89L Zn ppm 10	B-MS89L B ppm 8	PUL-QC Pass75um % 0.01
W17103		3.8	<1	2.1	3.5	0.27	30	47	
W17104		1.9	<1	2.6	3.5	0.26	30	88	
W17105		2.6	<1	1.5	106.5	11.25	150	31	
W17106		2.9	2	1.2	87.9	9.30	160	<8	
W17107		3.3	3	8.5	3.2	0.31	100	36	95.0
W17108		1.8	<1	0.6	1.8	0.18	20	255	
W17109		0.7	<1	1.6	1.5	0.10	20	253	
W17110		1.7	<1	4.8	4.0	0.25	40	134	
W17111		1.1	<1	4.0	1.6	0.19	50	434	
W17112		1.7	<1	2.5	1.6	0.17	30	115	
W17113		2.7	<1	4.3	3.2	0.23	20	45	
W17114		3.3	<1	6.4	3.1	0.27	30	216	
W17115		2.4	<1	5.2	3.1	0.26	20	49	
W17116		1.6	1	9.0	1.2	0.08	80	330	
W17117		3.9	<1	6.0	2.6	0.22	80	1050	
W17118		2.3	<1	5.2	0.6	0.10	30	114	
W17119		3.7	<1	3.4	1.1	0.08	40	83	
W17120		1.9	<1	1.9	1.3	0.14	10	90	
W17121		0.9	<1	4.9	2.2	0.17	30	66	
W17122		3.4	<1	5.3	1.9	0.14	50	<8	
W17123		3.8	<1	5.7	0.8	0.11	50	18	
W17124		1.1	<1	3.7	2.0	0.14	30	<8	
W17125		1.5	<1	10.5	1.7	0.14	30	<8	
W17126		1.2	<1	2.9	0.8	0.10	30	<8	
W17126A		5.0	<1	5.0	0.4	<0.02	60	<8	
W17127		3.9	<1	5.8	1.1	0.13	70	56	
W17128		3.7	<1	6.1	1.1	0.19	70	<8	
W17129		4.2	<1	5.8	0.9	0.11	60	<8	
W17130		1.3	<1	4.7	3.9	0.35	40	<8	
W17131		2.7	<1	3.6	3.4	0.22	20	<8	
W17132		1.9	<1	2.8	1.8	0.14	20	<8	
W17133		0.9	<1	9.9	3.4	0.29	40	304	
W17134		3.8	<1	2.9	3.6	0.20	20	<8	
W17135		12.1	3	4.2	9.6	0.48	30	56	
W17136		4.4	<1	7.9	2.9	0.09	60	219	
W17137		2.8	<1	4.2	3.5	0.14	20	56	
W17138		4.7	<1	3.7	4.3	0.32	20	31	
W17139		41.7	<1	4.8	5.5	0.33	30	146	
W17140		7.6	<1	3.5	3.6	0.22	20	26	
W17141		9.5	<1	4.5	1.8	0.13	30	47	



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-MS89L Ag ppm 5	ME-MS89L As ppm 4	ME-MS89L Ba ppm 2	ME-MS89L Be ppm 0.4	ME-MS89L Bi ppm 0.1	ME-MS89L Ca % 0.1	ME-MS89L Cd ppm 0.8	ME-MS89L Ce ppm 0.2	ME-MS89L Co ppm 0.5	ME-MS89L Cs ppm 0.1	ME-MS89L Cu ppm 20	ME-MS89L Dy ppm 0.03	ME-MS89L Er ppm 0.02	ME-MS89L Eu ppm 0.03
W17142		0.64	<5	<4	140	6.3	<0.1	0.2	<0.8	3.1	1.6	353	<20	0.28	0.12	0.03
W17143		0.97	<5	<4	79	13.6	0.1	0.5	<0.8	2.1	4.5	102.0	<20	0.44	0.13	0.07
W17144		1.15	<5	<4	50	19.1	0.2	0.4	<0.8	1.1	1.0	128.5	<20	0.17	0.04	<0.03
W17145		0.83	5	<4	29	75.7	0.2	0.1	0.9	0.7	1.0	354	<20	<0.03	<0.02	<0.03
W17146		0.64	<5	<4	66	125.5	7.2	0.4	<0.8	6.8	1.2	61.5	<20	0.57	0.27	0.11
W17147		0.71	<5	<4	5	127.0	0.1	0.1	0.9	0.9	0.7	32.5	<20	0.08	0.05	0.03
W17148		0.95	<5	<4	36	11.0	<0.1	0.1	<0.8	1.0	0.6	180.0	<20	0.06	0.02	<0.03
W17149		1.12	<5	<4	102	11.7	0.1	0.6	<0.8	8.2	1.3	281	<20	1.63	0.43	0.18
W17150		0.91	<5	<4	108	8.2	<0.1	0.2	1.1	1.8	0.7	93.4	<20	0.14	0.09	0.04
W17150A		<0.02	<5	<4	20	174.0	1.1	0.2	<0.8	1.0	1.7	184.5	20	0.46	0.04	<0.03
W17151		1.19	6	<4	622	123.0	0.1	0.6	1.2	0.9	1.9	47.4	20	0.19	0.09	<0.03
W17152		1.18	<5	<4	698	8.3	<0.1	3.8	0.9	75.3	17.6	140.0	<20	14.05	8.75	2.71
W17301		0.79	<5	<4	75	1.9	0.2	0.1	<0.8	1.1	1.0	268	<20	0.11	<0.02	<0.03
W17302		0.96	<5	<4	96	3.1	0.9	0.4	0.9	1.8	1.8	10.1	<20	0.38	0.16	0.04
W17303		0.99	<5	<4	32	2.2	1.0	0.1	<0.8	2.5	1.7	111.0	<20	0.22	0.03	<0.03
W17304		0.84	<5	10	13	5.4	0.8	0.2	<0.8	0.8	0.8	232	<20	0.23	0.05	<0.03
W17305		0.86	<5	<4	46	3.5	0.2	0.3	0.9	3.4	1.8	181.0	20	0.18	0.05	0.07
W17306		1.39	<5	<4	<2	1.5	<0.1	<0.1	<0.8	<0.2	<0.5	44.1	<20	<0.03	<0.02	<0.03
W17307		1.24	<5	5	123	4.3	0.8	0.6	1.7	4.4	2.6	52.3	<20	2.17	0.97	0.20
W17308		0.76	<5	<4	39	3.3	0.2	0.4	<0.8	2.3	1.3	167.0	<20	1.00	0.40	0.06
W17309		0.87	<5	<4	94	2.2	1.0	0.2	<0.8	3.6	0.7	99.1	<20	0.46	0.25	0.05
W17310		0.76	<5	<4	50	4.0	5.2	0.3	<0.8	1.1	0.8	93.6	<20	0.34	0.11	<0.03
W17311		1.10	<5	<4	32	2.5	0.2	0.2	<0.8	1.1	1.0	145.0	<20	0.08	0.05	<0.03
W17312		1.20	<5	<4	53	8.6	0.2	0.3	<0.8	3.4	1.1	254	<20	0.36	0.13	0.14
W17313		1.03	<5	<4	40	3.6	0.1	0.2	<0.8	2.4	1.2	189.0	<20	0.29	0.09	0.04
W17314		0.72	<5	<4	61	3.4	0.8	0.4	1.7	6.4	2.9	21.3	<20	1.53	0.47	<0.03
W17315		1.04	6	<4	26	2.1	5.8	0.1	<0.8	1.7	1.2	31.2	<20	0.30	0.19	0.04
W17316		0.82	6	23	128	3.9	1.2	0.4	<0.8	1.9	6.8	9.9	20	0.41	0.17	0.18
W17317		1.23	7	<4	72	2.7	0.7	0.1	1.0	2.9	1.5	63.3	<20	0.25	0.16	0.06
W17318		0.84	7	<4	158	2.4	0.1	0.2	<0.8	8.8	1.0	77.2	<20	0.32	0.25	0.22
W17319		1.15	8	4	74	6.6	0.6	0.3	0.9	8.8	1.4	32.9	<20	1.08	0.51	0.27
W17320		0.84	9	<4	99	28.4	0.2	0.2	0.9	4.4	1.7	40.7	<20	0.46	0.29	0.16
W17321		0.80	8	5	44	4.2	2.2	0.5	1.1	2.2	2.8	1.7	<20	0.29	0.18	0.09
W17322		0.76	8	<4	267	6.9	0.3	1.0	1.1	2.5	3.3	5.3	<20	0.43	0.28	0.22
W17322A		<0.02	7	<4	46	174.0	1.9	0.2	<0.8	0.2	0.9	138.5	<20	0.09	<0.02	0.04
W17323		1.08	9	<4	21	1.5	1.6	0.2	1.0	0.9	1.1	1.6	<20	0.11	0.08	0.06
W17324		0.84	7	<4	13	<0.4	0.1	0.1	0.8	1.5	1.1	4.1	<20	0.04	0.02	0.04
W17325		0.81	9	4	293	2.5	0.3	5.1	1.3	74.1	17.0	283	<20	12.40	8.00	2.32
W17326		0.65	9	<4	160	6.6	0.1	0.6	<0.8	2.7	1.5	9.6	<20	0.28	0.15	0.10
W17327		1.09	11	<4	25	88.2	0.2	0.3	<0.8	1.0	0.8	86.9	<20	0.22	0.08	0.09



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Sample Description	Method Analyte Units LOR	ME-MS89L Fe %	ME-MS89L Ga ppm	ME-MS89L Gd ppm	ME-MS89L Ge ppm	ME-MS89L Ho ppm	ME-MS89L In ppm	ME-MS89L La ppm	ME-MS89L Li ppm	ME-MS89L Lu ppm	ME-MS89L Mn ppm	ME-MS89L Mo ppm	ME-MS89L Nb ppm	ME-MS89L Nd ppm	ME-MS89L Ni ppm	ME-MS89L Pb ppm
		0.05	0.5	0.03	0.5	0.01	0.3	0.08	2	0.05	10	2	0.8	0.07	10	0.5
W17142		0.61	24.8	0.41	5.3	0.04	<0.3	1.45	124	<0.05	460	<2	39.6	1.61	<10	11.1
W17143		0.77	37.8	0.26	4.6	0.02	<0.3	1.40	174	<0.05	710	<2	62.4	1.46	<10	5.0
W17144		0.52	37.0	0.20	4.3	0.01	<0.3	0.56	30	<0.05	260	<2	69.3	0.66	<10	3.8
W17145		0.76	50.8	0.05	6.4	<0.01	<0.3	0.29	440	<0.05	390	2	71.6	0.12	<10	4.4
W17146		0.44	44.8	0.72	9.8	0.06	<0.3	3.33	14	<0.05	320	<2	83.1	3.17	<10	6.0
W17147		0.68	<0.5	<0.03	14.5	0.01	<0.3	0.69	9	<0.05	110	2	1.4	0.64	<10	<0.5
W17148		0.72	47.9	0.08	6.5	<0.01	<0.3	0.53	79	<0.05	380	<2	82.5	0.58	<10	3.8
W17149		0.86	58.3	1.76	4.8	0.17	<0.3	4.00	196	<0.05	1520	<2	91.2	4.82	<10	5.0
W17150		0.48	30.8	0.19	5.4	0.03	<0.3	0.89	29	<0.05	590	<2	24.8	1.04	<10	7.3
W17150A		1.18	62.5	0.71	5.5	0.01	<0.3	0.24	8340	<0.05	1300	3	61.7	0.31	20	10.1
W17151		0.59	32.3	0.15	5.2	<0.01	<0.3	0.35	52	<0.05	230	2	82.7	0.52	90	3.6
W17152		10.55	25.4	12.45	2.0	2.98	<0.3	25.0	121	1.20	1690	2	14.4	38.9	<10	6.9
W17301		0.54	20.5	0.16	3.9	<0.01	<0.3	0.68	70	<0.05	130	<2	12.5	0.80	<10	5.8
W17302		0.64	26.1	0.44	4.0	0.07	<0.3	1.10	6	<0.05	290	<2	76.3	1.42	<10	6.7
W17303		0.81	21.0	0.21	3.7	0.02	<0.3	0.99	70	<0.05	640	<2	72.0	0.77	<10	3.6
W17304		1.08	26.9	0.32	4.1	0.03	<0.3	0.42	370	<0.05	290	<2	128.0	0.28	<10	3.3
W17305		0.91	25.8	0.24	4.3	0.01	<0.3	2.00	175	<0.05	250	<2	80.4	2.48	20	4.2
W17306		<0.05	27.2	<0.03	3.9	<0.01	<0.3	<0.08	29	<0.05	10	2	16.3	<0.07	<10	<0.5
W17307		1.29	36.1	2.37	7.1	0.30	<0.3	5.15	60	0.07	4370	<2	93.4	5.01	<10	7.0
W17308		0.95	33.8	0.82	6.0	0.13	<0.3	2.49	101	<0.05	640	2	75.2	2.11	<10	7.5
W17309		0.30	27.3	0.41	5.7	0.04	<0.3	2.20	12	<0.05	150	<2	55.4	1.99	<10	9.3
W17310		0.89	34.5	0.32	5.0	0.02	<0.3	0.41	58	<0.05	250	<2	136.0	0.66	<10	2.8
W17311		0.99	25.1	0.23	4.1	0.01	<0.3	0.69	198	<0.05	280	<2	103.0	0.85	<10	3.1
W17312		0.86	28.9	0.44	4.4	0.06	<0.3	2.60	240	<0.05	320	<2	99.7	2.09	<10	3.3
W17313		0.93	25.7	0.35	4.2	0.04	<0.3	1.26	300	<0.05	280	<2	107.0	1.64	<10	4.6
W17314		1.44	29.4	1.68	7.1	0.21	<0.3	3.06	38	0.05	5240	<2	88.8	3.42	<10	6.6
W17315		0.70	25.1	0.44	4.9	0.04	<0.3	1.18	26	<0.05	1170	<2	163.0	1.05	10	5.8
W17316		0.69	26.2	0.34	4.4	0.03	<0.3	1.32	5	<0.05	310	<2	24.5	1.53	10	13.4
W17317		0.64	22.2	0.47	5.1	0.05	<0.3	2.55	12	<0.05	420	<2	38.3	2.12	10	10.2
W17318		0.50	21.7	0.72	4.7	0.06	<0.3	5.12	21	<0.05	200	<2	32.2	4.57	10	14.1
W17319		0.86	25.0	1.07	5.1	0.15	<0.3	8.00	19	<0.05	900	<2	59.0	7.12	10	6.0
W17320		1.04	26.4	0.57	4.5	0.08	<0.3	3.33	28	<0.05	1290	<2	66.2	2.71	10	10.7
W17321		0.88	2.0	0.29	<0.5	0.05	<0.3	1.06	8	<0.05	260	<2	1.2	1.29	20	7.7
W17322		1.25	5.3	0.50	0.8	0.09	<0.3	1.14	10	0.07	260	2	1.8	1.30	20	7.8
W17322A		0.57	50.2	0.05	5.3	<0.01	<0.3	0.18	3300	<0.05	880	2	44.0	0.08	10	11.1
W17323		0.90	<0.5	0.12	<0.5	0.02	<0.3	0.32	10	<0.05	220	<2	1.0	0.36	10	17.9
W17324		0.77	<0.5	0.18	<0.5	<0.01	<0.3	0.73	7	<0.05	250	<2	0.8	0.77	10	1.9
W17325		9.07	21.9	8.76	1.7	2.58	<0.3	16.15	97	1.10	1690	<2	12.6	23.3	20	15.2
W17326		0.72	36.7	0.36	8.6	0.06	<0.3	2.19	14	<0.05	960	<2	91.8	1.94	10	8.0
W17327		0.37	32.8	0.19	7.2	0.03	<0.3	0.85	110	<0.05	290	<2	89.9	0.67	20	5.1

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Sample Description	Method Analyte Units LOR	ME-MS89L Pr ppm 0.03	ME-MS89L Rb ppm 0.5	ME-MS89L Re ppm 0.01	ME-MS89L Sb ppm 0.3	ME-MS89L Se ppm 3	ME-MS89L Sm ppm 0.04	ME-MS89L Sn ppm 3	ME-MS89L Sr ppm 20	ME-MS89L Ta ppm 0.04	ME-MS89L Tb ppm 0.01	ME-MS89L Te ppm 0.5	ME-MS89L Th ppm 0.1	ME-MS89L Ti % 0.005	ME-MS89L Tl ppm 0.02	ME-MS89L Tm ppm 0.01
W17142		0.23	3090	<0.01	<0.3	3	0.31	88	40	20.8	0.03	<0.5	0.9	0.012	14.90	<0.01
W17143		0.30	921	<0.01	<0.3	4	0.18	116	50	28.0	0.04	<0.5	0.7	0.016	3.61	<0.01
W17144		0.09	878	<0.01	<0.3	3	<0.04	323	<20	10.35	0.02	<0.5	0.7	0.016	3.02	<0.01
W17145		<0.03	2260	<0.01	<0.3	3	<0.04	203	<20	53.6	<0.01	<0.5	0.4	0.015	8.99	<0.01
W17146		0.85	512	<0.01	<0.3	3	0.53	395	20	110.5	0.09	<0.5	1.8	0.006	1.91	<0.01
W17147		0.08	39.8	<0.01	<0.3	4	0.11	4	<20	0.62	<0.01	<0.5	0.1	<0.005	0.08	<0.01
W17148		0.13	1290	<0.01	<0.3	5	<0.04	138	<20	63.0	<0.01	<0.5	0.4	0.020	5.32	<0.01
W17149		0.96	2460	<0.01	<0.3	5	1.17	794	60	65.0	0.35	<0.5	0.9	0.030	9.79	0.03
W17150		0.23	792	<0.01	<0.3	<3	0.08	44	30	18.05	0.03	<0.5	0.4	0.010	3.66	<0.01
W17150A		0.08	5380	<0.01	<0.3	7	0.55	315	20	138.5	0.12	<0.5	4.1	<0.005	34.3	<0.01
W17151		0.05	629	<0.01	<0.3	5	0.06	91	40	25.5	<0.01	<0.5	0.5	0.015	2.36	<0.01
W17152		7.41	160.5	<0.01	<0.3	13	10.90	133	170	2.24	2.12	<0.5	11.4	0.971	0.89	1.27
W17301		0.11	2650	<0.01	<0.3	3	0.09	50	<20	5.17	0.01	<0.5	0.4	0.011	13.05	<0.01
W17302		0.28	180.5	<0.01	<0.3	5	0.12	44	20	8.33	0.05	<0.5	0.5	0.006	0.64	<0.01
W17303		0.22	1395	<0.01	<0.3	6	<0.04	82	<20	6.48	0.02	<0.5	0.3	0.010	5.99	<0.01
W17304		0.06	1005	<0.01	<0.3	7	<0.04	104	<20	19.05	0.02	<0.5	0.4	0.027	4.01	<0.01
W17305		0.34	1455	<0.01	<0.3	6	0.40	86	20	7.07	0.03	<0.5	0.9	0.016	6.47	<0.01
W17306		<0.03	449	<0.01	<0.3	<3	<0.04	54	<20	5.63	<0.01	<0.5	<0.1	<0.005	0.19	<0.01
W17307		1.00	335	<0.01	<0.3	8	1.44	124	30	19.30	0.38	<0.5	0.6	0.007	1.11	0.09
W17308		0.46	1565	<0.01	<0.3	6	0.37	128	20	21.2	0.16	<0.5	0.5	0.007	6.29	0.03
W17309		0.49	1910	<0.01	<0.3	6	0.31	513	20	42.9	0.05	<0.5	0.3	<0.005	7.91	<0.01
W17310		0.11	685	<0.01	<0.3	6	0.07	192	20	25.5	0.04	<0.5	0.5	0.032	2.00	<0.01
W17311		0.16	1090	<0.01	<0.3	5	<0.04	68	<20	12.00	0.01	<0.5	0.4	0.021	4.57	<0.01
W17312		0.47	1470	<0.01	<0.3	7	0.25	180	<20	10.10	0.06	<0.5	0.6	0.023	6.39	<0.01
W17313		0.30	1125	<0.01	<0.3	6	0.24	79	<20	16.50	0.04	<0.5	0.5	0.024	4.46	<0.01
W17314		0.80	134.5	<0.01	<0.3	9	1.17	20	<20	15.10	0.33	<0.5	0.8	<0.005	0.45	0.03
W17315		0.30	305	<0.01	<0.3	5	0.24	90	<20	24.2	0.06	0.6	1.4	0.007	1.18	0.02
W17316		0.30	379	<0.01	0.3	8	0.33	22	40	7.44	0.07	<0.5	0.2	0.011	1.25	0.02
W17317		0.65	1570	<0.01	<0.3	5	0.34	36	<20	8.58	0.08	<0.5	0.3	0.005	6.94	0.02
W17318		1.03	1685	<0.01	<0.3	4	0.59	37	20	8.12	0.10	<0.5	0.4	0.010	7.08	0.02
W17319		1.95	570	<0.01	<0.3	3	1.30	48	20	22.3	0.17	0.8	1.0	0.016	2.00	0.04
W17320		0.69	1060	<0.01	<0.3	3	0.44	56	30	37.0	0.09	<0.5	1.2	0.022	4.19	0.03
W17321		0.22	16.1	<0.01	0.3	6	0.13	4	50	0.18	0.05	0.7	0.1	0.005	0.03	0.02
W17322		0.27	81.4	<0.01	0.4	8	0.43	17	70	0.46	0.04	<0.5	0.1	0.013	0.26	0.06
W17322A		0.03	3570	<0.01	<0.3	<3	<0.04	358	20	336	0.01	<0.5	3.7	<0.005	24.4	<0.01
W17323		0.13	7.8	<0.01	<0.3	6	0.10	<3	<20	1.67	<0.01	0.6	0.1	<0.005	0.05	0.01
W17324		0.19	5.4	<0.01	<0.3	3	0.20	<3	<20	1.30	0.01	0.7	0.1	<0.005	<0.02	<0.01
W17325		5.31	137.0	<0.01	1.8	3	6.67	11	170	0.76	1.72	<0.5	9.9	0.674	0.76	1.25
W17326		0.52	27.5	<0.01	0.3	5	0.48	546	60	109.5	0.05	<0.5	0.3	<0.005	0.10	0.01
W17327		0.16	244	<0.01	0.3	<3	0.20	8870	<20	178.0	0.04	0.5	0.4	0.007	0.89	0.01



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Sample Description	Method Analyte Units LOR	ME-MS89L U ppm 0.2	ME-MS89L V ppm 1	ME-MS89L W ppm 0.3	ME-MS89L Y ppm 0.2	ME-MS89L Yb ppm 0.02	ME-MS89L Zn ppm 10	B-MS89L B ppm 8	PUL-QC Pass75um % 0.01
W17142		5.3	<1	3.6	1.9	0.11	50	727	
W17143		6.8	<1	7.2	2.2	0.04	40	85	
W17144		9.6	<1	4.9	1.4	0.17	50	70	
W17145		1.7	<1	5.6	0.3	<0.02	90	132	
W17146		4.2	<1	2.2	3.3	0.13	20	75	99.0
W17147		0.3	<1	0.3	0.6	<0.02	<10	360	
W17148		2.7	<1	4.9	0.6	<0.02	60	43	
W17149		2.7	<1	8.8	7.1	0.28	110	48	
W17150		2.1	<1	2.0	1.3	0.09	40	141	
W17150A		2.9	<1	7.0	2.2	0.02	100	927	
W17151		3.4	<1	2.8	1.0	0.09	40	76	
W17152		2.2	9	8.5	83.6	8.05	140	27	
W17301		0.2	<1	1.9	0.8	0.03	20	18	
W17302		1.7	<1	2.8	2.7	0.19	40	69	
W17303		1.7	<1	5.2	1.0	0.05	50	618	
W17304		1.8	<1	9.5	1.4	0.03	60	180	
W17305		1.0	<1	6.7	0.9	0.03	30	103	
W17306		3.7	<1	6.6	<0.2	<0.02	10	579	
W17307		15.5	<1	6.1	14.0	0.61	50	87	
W17308		3.1	<1	7.8	6.6	0.32	90	427	
W17309		2.0	<1	2.2	2.6	0.18	10	372	
W17310		3.0	<1	9.2	1.5	0.04	90	1340	
W17311		0.8	<1	7.4	1.5	<0.02	60	588	
W17312		0.9	<1	10.1	2.1	0.11	80	394	
W17313		0.6	<1	8.4	1.8	0.07	70	386	
W17314		3.6	<1	4.6	8.5	0.42	30	694	
W17315		2.3	2	8.3	2.1	0.18	30	229	
W17316		2.3	6	5.6	2.4	0.22	40	<8	
W17317		0.8	2	2.1	1.8	0.13	20	192	
W17318		0.9	3	3.0	1.9	0.14	10	29	
W17319		1.5	3	4.7	4.8	0.41	30	250	
W17320		2.1	3	4.7	3.6	0.27	40	25	
W17321		0.3	4	2.3	2.3	0.19	10	<8	
W17322		0.4	9	689	3.3	0.41	20	<8	
W17322A		5.3	2	4.9	0.5	<0.02	60	34	
W17323		0.3	3	1.0	0.6	0.05	20	<8	
W17324		0.3	2	0.8	0.3	0.03	10	<8	
W17325		2.5	16	18.6	74.8	8.11	140	<8	
W17326		3.8	3	2.4	2.4	0.09	40	32	
W17327		4.2	2	1.7	1.4	0.11	60	51	



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-MS89L Ag ppm 5	ME-MS89L As ppm 4	ME-MS89L Ba ppm 2	ME-MS89L Be ppm 0.4	ME-MS89L Bi ppm 0.1	ME-MS89L Ca % 0.1	ME-MS89L Cd ppm 0.8	ME-MS89L Ce ppm 0.2	ME-MS89L Co ppm 0.5	ME-MS89L Cs ppm 0.1	ME-MS89L Cu ppm 20	ME-MS89L Dy ppm 0.03	ME-MS89L Er ppm 0.02	ME-MS89L Eu ppm 0.03
W17328		1.62	8	<4	62	112.5	0.2	0.8	0.8	0.8	1.0	1265	<20	0.16	0.11	0.04
W17329		0.80	7	<4	185	460	0.2	0.5	<0.8	13.1	0.9	469	<20	0.36	0.19	0.23
W17330		0.89	8	<4	52	21.1	0.2	0.4	<0.8	0.9	1.3	92.0	<20	0.17	0.12	0.05
W17331		1.11	8	4	25	20.7	0.3	0.3	<0.8	0.5	0.7	136.0	<20	0.11	0.06	0.04
W17332		0.53	7	<4	23	6.1	<0.1	0.4	<0.8	0.7	0.7	18.0	<20	<0.03	0.04	<0.03
W17333		0.71	9	<4	49	52.5	0.2	0.2	<0.8	0.2	0.5	17.5	<20	<0.03	<0.02	<0.03
W17334		0.62	9	<4	9	12.7	0.2	0.3	1.3	1.6	0.8	3.2	<20	0.09	0.10	0.03
W17335		1.12	9	7	56	320	0.8	0.2	<0.8	2.5	1.2	112.0	20	0.35	0.15	0.05
W17336		1.14	8	<4	109	12.8	0.8	0.6	<0.8	3.8	1.8	22.1	<20	0.51	0.23	0.14
W17337		0.98	9	<4	88	76.8	0.4	0.3	<0.8	0.8	0.8	56.6	<20	0.12	0.06	0.08
W17338		0.74	6	<4	266	10.7	<0.1	0.5	<0.8	8.1	7.8	7.3	<20	0.35	0.24	0.15
W17339		0.78	8	<4	46	5.3	0.1	0.4	<0.8	0.9	0.5	29.5	<20	0.16	0.12	0.09
W17340		1.01	6	<4	19	220	0.2	0.2	<0.8	4.2	2.3	180.5	<20	0.65	0.48	0.12
W17341		1.07	6	<4	47	28.2	0.1	0.2	<0.8	2.0	1.5	303	<20	0.14	0.06	0.03
W17342		1.08	6	<4	195	145.0	0.2	0.4	<0.8	4.8	4.7	72.6	<20	0.71	0.37	0.18
W17343		1.04	6	<4	25	5.0	0.2	0.2	<0.8	2.0	1.0	32.7	<20	0.22	0.16	0.08
W17344		0.99	8	<4	48	21.2	<0.1	0.2	<0.8	2.1	1.4	13.5	<20	0.22	0.08	0.10
W17345		1.09	5	<4	49	109.0	0.3	0.5	<0.8	4.3	1.7	64.8	<20	0.62	0.36	0.24
W17346		0.82	6	<4	54	420	0.1	0.1	<0.8	0.7	1.1	86.7	<20	0.12	0.08	0.04
W17346A		<0.02	<5	4	19	162.5	1.0	0.3	<0.8	0.9	1.6	178.0	<20	0.47	<0.02	0.04
W17347		0.80	<5	<4	108	18.7	0.1	0.4	<0.8	0.4	0.6	6.2	<20	0.15	0.12	0.09
W17348		1.00	<5	5	43	27.6	<0.1	0.7	2.4	2.8	1.3	33.7	<20	0.56	0.27	0.14
W17349		1.14	<5	<4	32	230	<0.1	0.3	1.1	0.4	0.9	300	<20	0.06	<0.02	0.03
W17350		0.86	<5	4	22	114.0	0.1	0.6	1.2	0.2	0.6	85.2	<20	<0.03	<0.02	<0.03
W17351		1.01	<5	<4	242	4.7	<0.1	0.2	0.8	3.8	2.2	21.7	<20	0.76	0.37	0.14
W17352		0.90	<5	<4	37	105.5	<0.1	0.3	3.5	0.3	0.9	395	<20	0.03	0.05	0.03
W17353		0.59	<5	5	909	3.1	<0.1	6.1	<0.8	56.4	28.7	38.1	<20	15.20	9.33	2.47
W17354		0.56	<5	<4	13	<0.4	<0.1	0.1	<0.8	1.7	0.9	2.7	<20	0.13	<0.02	0.04
W17355		0.69	<5	<4	75	22.4	<0.1	0.7	0.9	0.5	0.6	105.0	<20	0.05	0.04	0.13
W17356		0.97	<5	<4	68	49.1	0.1	0.3	<0.8	1.5	1.0	241	<20	0.12	<0.02	0.04
W17357		0.91	<5	<4	83	136.0	<0.1	0.2	3.5	2.0	2.2	39.1	<20	0.28	<0.02	0.05
W17358		0.87	<5	<4	71	9.5	<0.1	0.3	<0.8	2.1	1.8	13.5	<20	0.22	0.10	0.07
W17359		0.90	<5	<4	319	39.9	0.3	0.5	<0.8	0.8	1.0	23.8	<20	0.20	0.13	0.06
W17360		0.85	<5	<4	36	210	<0.1	0.6	1.5	0.9	1.1	179.5	<20	0.22	0.02	0.03
BO01		0.77	<5	<4	392	102.0	0.1	0.5	<0.8	2.9	0.9	94.1	<20	0.29	0.08	0.20
BO02		0.78	<5	<4	176	202	<0.1	0.4	2.8	5.7	2.9	224	<20	0.99	0.23	0.11
BO03		0.84	<5	<4	52	126.5	1.0	0.6	<0.8	3.9	1.5	31.3	20	0.51	0.19	0.24
BO04		0.65	<5	5	1320	3.6	0.3	0.4	<0.8	85.5	11.4	27.6	<20	5.00	2.74	0.91
BO05		0.97	<5	<4	633	2.9	0.1	0.1	<0.8	53.6	8.3	26.5	40	2.92	1.86	0.53
BO06		1.14	<5	4	1210	2.4	0.2	0.9	<0.8	75.5	8.9	9.9	<20	4.64	3.09	0.70



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Sample Description	Method Analyte Units LOR	ME-MS89L Fe %	ME-MS89L Ga ppm	ME-MS89L Gd ppm	ME-MS89L Ge ppm	ME-MS89L Ho ppm	ME-MS89L In ppm	ME-MS89L La ppm	ME-MS89L Li ppm	ME-MS89L Lu ppm	ME-MS89L Mn ppm	ME-MS89L Mo ppm	ME-MS89L Nb ppm	ME-MS89L Nd ppm	ME-MS89L Ni ppm	ME-MS89L Pb ppm
		0.05	0.5	0.03	0.5	0.01	0.3	0.08	2	0.05	10	2	0.8	0.07	10	0.5
W17328		0.96	95.2	0.12	7.3	0.01	<0.3	0.46	119	<0.05	480	<2	101.5	0.33	10	6.0
W17329		0.63	20.6	0.40	4.6	0.07	<0.3	7.65	44	<0.05	200	<2	19.3	8.66	10	17.4
W17330		0.42	36.4	0.18	7.1	0.02	<0.3	0.65	155	<0.05	830	<2	94.2	0.58	10	5.6
W17331		0.22	44.7	0.08	8.5	<0.01	<0.3	0.38	10	<0.05	220	<2	121.0	0.38	10	8.9
W17332		0.62	39.4	0.06	7.7	<0.01	<0.3	0.38	47	<0.05	1170	<2	89.8	0.43	10	5.5
W17333		0.31	37.5	0.04	7.3	<0.01	0.3	0.16	5	<0.05	70	<2	90.5	0.09	10	7.8
W17334		0.27	36.7	0.20	6.1	<0.01	<0.3	0.60	6	<0.05	160	<2	19.2	0.56	20	4.9
W17335		0.36	35.4	0.39	7.6	0.04	<0.3	3.98	22	<0.05	450	<2	60.4	2.11	10	20.6
W17336		0.28	35.9	0.38	6.1	0.06	<0.3	3.69	20	<0.05	160	2	59.6	1.37	20	11.1
W17337		0.41	32.8	0.19	6.2	0.04	<0.3	1.63	4	<0.05	190	<2	22.5	1.45	20	11.8
W17338		0.34	38.9	0.55	7.7	0.09	<0.3	4.94	39	<0.05	720	<2	97.6	3.70	20	4.9
W17339		0.34	37.5	0.34	7.9	0.06	<0.3	1.39	18	<0.05	570	<2	60.8	1.38	10	7.5
W17340		0.42	47.7	0.90	8.4	0.13	<0.3	2.49	50	0.06	210	<2	78.6	2.58	330	6.2
W17341		0.52	45.6	0.23	8.4	0.03	<0.3	0.89	530	<0.05	580	<2	76.9	0.86	10	4.8
W17342		0.36	38.9	0.76	9.0	0.16	<0.3	5.01	20	<0.05	740	20	35.5	4.02	10	8.4
W17343		0.31	40.6	0.36	9.6	0.04	<0.3	2.25	149	<0.05	140	<2	70.0	1.25	10	6.0
W17344		0.38	39.2	0.21	7.6	0.01	<0.3	1.00	7	<0.05	150	<2	74.7	1.18	10	4.0
W17345		0.33	40.8	0.72	7.6	0.09	<0.3	5.61	29	0.06	360	<2	80.5	3.25	10	10.4
W17346		0.93	16.4	0.12	6.3	<0.01	<0.3	0.42	46	<0.05	140	<2	37.6	0.46	10	4.0
W17346A		1.09	64.1	0.89	7.6	0.06	<0.3	0.30	8080	<0.05	1300	2	62.6	0.29	30	10.4
W17347		0.25	44.5	0.11	8.6	0.01	<0.3	0.64	5	<0.05	60	<2	25.1	0.36	10	5.3
W17348		0.34	37.9	0.76	9.8	0.16	<0.3	5.98	14	<0.05	390	<2	88.0	3.30	10	6.0
W17349		0.38	36.9	0.12	8.3	0.04	<0.3	0.85	28	<0.05	340	<2	53.0	0.51	10	6.6
W17350		0.56	41.7	<0.03	8.5	0.01	<0.3	0.19	15	<0.05	690	<2	73.7	0.21	20	6.1
W17351		0.58	41.0	1.11	10.2	0.20	<0.3	7.50	10	<0.05	650	<2	82.1	4.55	20	4.4
W17352		0.38	68.4	0.03	8.9	<0.01	<0.3	0.23	44	<0.05	340	<2	159.5	0.18	10	6.3
W17353		10.40	20.4	12.70	3.7	2.87	0.6	14.85	39	1.38	1870	<2	14.5	25.4	10	10.9
W17354		0.66	1.2	0.15	1.9	<0.01	<0.3	0.84	3	<0.05	140	<2	1.1	0.63	10	1.5
W17355		0.29	49.3	0.13	11.5	<0.01	<0.3	0.56	24	<0.05	270	<2	256	0.49	10	8.3
W17356		0.40	35.8	0.23	14.7	0.01	0.4	0.84	14	<0.05	160	<2	19.9	0.82	10	13.6
W17357		0.23	44.3	0.36	12.0	0.06	<0.3	0.96	14	<0.05	120	<2	69.5	1.43	10	8.5
W17358		0.19	37.3	0.28	8.6	0.04	<0.3	0.77	<2	<0.05	190	<2	30.3	1.02	10	6.7
W17359		0.30	27.8	0.15	6.7	0.04	0.4	0.66	<2	<0.05	140	<2	34.5	0.48	10	14.3
W17360		0.31	43.7	0.12	7.4	0.06	<0.3	1.08	30	<0.05	390	<2	52.8	0.69	10	5.0
B001		0.58	31.4	0.53	5.9	0.07	<0.3	3.24	27	<0.05	330	<2	63.4	2.03	10	19.0
B002		0.41	30.3	0.78	6.8	0.12	<0.3	3.64	45	<0.05	480	<2	66.2	2.65	10	19.3
B003		0.42	31.4	0.52	7.6	0.08	<0.3	3.75	27	<0.05	320	<2	64.9	2.88	20	6.2
B004		3.11	20.3	4.99	1.7	0.90	0.5	28.9	39	0.29	390	<2	12.9	25.2	40	17.8
B005		2.95	19.4	3.06	1.5	0.49	0.4	24.8	35	0.25	240	<2	11.9	19.60	20	14.8
B006		2.62	14.3	5.13	1.5	0.89	0.4	35.9	26	0.39	330	<2	9.9	29.3	30	27.7



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Sample Description	Method Analyte Units LOR	ME-MS89L Pr ppm 0.03	ME-MS89L Rb ppm 0.5	ME-MS89L Re ppm 0.01	ME-MS89L Sb ppm 0.3	ME-MS89L Se ppm 3	ME-MS89L Sm ppm 0.04	ME-MS89L Sn ppm 3	ME-MS89L Sr ppm 20	ME-MS89L Ta ppm 0.04	ME-MS89L Tb ppm 0.01	ME-MS89L Te ppm 0.5	ME-MS89L Th ppm 0.1	ME-MS89L Ti % 0.005	ME-MS89L Tl ppm 0.02	ME-MS89L Tm ppm 0.01
W17328		0.09	4860	<0.01	<0.3	6	0.07	160	40	182.0	0.01	0.6	1.3	0.051	18.00	0.01
W17329		1.16	2440	<0.01	<0.3	5	0.54	3800	60	32.0	0.06	0.7	2.6	0.011	12.60	0.03
W17330		0.15	477	<0.01	0.4	<3	0.12	8920	30	209	0.04	<0.5	0.3	0.007	2.27	<0.01
W17331		0.04	628	<0.01	0.4	<3	0.09	6630	30	317	0.02	<0.5	0.5	0.010	2.96	0.01
W17332		0.08	84.6	<0.01	0.4	<3	<0.04	4220	20	212	<0.01	<0.5	0.3	0.007	0.42	<0.01
W17333		<0.03	67.7	<0.01	<0.3	<3	<0.04	481	20	146.5	0.01	<0.5	1.2	0.009	0.32	<0.01
W17334		0.15	7.7	<0.01	0.3	<3	0.13	35	20	45.6	0.02	<0.5	0.3	<0.005	0.02	<0.01
W17335		0.58	756	<0.01	<0.3	<3	0.33	1190	40	212	0.04	<0.5	1.1	0.007	3.39	0.02
W17336		0.41	217	<0.01	<0.3	<3	0.49	4830	60	102.5	0.07	<0.5	0.5	<0.005	0.80	0.04
W17337		0.33	518	<0.01	<0.3	<3	0.22	317	30	89.8	0.05	0.8	0.4	0.007	1.95	0.01
W17338		0.60	47.2	<0.01	<0.3	<3	0.34	2660	40	157.0	0.08	<0.5	1.5	0.005	0.21	0.04
W17339		0.34	102.0	<0.01	<0.3	<3	0.24	2650	20	94.8	0.04	<0.5	0.7	<0.005	0.42	0.02
W17340		0.52	558	0.01	<0.3	<3	0.51	5060	<20	199.5	0.13	<0.5	1.2	0.015	2.05	0.07
W17341		0.22	884	<0.01	<0.3	<3	0.30	1330	40	148.0	0.03	<0.5	0.5	0.011	3.31	0.01
W17342		0.75	326	<0.01	0.3	4	0.42	1130	30	133.5	0.08	<0.5	1.4	0.007	1.47	0.06
W17343		0.36	227	<0.01	<0.3	5	0.25	2220	30	206	0.04	<0.5	0.3	<0.005	0.91	0.01
W17344		0.20	72.3	<0.01	<0.3	<3	0.30	1670	30	137.0	0.03	<0.5	0.6	<0.005	0.30	0.01
W17345		0.84	284	<0.01	<0.3	<3	0.69	200	30	203	0.09	<0.5	1.3	0.010	1.43	0.05
W17346		0.12	112.5	<0.01	0.3	4	<0.04	79	20	102.5	0.01	<0.5	1.2	0.013	0.41	0.01
W17346A		0.11	4880	<0.01	0.3	<3	0.79	305	20	137.0	0.16	0.6	4.2	<0.005	39.0	<0.01
W17347		0.11	60.4	<0.01	<0.3	<3	0.11	15	40	115.5	0.01	0.9	0.5	<0.005	0.23	0.02
W17348		0.90	143.0	<0.01	<0.3	4	0.54	5720	70	169.0	0.11	0.8	0.6	0.010	0.77	0.07
W17349		0.15	1260	<0.01	<0.3	<3	<0.04	1340	20	97.9	0.01	<0.5	0.7	0.015	6.33	<0.01
W17350		0.05	260	<0.01	0.3	<3	<0.04	1520	40	170.0	<0.01	<0.5	0.5	0.009	1.34	<0.01
W17351		1.22	70.4	<0.01	<0.3	<3	0.90	4510	170	201	0.14	<0.5	0.4	0.009	0.47	0.06
W17352		0.09	1295	<0.01	<0.3	7	0.11	5030	30	315	<0.01	0.5	0.2	0.032	5.45	<0.01
W17353		5.36	61.0	<0.01	1.0	<3	8.48	37	160	1.86	2.04	<0.5	12.0	1.075	0.30	1.26
W17354		0.18	2.3	<0.01	<0.3	<3	0.14	11	<20	0.16	<0.01	<0.5	0.1	0.005	0.02	<0.01
W17355		0.04	410	<0.01	<0.3	<3	<0.04	3260	40	388	<0.01	<0.5	6.9	0.012	1.60	<0.01
W17356		0.16	1680	<0.01	<0.3	<3	0.07	47	40	102.0	0.03	<0.5	0.4	0.010	7.54	<0.01
W17357		0.33	158.5	<0.01	<0.3	6	0.17	6730	30	323	0.01	0.5	0.8	0.007	0.68	<0.01
W17358		0.33	75.1	<0.01	0.3	10	0.18	1260	30	106.0	0.02	<0.5	0.6	<0.005	0.29	0.01
W17359		0.13	402	0.01	<0.3	<3	0.15	7	50	65.5	0.04	<0.5	0.4	0.005	2.12	<0.01
W17360		0.15	713	<0.01	<0.3	<3	<0.04	4030	30	112.0	0.05	0.9	0.6	0.012	2.74	0.03
BO01		0.56	1375	<0.01	<0.3	<3	0.51	112	60	77.4	0.05	<0.5	0.7	0.010	6.45	0.02
BO02		0.61	2580	<0.01	<0.3	4	0.70	5780	50	170.0	0.10	<0.5	0.5	0.008	12.40	0.04
BO03		0.63	256	<0.01	<0.3	<3	0.54	290	30	138.0	0.06	<0.5	0.7	0.009	1.25	0.04
BO04		7.27	224	<0.01	<0.3	<3	5.71	21	80	2.63	0.62	<0.5	16.6	0.289	1.03	0.40
BO05		6.14	240	<0.01	<0.3	9	3.70	20	30	1.20	0.45	<0.5	17.9	0.272	0.99	0.25
BO06		8.73	134.0	<0.01	<0.3	<3	5.48	5	190	1.20	0.80	<0.5	18.8	0.277	0.66	0.29



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Sample Description	Method Analyte Units LOR	ME-MS89L U ppm 0.2	ME-MS89L V ppm 1	ME-MS89L W ppm 0.3	ME-MS89L Y ppm 0.2	ME-MS89L Yb ppm 0.02	ME-MS89L Zn ppm 10	B-MS89L B ppm 8	PUL-QC Pass75um % 0.01
W17328		1.7	1	6.6	1.3	0.08	160	65	
W17329		0.9	2	2.0	3.2	0.20	20	<8	
W17330		2.6	2	1.6	1.0	0.10	40	14	
W17331		1.9	1	2.0	1.0	0.05	30	30	
W17332		2.6	1	2.0	0.3	<0.02	40	45	99.0
W17333		5.7	1	1.3	0.4	0.02	20	<8	
W17334		1.3	1	0.4	0.6	0.07	20	<8	
W17335		1.6	1	1.6	1.6	0.12	100	<8	
W17336		2.4	1	5.5	3.0	0.16	20	15	
W17337		1.8	1	0.7	1.5	0.02	50	<8	
W17338		2.5	2	1.4	2.5	0.28	20	26	
W17339		6.0	1	0.9	2.3	0.20	20	75	
W17340		2.0	1	1.8	5.8	0.28	30	<8	
W17341		3.5	1	3.5	1.0	0.05	60	102	
W17342		3.0	2	1.4	4.8	0.28	20	71	
W17343		5.1	<1	1.2	2.5	0.10	30	135	
W17344		2.7	2	0.8	0.9	0.11	10	24	
W17345		3.0	2	1.8	4.6	0.42	20	<8	
W17346		1.6	2	0.7	0.6	0.07	40	575	
W17346A		2.5	1	7.6	2.2	0.02	70	<8	
W17347		3.8	2	0.6	0.9	0.05	20	<8	
W17348		3.4	1	1.7	4.0	0.26	10	<8	
W17349		2.3	1	1.7	1.8	0.11	40	<8	
W17350		4.7	1	2.4	0.6	<0.02	30	<8	
W17351		2.3	3	2.1	5.5	0.39	40	17	
W17352		1.5	1	3.0	0.3	0.05	50	<8	
W17353		2.1	54	3.4	76.7	9.22	170	<8	
W17354		<0.2	1	1.0	0.4	0.05	<10	<8	
W17355		3.1	2	2.6	1.0	<0.02	20	<8	
W17356		0.7	2	1.3	1.0	0.02	20	<8	
W17357		1.5	2	1.5	1.2	0.15	20	<8	
W17358		1.0	1	0.8	1.3	0.19	20	<8	
W17359		7.8	<1	1.3	2.0	0.10	10	<8	
W17360		2.4	1	2.3	1.5	0.15	30	<8	
B001		3.1	1	2.5	2.7	0.15	20	<8	
B002		1.2	3	2.3	4.7	0.29	20	<8	
B003		3.2	2	2.6	2.1	0.19	10	<8	
B004		3.3	60	5.3	24.4	2.35	70	<8	
B005		2.0	62	10.6	15.2	1.71	60	200	
B006		3.6	53	0.9	24.3	3.09	70	35	



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-MS89L Ag ppm 5	ME-MS89L As ppm 4	ME-MS89L Ba ppm 2	ME-MS89L Be ppm 0.4	ME-MS89L Bi ppm 0.1	ME-MS89L Ca % 0.1	ME-MS89L Cd ppm 0.8	ME-MS89L Ce ppm 0.2	ME-MS89L Co ppm 0.5	ME-MS89L Cs ppm 0.1	ME-MS89L Cu ppm 20	ME-MS89L Dy ppm 0.03	ME-MS89L Er ppm 0.02	ME-MS89L Eu ppm 0.03
B007		0.88	<5	<4	817	3.8	0.7	0.1	<0.8	49.3	16.4	59.7	90	4.99	2.88	0.61
B008		0.72	<5	6	1220	4.1	0.2	0.1	<0.8	22.6	19.7	36.7	30	4.21	2.60	0.50
B009		0.99	<5	<4	76	92.2	2.2	0.1	<0.8	2.3	1.1	118.0	<20	0.81	0.48	0.16
B010		1.20	<5	<4	21	16.2	0.4	0.1	<0.8	1.6	1.4	94.7	<20	0.23	0.02	<0.03
B010A		<0.02	<5	6	54	177.0	1.2	0.3	<0.8	0.5	0.8	147.5	<20	0.07	<0.02	<0.03
B011		0.57	<5	<4	76	7.0	<0.1	0.1	<0.8	2.9	0.9	80.1	<20	0.22	<0.02	<0.03
B012		0.44	<5	6	259	104.0	0.1	0.3	<0.8	26.5	2.7	175.0	20	1.62	0.74	0.32
B013		0.82	<5	<4	61	300	0.8	0.1	<0.8	2.2	2.4	666	30	0.88	0.26	0.28
B014		0.89	<5	<4	69	110.0	0.8	0.2	<0.8	2.4	1.2	259	<20	0.24	<0.02	<0.03
B015		0.75	<5	<4	35	480	0.3	0.1	<0.8	5.3	1.3	1425	<20	0.62	0.31	0.29
B016		0.76	<5	<4	236	29.3	0.2	1.6	<0.8	59.3	3.9	1695	<20	3.47	2.04	1.04
B017		0.68	<5	4	81	49.7	0.1	0.3	<0.8	3.6	2.1	32.5	<20	0.26	0.30	0.13
B018		0.64	6	<4	106	110.0	0.7	0.1	<0.8	9.1	1.8	44.5	<20	0.40	0.35	0.14
B019		0.84	8	<4	575	11.0	0.7	0.2	<0.8	69.0	15.2	1265	<20	3.07	1.70	0.66
B020		0.79	7	<4	34	6.4	0.3	0.5	<0.8	1.5	1.4	241	<20	0.23	0.19	0.10
B021		2.81	10	<4	10	4.6	0.8	0.1	1.4	0.9	1.2	18.1	<20	0.13	<0.02	<0.03
B022		0.80	7	<4	16	104.5	1.6	0.2	<0.8	0.6	2.7	333	<20	0.06	0.03	<0.03
B023		0.84	6	<4	31	95.7	0.2	0.2	<0.8	1.7	1.0	613	<20	0.20	0.10	<0.03
B024		0.52	6	<4	28	174.0	0.4	0.2	<0.8	1.2	0.8	469	<20	0.18	0.13	<0.03
B025		1.71	6	<4	22	4.4	<0.1	0.1	<0.8	2.6	0.9	2250	<20	0.39	0.29	0.05
B026		1.83	7	<4	97	45.5	0.1	0.1	<0.8	5.5	0.9	2890	<20	1.48	1.02	0.41
B027		0.59	8	<4	813	4.1	0.2	0.7	<0.8	79.6	14.9	90.3	20	4.17	2.70	0.86



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		0.05	0.5	0.03	0.5	0.01	0.3	0.08	2	0.05	10	2	0.8	0.07	10	0.5
B007		5.36	32.5	3.03	2.1	1.09	0.4	15.75	106	0.51	290	<2	15.6	15.05	40	18.9
B008		5.25	32.1	2.73	1.2	0.83	0.7	11.35	91	0.43	420	<2	14.6	10.30	60	13.7
B009		0.44	25.2	0.79	6.6	0.17	0.5	1.54	7660	0.07	230	<2	62.6	1.99	10	5.5
B010		0.85	23.8	0.11	4.9	<0.01	0.3	0.70	19600	<0.05	420	<2	11.2	0.71	10	5.4
B010A		0.57	58.3	0.13	7.2	<0.01	0.4	0.32	3250	<0.05	940	3	49.3	0.21	10	12.2
B011		0.64	18.7	0.29	4.9	0.02	<0.3	0.94	42	<0.05	120	<2	36.7	0.45	20	8.6
B012		1.17	59.5	1.77	5.9	0.26	<0.3	15.20	92	0.11	310	<2	82.1	11.25	10	6.9
B013		0.95	95.0	1.16	5.9	0.23	<0.3	3.14	1820	0.05	660	<2	103.0	4.14	20	2.4
B014		0.45	26.9	0.42	4.7	0.07	<0.3	1.22	690	<0.05	390	<2	43.3	1.39	10	5.4
B015		0.95	132.5	1.01	6.9	0.14	<0.3	5.78	1840	<0.05	450	<2	152.0	6.25	10	2.3
B016		1.99	45.8	3.99	6.6	0.66	<0.3	33.2	1750	0.28	1060	<2	46.4	22.5	20	5.2
B017		0.32	21.9	0.64	6.2	0.11	0.4	3.66	32	<0.05	340	<2	35.6	2.83	10	4.2
B018		0.42	29.1	0.74	7.2	0.08	<0.3	3.32	34	<0.05	180	<2	27.4	3.98	10	6.1
B019		4.86	56.5	3.79	6.3	0.56	<0.3	35.8	1190	0.24	820	<2	69.3	33.7	40	6.6
B020		0.33	30.9	0.28	9.1	<0.01	<0.3	0.85	50	<0.05	190	<2	17.5	1.03	10	6.4
B021		1.03	16.7	<0.03	5.4	<0.01	<0.3	0.26	20500	<0.05	1230	2	3.0	0.18	20	5.7
B022		0.90	82.4	0.09	7.5	<0.01	<0.3	0.42	570	<0.05	550	<2	217	0.32	10	2.7
B023		0.72	66.9	0.20	7.7	<0.01	<0.3	1.18	1950	<0.05	620	<2	63.0	1.33	10	3.1
B024		0.60	53.0	0.32	5.9	0.01	<0.3	0.82	390	<0.05	470	<2	46.9	1.24	10	4.3
B025		0.27	43.6	0.52	20.5	0.02	<0.3	3.10	480	<0.05	100	<2	1.0	2.55	10	15.3
B026		1.02	157.5	1.51	9.1	0.31	<0.3	5.66	3690	0.13	630	<2	101.5	6.86	10	2.2
B027		4.09	22.3	4.05	1.3	0.90	<0.3	25.8	219	0.28	710	<2	15.8	23.5	40	16.5



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Sample Description	Method Analyte Units LOR	ME-MS89L Pr ppm 0.03	ME-MS89L Rb ppm 0.5	ME-MS89L Re ppm 0.01	ME-MS89L Sb ppm 0.3	ME-MS89L Se ppm 3	ME-MS89L Sm ppm 0.04	ME-MS89L Sn ppm 3	ME-MS89L Sr ppm 20	ME-MS89L Ta ppm 0.04	ME-MS89L Tb ppm 0.01	ME-MS89L Te ppm 0.5	ME-MS89L Th ppm 0.1	ME-MS89L Ti % 0.005	ME-MS89L Tl ppm 0.02	ME-MS89L Tm ppm 0.01
B007		4.69	313	<0.01	<0.3	<3	3.35	6	40	1.24	0.61	<0.5	19.5	0.370	1.29	0.43
B008		3.17	413	<0.01	<0.3	<3	2.78	8	30	1.10	0.57	0.6	18.2	0.380	1.94	0.37
B009		0.52	462	<0.01	<0.3	9	1.34	50	<20	197.5	0.16	0.6	0.7	0.006	2.78	0.05
B010		0.17	317	0.01	<0.3	<3	0.23	216	<20	24.4	0.02	0.5	0.4	0.006	1.63	<0.01
B010A		<0.03	3790	<0.01	<0.3	4	<0.04	436	20	346	<0.01	1.4	3.6	<0.005	29.8	<0.01
B011		0.16	619	<0.01	0.3	<3	0.07	100	<20	67.8	0.02	<0.5	0.6	0.008	2.85	<0.01
B012		3.09	1875	<0.01	0.3	5	2.63	2700	20	166.5	0.17	<0.5	3.8	0.075	7.81	0.12
B013		1.07	4130	<0.01	0.8	<3	1.58	799	40	129.0	0.21	<0.5	0.2	0.042	18.85	0.06
B014		0.27	1250	<0.01	0.4	<3	0.58	64	60	75.3	0.06	1.5	1.0	0.006	7.37	0.04
B015		1.49	6000	<0.01	<0.3	<3	1.13	1080	30	253	0.14	<0.5	1.3	0.060	26.2	0.02
B016		7.06	5380	0.01	<0.3	<3	5.34	411	40	64.5	0.50	<0.5	10.1	0.166	25.8	0.33
B017		0.61	252	<0.01	0.5	4	0.38	119	20	67.2	0.10	0.5	0.7	0.005	1.74	0.03
B018		0.94	358	<0.01	<0.3	<3	0.88	82	<20	36.2	0.10	0.5	0.8	0.008	1.44	0.01
B019		8.91	3320	<0.01	<0.3	4	6.00	529	20	84.7	0.56	0.7	11.5	0.240	15.60	0.20
B020		0.19	2650	<0.01	<0.3	<3	0.13	284	30	74.2	<0.01	0.6	0.2	<0.005	15.05	<0.01
B021		0.07	77.8	<0.01	<0.3	<3	0.06	14	<20	5.27	<0.01	<0.5	0.2	<0.005	0.32	<0.01
B022		0.06	3270	<0.01	<0.3	<3	0.13	18200	<20	304	<0.01	0.6	0.1	0.030	12.35	<0.01
B023		0.30	2810	<0.01	<0.3	<3	0.30	183	<20	33.1	<0.01	<0.5	0.3	0.017	11.20	<0.01
B024		0.17	2660	<0.01	<0.3	<3	0.35	1430	<20	66.4	0.03	<0.5	0.2	0.025	11.45	<0.01
B025		0.68	16800	<0.01	<0.3	<3	0.71	29	20	2.60	0.06	<0.5	0.1	<0.005	100.5	0.02
B026		1.51	10900	<0.01	<0.3	<3	1.40	480	40	139.0	0.18	<0.5	0.7	0.063	40.6	0.09
B027		6.03	312	<0.01	<0.3	<3	4.25	243	50	5.62	0.69	0.6	14.9	0.316	1.17	0.32



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Sample Description	Method Analyte Units LOR	ME-MS89L U ppm 0.2	ME-MS89L V ppm 1	ME-MS89L W ppm 0.3	ME-MS89L Y ppm 0.2	ME-MS89L Yb ppm 0.02	ME-MS89L Zn ppm 10	B-MS89L B ppm 8	PUL-QC Pass75um % 0.01
B007		4.2	108	4.6	27.5	2.93	120	66	
B008		1.5	127	6.3	22.2	3.16	150	21	
B009		3.6	2	1.3	6.0	0.43	20	<8	
B010		0.8	2	0.9	1.3	<0.02	50	<8	95.0
B010A		4.7	2	5.1	0.4	<0.02	70	<8	
B011		0.3	2	2.6	1.1	0.14	20	<8	
B012		1.0	13	10.0	5.6	0.88	50	55	
B013		2.8	2	10.0	4.0	0.33	160	11	
B014		1.9	1	2.1	1.5	0.12	40	<8	
B015		1.6	1	12.0	2.9	0.22	220	22	
B016		3.6	33	15.3	20.7	1.90	100	<8	
B017		1.2	<1	1.3	3.2	0.35	30	<8	
B018		2.6	2	1.2	3.0	0.26	20	10	
B019		2.8	66	18.0	15.8	1.47	250	3480	
B020		1.3	1	0.8	2.5	0.05	20	31	
B021		0.9	2	0.4	0.3	<0.02	40	<8	
B022		0.7	<1	10.9	0.4	<0.02	200	63	
B023		2.4	1	6.8	1.2	0.08	190	48	
B024		0.8	2	3.1	2.7	0.14	50	26	
B025		1.1	2	0.3	3.0	0.16	20	18	
B026		1.4	3	10.3	10.4	0.74	410	83	
B027		2.9	77	3.0	23.2	2.30	80	212	



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	CERTIFICATE COMMENTS			
	LABORATORY ADDRESSES			
	Applies to Method:	Processed at ALS Adelaide located at Unit 1, 1 Burma Road, Pooraka, Adelaide, SA, Australia.		
		CRU-21	LEV-01	LOG-22
		PUL-23	PUL-QC	LOG-24
	Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
		B-MS89L	ME-MS89L	