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Plus Appendix Pages  
Finalized Date: 17-SEP-2017  
Account: TODRIV

## CERTIFICATE AD17182210

P.O. No.: TRR17-011

This report is for 65 Rock samples submitted to our lab in Adelaide, SA, Australia on 31-AUG-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
CRU-21	Crush entire sample >70% -6 mm
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
LEV-01	Waste Disposal Levy
PUL-23	Pulv Sample - Split/Retain

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
B-MS89L	Boron Add-on to ME-MS89L
ME-MS89L	Super Trace DL 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 AD17182210

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
B028		0.55	<5	<4	745	23.3	0.4	0.3	<0.8	79.8	15.6	1345	<20	5.09	2.83	1.00
B029		0.37	<5	<4	72	260	0.3	0.3	<0.8	5.8	1.1	38.5	40	0.37	0.29	0.16
B030		0.39	<5	<4	63	240	0.6	0.5	<0.8	4.4	1.5	160.5	20	0.32	0.17	0.06
B031		0.51	<5	18	289	35.0	0.8	0.4	<0.8	17.7	3.0	809	<20	1.52	0.77	0.56
B032		0.79	<5	<4	62	4.3	0.6	0.3	<0.8	2.3	2.0	807	<20	0.30	0.09	0.08
B033		0.72	<5	<4	477	55.0	0.5	0.8	<0.8	40.2	3.4	387	<20	2.28	1.24	0.94
B034		0.79	<5	<4	250	570	0.2	0.5	<0.8	9.6	0.9	162.0	<20	0.82	0.28	0.33
B035		0.41	<5	<4	701	68.5	0.6	0.6	<0.8	94.3	9.6	261	<20	6.79	3.31	1.84
B036		0.90	<5	<4	68	3.6	0.2	0.1	<0.8	2.6	0.7	39.0	<20	0.18	0.10	0.12
B037		0.79	<5	<4	50	18.2	0.1	0.1	<0.8	3.0	0.7	42.5	<20	0.06	0.04	<0.03
B037A		<0.02	<5	<4	17	155.5	1.6	0.3	<0.8	0.9	1.2	170.5	<20	0.37	0.03	<0.03
B038		0.80	<5	<4	17	2.7	0.2	0.1	<0.8	2.1	<0.5	5.9	<20	0.12	<0.02	<0.03
B039		1.04	<5	<4	316	2.4	1.2	0.4	<0.8	37.5	4.1	4.3	<20	2.01	1.04	0.35
B040		0.91	<5	<4	855	2.1	0.3	1.1	<0.8	74.5	7.8	6.1	<20	3.37	2.30	0.66
B041		0.86	<5	<4	1260	2.3	0.6	0.8	<0.8	86.1	9.7	11.2	<20	4.85	2.36	0.98
B042		0.23	5	<4	178	43.9	0.4	0.4	<0.8	4.7	2.0	135.0	<20	0.78	0.44	0.16
B043		0.82	<5	<4	72	91.8	2.1	0.2	<0.8	2.8	1.0	90.2	<20	0.78	0.56	0.11
B044		0.80	<5	<4	95	24.9	0.2	0.2	<0.8	5.1	1.0	110.5	<20	1.02	0.54	0.27
B045		0.63	<5	<4	115	29.5	0.5	0.5	<0.8	1.4	0.8	67.3	<20	0.23	0.16	0.03
B046		0.67	<5	<4	237	126.5	0.2	0.3	<0.8	7.9	0.8	207	<20	0.48	0.15	0.08
B047		1.04	<5	<4	100	161.5	0.2	0.4	<0.8	3.0	2.0	289	<20	0.37	0.16	0.10
B048		1.04	<5	<4	20	5.1	3.8	0.3	<0.8	1.6	0.8	135.5	<20	0.21	0.13	<0.03
B049		0.68	<5	<4	27	80.7	11.0	0.2	<0.8	1.8	0.9	213	<20	0.35	0.17	<0.03
B050		1.16	<5	<4	77	6.7	0.3	0.5	<0.8	1.8	1.2	8.4	<20	0.28	0.06	<0.03
B051		0.94	<5	<4	241	2.8	0.1	0.4	<0.8	2.1	0.7	95.7	<20	0.16	0.08	0.07
B052		1.00	<5	<4	186	6.0	0.2	0.7	<0.8	5.1	0.6	31.4	<20	0.47	0.20	0.11
B053		1.05	<5	<4	138	147.0	0.1	0.7	<0.8	5.3	1.0	70.0	<20	0.59	0.35	0.09
B054		0.87	<5	<4	563	132.0	0.1	0.5	<0.8	1.7	2.1	15.3	<20	0.30	0.18	0.07
B055		0.99	<5	<4	63	11.1	0.2	0.4	<0.8	2.6	1.0	932	<20	0.23	0.15	0.08
B056		0.73	<5	<4	117	133.0	0.4	0.6	<0.8	4.3	2.5	54.1	<20	0.54	0.33	0.09
B057		0.83	<5	<4	203	55.9	0.6	0.3	<0.8	12.6	1.4	167.0	<20	0.54	0.25	0.22
B057A		0.05	<5	13	90	83.3	5.2	0.4	<0.8	2.1	3.1	153.5	50	0.42	0.19	0.10
B058		0.93	5	<4	23	0.4	3.7	0.2	<0.8	1.1	1.2	23.0	<20	<0.03	0.03	<0.03
B059		1.21	<5	<4	153	192.5	0.9	0.3	<0.8	10.8	1.3	289	<20	1.14	0.34	0.35
B060		1.03	<5	<4	20	2.6	1.1	0.1	<0.8	2.3	<0.5	104.0	<20	0.07	<0.02	0.06
B061		0.66	<5	<4	158	109.0	0.3	0.4	<0.8	9.3	0.6	205	<20	0.50	0.21	0.26
B062		1.07	<5	<4	456	110.0	0.5	0.4	<0.8	22.6	0.8	73.8	<20	1.19	0.53	0.54
B063		0.90	<5	<4	418	114.5	0.9	0.7	<0.8	18.4	1.2	103.0	<20	1.34	0.67	0.64
B064		0.41	<5	5	572	13.5	1.5	0.4	<0.8	77.6	21.3	206	<20	4.74	2.60	1.34
B065		1.10	<5	<4	176	92.7	0.9	0.5	<0.8	24.3	1.5	24.5	<20	1.31	0.58	0.35



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Sample Description	Method Analyte Units LOR	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L
		Fe	Ga	Gd	Ge	Ho	In	K	La	Li	Lu	Mn	Mo	Nb	Nd	Ni
		%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.5	0.03	0.5	0.01	0.3	0.05	0.08	2	0.05	10	2	0.8	0.07	10
BO28		5.49	37.2	5.10	4.3	0.99	<0.3	5.58	47.7	1160	0.41	530	<2	20.8	34.3	40
BO29		0.42	21.8	0.32	6.4	0.06	<0.3	1.39	4.99	35	<0.05	110	<2	59.6	3.98	<10
BO30		0.85	50.5	0.39	10.1	0.06	<0.3	1.07	2.75	79	<0.05	620	<2	95.6	2.15	<10
BO31		1.72	68.2	1.67	7.1	0.27	<0.3	5.41	9.12	820	0.12	690	<2	81.0	8.38	10
BO32		0.30	29.6	0.30	11.9	0.02	<0.3	11.25	2.03	218	<0.05	170	<2	1.8	1.70	10
BO33		1.34	30.1	2.86	5.5	0.44	<0.3	3.23	23.1	620	0.21	930	<2	45.6	18.10	10
BO34		0.43	30.3	0.84	8.3	0.16	<0.3	4.91	10.15	158	0.06	210	<2	39.7	6.46	10
BO35		2.55	32.4	9.29	4.1	1.48	<0.3	5.07	84.0	510	0.48	630	<2	27.7	56.0	30
BO36		0.44	10.3	0.27	3.1	0.02	<0.3	0.94	1.93	40	<0.05	60	<2	9.2	1.44	10
BO37		0.41	16.3	0.10	5.3	0.01	<0.3	0.81	2.01	8	<0.05	80	<2	15.1	1.04	10
BO37A		1.06	62.2	0.83	6.2	0.02	<0.3	2.91	0.34	7960	<0.05	1210	2	72.8	0.33	20
BO38		0.47	1.3	0.13	3.3	0.02	<0.3	0.44	1.71	7	<0.05	100	<2	7.5	1.13	<10
BO39		1.38	7.9	1.51	0.6	0.31	<0.3	0.80	11.75	12	0.18	190	<2	4.0	9.34	10
BO40		2.35	15.1	3.27	0.8	0.74	<0.3	3.64	27.1	32	0.35	360	<2	11.0	22.0	20
BO41		2.60	15.2	5.12	1.3	0.89	<0.3	3.78	42.6	48	0.36	460	<2	10.4	29.9	20
BO42		0.54	26.4	0.66	5.6	0.14	<0.3	3.94	2.54	53	0.09	300	<2	92.1	2.21	10
BO43		0.33	22.8	0.92	5.8	0.16	<0.3	0.38	2.00	8120	0.07	200	<2	35.7	2.50	<10
BO44		0.28	19.3	1.43	4.7	0.15	<0.3	1.49	6.30	720	0.08	140	<2	16.2	5.91	<10
BO45		0.28	22.5	0.28	5.3	0.03	<0.3	4.31	0.93	35	<0.05	140	5	29.6	0.70	<10
BO46		0.45	27.6	0.43	4.9	0.05	<0.3	2.14	4.69	1770	<0.05	270	<2	58.1	3.01	<10
BO47		0.40	32.9	0.37	6.3	0.06	<0.3	1.70	1.76	740	<0.05	720	<2	62.8	1.34	10
BO48		0.62	38.1	0.11	3.7	0.02	<0.3	1.65	1.17	240	<0.05	300	<2	41.2	0.63	10
BO49		0.78	62.3	0.40	5.3	0.07	<0.3	2.53	1.86	870	<0.05	420	<2	64.3	1.89	10
BO50		0.40	36.0	0.19	7.4	0.01	<0.3	0.27	0.79	17	<0.05	790	<2	82.4	0.91	<10
BO51		0.20	24.6	0.29	5.0	<0.01	<0.3	10.60	1.34	13	<0.05	70	<2	7.8	1.19	10
BO52		0.48	31.2	0.53	4.9	0.05	<0.3	1.26	5.21	18	<0.05	460	<2	56.5	3.15	10
BO53		0.42	32.6	0.59	6.2	0.15	<0.3	3.04	3.63	12	0.06	370	<2	135.0	2.64	<10
BO54		0.42	30.1	0.32	6.1	0.03	<0.3	3.69	1.23	14	<0.05	420	<2	76.7	1.35	<10
BO55		0.69	120.5	0.38	10.3	0.04	<0.3	6.24	1.91	79	<0.05	570	<2	1050	1.64	<10
BO56		0.30	30.2	0.52	7.3	0.08	<0.3	0.67	1.82	44	0.08	330	<2	119.0	2.06	<10
BO57		0.62	56.5	0.83	5.2	0.08	<0.3	3.40	11.45	57	<0.05	320	<2	87.9	7.45	<10
BO57A		0.91	40.3	0.55	4.8	0.08	<0.3	2.74	0.84	1650	<0.05	520	3	71.3	1.42	20
BO58		0.70	<0.5	0.06	<0.5	<0.01	<0.3	0.20	0.65	14	<0.05	100	<2	4.6	0.65	10
BO59		0.50	56.6	1.43	6.7	0.22	<0.3	4.08	14.85	46	<0.05	260	<2	51.1	8.81	<10
BO60		0.45	8.0	0.15	11.8	<0.01	<0.3	0.71	1.73	24	<0.05	110	<2	7.0	1.16	<10
BO61		0.72	63.2	0.79	5.6	0.10	<0.3	4.12	7.73	69	<0.05	140	<2	67.4	5.75	<10
BO62		0.40	37.6	1.79	7.5	0.20	<0.3	7.25	14.65	29	<0.05	220	<2	62.3	10.85	<10
BO63		0.57	39.2	1.83	7.6	0.29	<0.3	3.05	11.65	81	0.10	280	<2	63.9	9.57	10
BO64		5.53	45.2	6.16	3.3	1.11	<0.3	3.43	49.7	290	0.39	720	<2	17.8	37.6	40
BO65		0.48	22.3	1.65	4.6	0.21	<0.3	1.49	11.05	38	0.09	160	<2	62.0	9.06	<10

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		Pb	Pr	Rb	Re	Sb	Se	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.03	0.5	0.01	0.3	3	0.04	3	20	0.04	0.01	0.5	0.1	0.005	0.02
B028		5.7	10.30	3170	0.01	<0.3	<3	6.00	424	20	6.30	0.80	<0.5	15.5	0.342	18.20
B029		7.5	0.74	339	<0.01	<0.3	<3	0.46	38	20	107.0	0.09	<0.5	1.5	0.010	1.47
B030		5.2	0.60	998	<0.01	<0.3	<3	0.41	1240	30	176.0	0.08	<0.5	0.9	0.017	4.64
B031		9.4	2.37	4570	0.01	<0.3	<3	1.35	495	20	134.5	0.23	<0.5	9.2	0.163	21.3
B032		18.3	0.36	10050	<0.01	<0.3	<3	0.23	23	30	3.34	0.03	<0.5	0.2	<0.005	66.4
B033		9.1	5.17	1880	<0.01	<0.3	<3	3.74	211	40	86.8	0.47	<0.5	5.9	0.071	8.35
B034		18.0	1.87	1500	<0.01	<0.3	<3	1.26	101	40	86.3	0.12	<0.5	0.9	0.011	7.34
B035		10.0	17.30	1050	<0.01	<0.3	<3	10.15	156	30	44.8	1.27	<0.5	10.5	0.210	5.19
B036		2.3	0.38	187.5	<0.01	<0.3	<3	0.28	65	<20	14.85	0.03	<0.5	0.3	0.011	0.81
B037		1.6	0.38	524	<0.01	<0.3	<3	0.17	71	<20	6.40	0.02	<0.5	0.3	0.010	1.96
B037A		9.9	0.10	4390	<0.01	<0.3	<3	0.52	299	20	137.5	0.18	<0.5	4.2	<0.005	33.8
B038		1.7	0.32	57.4	<0.01	<0.3	<3	0.22	12	<20	15.40	0.04	<0.5	0.3	<0.005	0.28
B039		7.0	2.50	34.6	<0.01	<0.3	<3	1.60	11	40	1.42	0.31	<0.5	6.4	0.097	0.18
B040		17.6	7.04	135.0	<0.01	<0.3	<3	4.62	6	110	0.94	0.52	<0.5	16.8	0.284	0.46
B041		27.1	9.17	181.0	<0.01	<0.3	<3	5.80	6	120	0.89	0.69	<0.5	16.8	0.273	0.82
B042		29.8	0.69	1890	0.01	<0.3	<3	0.49	1030	40	168.0	0.12	<0.5	1.3	0.009	11.05
B043		3.4	0.69	236	<0.01	<0.3	<3	0.63	35	<20	92.4	0.16	<0.5	0.4	0.005	1.43
B044		3.1	1.44	967	<0.01	<0.3	<3	1.01	44	30	21.7	0.18	<0.5	0.2	0.006	4.99
B045		12.6	0.21	1435	<0.01	<0.3	<3	0.25	59	40	69.7	0.05	<0.5	0.3	<0.005	6.62
B046		7.0	0.86	1400	<0.01	<0.3	<3	0.60	197	40	73.1	0.11	<0.5	0.8	0.009	7.79
B047		5.8	0.47	1035	0.01	<0.3	<3	0.38	372	40	63.2	0.08	<0.5	0.7	0.009	5.08
B048		3.0	0.24	1340	0.01	<0.3	<3	0.35	143	<20	17.35	0.05	<0.5	0.4	0.020	5.52
B049		1.6	0.47	2280	<0.01	<0.3	<3	0.31	250	<20	26.3	0.07	<0.5	0.2	0.030	9.38
B050		5.7	0.23	46.7	<0.01	<0.3	<3	0.24	338	40	87.4	0.04	<0.5	1.0	<0.005	0.20
B051		49.7	0.27	2590	<0.01	0.9	<3	0.31	35	70	8.50	0.05	<0.5	0.1	<0.005	11.25
B052		8.3	0.82	377	<0.01	0.3	<3	0.64	397	40	43.6	0.07	<0.5	1.0	0.006	1.38
B053		15.0	0.75	908	<0.01	0.9	<3	0.58	569	40	221	0.12	<0.5	1.3	0.012	3.75
B054		11.5	0.25	292	<0.01	<0.3	<3	0.19	63	60	122.5	0.07	<0.5	0.5	0.010	0.98
B055		22.2	0.38	4250	<0.01	<0.3	<3	0.30	593	40	5180	0.05	<0.5	2.9	0.038	17.30
B056		7.6	0.49	448	<0.01	0.3	<3	0.59	176	20	135.0	0.12	<0.5	3.4	0.007	2.13
B057		4.5	2.22	1845	<0.01	0.5	<3	1.00	235	<20	56.8	0.12	<0.5	0.2	0.027	7.57
B057A		9.6	0.30	2090	<0.01	7.5	<3	0.53	53	<20	162.0	0.10	<0.5	3.4	0.014	15.05
B058		1.6	0.17	28.1	<0.01	0.3	<3	0.13	4	<20	16.25	0.04	<0.5	0.1	0.010	0.13
B059		6.0	2.29	2300	<0.01	<0.3	<3	1.68	270	<20	71.2	0.15	0.6	0.7	0.019	10.15
B060		1.5	0.36	380	<0.01	<0.3	<3	0.29	37	<20	15.75	0.01	<0.5	0.1	0.010	2.19
B061		8.9	1.64	2190	<0.01	<0.3	<3	0.93	729	20	58.0	0.09	<0.5	0.7	0.036	9.25
B062		26.4	3.07	948	<0.01	<0.3	<3	1.80	787	80	116.5	0.23	<0.5	1.3	0.011	3.69
B063		15.7	2.45	1040	<0.01	<0.3	<3	2.03	187	40	148.5	0.27	0.5	1.3	0.022	4.48
B064		13.6	10.95	598	<0.01	<0.3	<3	7.80	169	30	7.51	0.91	0.6	20.4	0.353	2.95
B065		11.4	2.35	228	<0.01	<0.3	<3	1.91	279	20	98.3	0.20	<0.5	2.1	0.028	0.93

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Sample Description	Method Analyte Units LOR	ME-MS89L Tm ppm 0.01	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
B028		0.48	2.1	93	17.8	27.9	2.69	150	3800	
B029		0.04	2.1	1	2.4	2.4	0.26	40	120	
B030		0.06	5.1	2	3.5	2.1	0.21	60	62	
B031		0.12	4.2	40	13.5	7.4	0.91	60	68	
B032		0.01	0.3	<1	15.5	1.2	0.09	10	45	94.0
B033		0.23	2.9	11	7.8	14.2	1.14	60	28	
B034		0.06	2.6	1	3.4	4.8	0.38	30	89	
B035		0.52	4.0	42	9.7	39.4	2.87	50	847	
B036		0.02	0.5	3	2.6	1.0	0.12	<10	52	
B037		<0.01	0.4	2	1.6	0.5	0.08	10	26	
B037A		<0.01	2.9	<1	6.9	2.0	0.09	70	51	
B038		0.01	0.2	<1	0.3	0.6	0.07	10	10	
B039		0.17	1.6	22	1.0	9.8	0.95	20	2710	
B040		0.36	2.4	51	2.0	21.6	2.23	40	87	
B041		0.34	2.9	52	2.2	26.2	2.31	70	77	
B042		0.08	3.4	1	3.1	5.4	0.36	30	26	
B043		0.11	3.1	<1	<0.3	7.0	0.43	30	17	
B044		0.05	1.0	<1	0.3	7.7	0.44	10	18	
B045		0.02	2.1	<1	0.7	1.5	0.06	10	13	
B046		0.03	2.8	<1	2.4	1.7	0.23	20	19	
B047		0.05	5.7	<1	2.5	2.0	0.25	40	15	
B048		0.02	0.5	1	4.8	1.8	0.21	50	27	
B049		0.02	0.3	<1	7.8	2.0	0.18	140	44	
B050		0.01	12.0	<1	2.4	0.9	0.11	20	29	
B051		0.01	0.4	<1	<0.3	0.9	0.04	10	<8	
B052		0.03	5.4	<1	5.4	2.9	0.19	20	15	
B053		0.06	9.0	<1	3.3	3.9	0.30	10	<8	
B054		0.04	2.1	<1	1.3	1.8	0.11	70	<8	
B055		0.02	9.4	<1	12.8	1.7	0.15	20	52	
B056		0.05	3.6	<1	3.5	3.6	0.53	20	11	
B057		0.06	0.5	<1	7.7	2.6	0.19	20	51	
B057A		0.03	7.8	6	2.9	2.8	0.19	50	279	
B058		0.02	0.2	2	<0.3	0.4	0.10	10	12	
B059		0.08	1.7	4	7.8	6.5	0.28	40	81	
B060		<0.01	0.3	4	0.7	0.5	0.05	20	14	
B061		0.04	0.8	4	8.3	2.2	0.18	20	50	
B062		0.07	2.0	3	3.8	5.2	0.47	10	33	
B063		0.12	3.4	6	3.4	7.6	0.60	20	51	
B064		0.44	6.0	110	6.4	27.3	3.04	150	14450	
B065		0.10	5.1	8	2.3	8.1	0.74	10	496	



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**CERTIFICATE OF ANALYSIS AD17182210**

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
B066		0.90	<5	<4	244	10.0	0.1	0.5	<0.8	2.2	1.5	6.5	<20	0.33	0.17	0.07
B067		1.24	<5	<4	121	134.0	0.3	0.7	<0.8	1.2	3.5	2.1	<20	0.27	0.14	0.08
B068		0.84	<5	<4	147	123.0	0.2	0.3	<0.8	9.5	1.8	320	<20	0.88	0.46	0.27
B069		1.15	<5	<4	239	102.5	0.2	0.3	<0.8	5.2	1.5	262	<20	0.79	0.46	0.33
B070		Not Recvd														
B071		1.05	<5	<4	42	158.0	0.2	0.4	<0.8	7.4	2.4	205	<20	0.19	0.16	0.04
B072		1.08	<5	<4	16	15.8	0.2	0.4	<0.8	4.8	0.6	16.6	<20	0.75	0.47	0.25
B073		1.39	<5	4	80	77.8	0.3	0.3	<0.8	10.9	1.2	161.5	<20	0.68	0.34	0.21
B074		1.58	<5	<4	135	154.0	0.3	0.4	<0.8	5.1	0.6	112.5	<20	0.55	0.45	0.27
B075		1.72	<5	<4	154	270	0.2	0.3	<0.8	15.8	0.8	226	<20	0.64	0.26	0.21
B076		0.79	<5	<4	187	5.8	0.8	0.4	<0.8	1.0	1.3	108.0	<20	0.07	0.04	<0.03
B077		2.06	5	<4	229	97.2	1.5	0.9	<0.8	1.7	2.1	445	<20	0.25	0.04	0.03
B077A		<0.02	<5	<4	46	175.5	1.8	0.4	<0.8	0.3	0.7	143.5	<20	0.07	<0.02	<0.03
B078		0.89	5	<4	198	74.5	0.4	0.5	<0.8	14.9	1.0	20.9	<20	1.09	0.47	0.44
B079		0.75	<5	<4	145	17.0	0.2	0.7	<0.8	3.5	1.1	1.7	<20	0.55	0.26	0.05
B080		1.40	<5	<4	88	9.3	0.1	0.6	<0.8	4.3	2.8	2.0	<20	0.33	0.20	0.14
B081		1.39	<5	<4	520	48.3	0.2	0.8	<0.8	4.0	2.0	6.7	<20	0.36	0.17	0.11
B082		1.61	5	<4	64	5.6	0.2	0.7	<0.8	1.5	0.8	1.5	<20	0.14	0.11	<0.03
B083		1.75	<5	<4	110	5.5	0.1	0.6	<0.8	2.0	1.5	3.1	<20	0.11	0.12	0.05
B084		1.39	<5	<4	62	4.1	0.6	0.2	<0.8	2.1	2.2	190.0	<20	0.28	0.15	0.07
B085		2.32	<5	<4	22	41.0	0.4	0.2	<0.8	0.8	0.5	111.0	<20	0.26	0.04	0.04
B086		0.43	<5	<4	76	92.9	0.5	0.4	<0.8	3.4	2.9	33.8	<20	0.39	0.23	0.08
B087		1.53	<5	<4	47	6.0	0.2	0.3	<0.8	2.7	1.8	19.6	<20	0.46	0.24	0.08
B088		1.20	<5	<4	76	19.0	0.2	0.5	<0.8	3.4	2.0	2.8	<20	0.70	0.38	0.11
B089		1.17	<5	<4	121	7.6	0.1	0.8	<0.8	3.2	1.9	36.3	<20	0.35	0.21	0.08

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**CERTIFICATE OF ANALYSIS AD17182210**

Sample Description	Method Analyte Units LOR	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L
		Fe	Ga	Gd	Ge	Ho	In	K	La	Li	Lu	Mn	Mo	Nb	Nd	Ni
		%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.5	0.03	0.5	0.01	0.3	0.05	0.08	2	0.05	10	2	0.8	0.07	10
BO66		0.37	20.8	0.48	4.9	0.09	<0.3	1.08	1.23	3	<0.05	170	<2	15.2	1.21	<10
BO67		0.71	17.4	0.41	2.2	0.07	<0.3	0.31	0.99	12	<0.05	1200	<2	28.0	0.85	10
BO68		0.98	37.7	1.05	6.0	0.14	<0.3	1.74	5.53	157	0.07	300	<2	35.2	4.80	<10
BO69		0.25	27.9	1.20	10.0	0.13	<0.3	8.69	8.11	42	<0.05	230	<2	32.4	5.91	<10
BO70																
BO71		0.42	48.9	0.27	9.7	0.05	<0.3	1.72	1.36	68	<0.05	270	<2	43.5	1.36	10
BO72		0.26	29.9	0.86	7.1	0.14	<0.3	0.63	4.41	12	0.07	240	<2	98.7	3.65	<10
BO73		0.74	29.4	0.87	8.8	0.13	<0.3	1.91	5.42	210	0.08	180	<2	53.6	4.57	10
BO74		0.31	29.1	0.96	8.0	0.10	<0.3	3.12	7.75	42	<0.05	100	<2	38.9	5.36	<10
BO75		0.69	44.3	0.87	4.2	0.15	<0.3	3.15	8.12	132	<0.05	110	<2	50.0	6.98	<10
BO76		0.26	28.3	0.19	8.1	0.04	<0.3	2.64	1.20	16	<0.05	130	<2	12.2	0.60	<10
BO77		0.28	38.1	0.30	11.8	0.04	<0.3	3.02	1.05	132	<0.05	360	<2	23.8	1.62	<10
BO77A		0.54	55.3	0.13	5.8	<0.01	<0.3	2.26	0.42	3350	<0.05	900	2	45.5	0.13	10
BO78		0.29	22.8	1.33	6.2	0.21	<0.3	2.57	9.44	15	0.08	160	<2	57.6	6.91	<10
BO79		0.30	37.1	0.53	7.8	0.11	<0.3	0.19	2.02	<2	<0.05	140	<2	78.2	2.00	<10
BO80		0.29	32.6	0.64	6.2	0.10	<0.3	0.15	2.25	5	<0.05	420	<2	77.5	2.17	<10
BO81		0.31	25.6	0.58	5.8	0.07	<0.3	1.76	2.00	4	<0.05	190	<2	39.6	2.30	<10
BO82		0.42	31.7	0.29	5.9	0.06	<0.3	0.21	1.18	2	<0.05	360	<2	46.5	1.02	10
BO83		0.38	35.2	0.21	6.7	0.06	<0.3	0.22	1.50	20	<0.05	790	<2	53.1	0.84	<10
BO84		0.39	36.1	0.47	8.6	0.10	<0.3	0.47	1.95	470	<0.05	670	<2	123.0	1.87	10
BO85		0.67	19.6	0.20	3.4	0.03	<0.3	0.41	1.06	16950	<0.05	290	<2	39.2	0.69	10
BO86		0.38	24.7	0.59	4.0	0.10	<0.3	0.82	2.42	250	0.05	520	<2	40.8	2.41	<10
BO87		0.75	29.7	0.39	4.9	0.11	<0.3	1.59	1.38	36	<0.05	790	<2	69.7	1.35	10
BO88		0.32	33.5	0.76	5.4	0.15	<0.3	0.35	2.12	25	<0.05	250	<2	51.8	2.09	<10
BO89		0.66	43.4	0.43	4.6	0.08	<0.3	0.97	3.12	51	<0.05	1030	<2	99.4	1.93	<10



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Sample Description	Method Analyte Units LOR	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L
		Pb	Pr	Rb	Re	Sb	Se	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
		ppm 0.5	ppm 0.03	ppm 0.5	ppm 0.01	ppm 0.3	ppm 3	ppm 0.04	ppm 3	ppm 20	ppm 0.04	ppm 0.01	ppm 0.5	ppm 0.1	% 0.005	ppm 0.02
B066		3.5	0.26	118.5	<0.01	<0.3	<3	0.33	49	40	45.3	0.05	<0.5	0.3	<0.005	0.42
B067		10.2	0.14	17.2	<0.01	0.3	<3	0.18	16	100	39.3	0.03	<0.5	0.2	0.005	0.05
B068		5.2	1.40	1650	<0.01	<0.3	<3	1.02	224	<20	26.2	0.14	<0.5	2.9	0.049	7.29
B069		15.7	1.81	6060	<0.01	<0.3	<3	1.10	17	20	55.4	0.13	<0.5	0.3	<0.005	43.0
B070																
B071		4.5	0.35	1655	<0.01	<0.3	<3	0.14	258	30	117.0	0.03	<0.5	0.7	0.015	7.84
B072		12.5	0.82	189.0	<0.01	<0.3	<3	0.95	106	20	90.9	0.15	<0.5	3.5	0.006	0.77
B073		8.1	1.30	980	<0.01	<0.3	<3	0.80	246	<20	135.0	0.08	<0.5	2.7	0.038	4.83
B074		13.3	1.42	764	<0.01	<0.3	<3	0.75	1480	50	97.6	0.09	<0.5	0.3	0.010	3.59
B075		5.1	1.87	1785	<0.01	<0.3	<3	1.43	309	<20	65.6	0.11	<0.5	1.4	0.042	7.70
B076		4.1	0.15	713	<0.01	<0.3	<3	0.24	18	30	50.5	0.01	<0.5	1.5	<0.005	3.02
B077		6.9	0.21	1755	<0.01	<0.3	<3	0.16	80	60	191.5	<0.01	<0.5	0.7	<0.005	7.72
B077A		11.7	0.06	3570	0.01	<0.3	<3	0.04	429	20	366	0.02	<0.5	4.4	<0.005	26.5
B078		11.4	1.98	325	<0.01	<0.3	<3	1.24	49	50	69.3	0.16	<0.5	0.7	0.006	1.21
B079		3.2	0.46	6.6	<0.01	<0.3	<3	0.39	26	40	185.0	0.08	<0.5	0.8	0.005	0.03
B080		5.0	0.55	4.2	<0.01	<0.3	<3	0.48	39	20	81.0	0.07	<0.5	1.1	0.005	0.02
B081		6.9	0.53	134.5	<0.01	<0.3	<3	0.44	158	90	108.5	0.07	<0.5	0.8	<0.005	0.44
B082		4.7	0.27	6.4	<0.01	<0.3	<3	0.16	89	30	56.7	0.03	<0.5	0.5	<0.005	0.04
B083		6.4	0.22	19.1	<0.01	<0.3	<3	0.20	248	50	56.8	0.02	<0.5	0.8	<0.005	0.06
B084		3.6	0.40	503	<0.01	<0.3	<3	0.33	97	30	115.0	0.04	<0.5	0.6	0.005	1.82
B085		1.8	0.15	336	<0.01	<0.3	<3	0.14	1620	<20	75.5	0.02	<0.5	0.3	0.005	1.32
B086		3.4	0.56	331	<0.01	<0.3	<3	0.35	292	20	34.3	0.09	<0.5	0.6	<0.005	1.57
B087		6.2	0.32	405	<0.01	0.3	<3	0.39	50	<20	28.7	0.06	<0.5	1.7	0.014	1.86
B088		3.3	0.42	22.8	<0.01	<0.3	<3	0.59	6	20	118.5	0.10	<0.5	0.7	0.011	0.05
B089		8.6	0.56	427	<0.01	<0.3	<3	0.39	1060	20	62.3	0.06	<0.5	1.0	0.010	1.83





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Sample Description	Method Analyte Units LOR	ME-MS89L Tm ppm 0.01	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
B066		0.03	1.4	3	0.3	1.9	0.11	10	125	
B067		0.03	1.9	4	0.3	1.8	0.16	80	87	
B068		0.06	1.4	11	6.6	4.9	0.46	20	296	
B069		0.07	1.4	1	0.3	5.5	0.42	10	39	
B070										
B071		0.02	1.7	3	4.2	2.0	0.28	30	48	94.0
B072		0.08	6.7	2	2.3	5.8	0.50	10	24	
B073		0.06	1.8	12	4.0	4.0	0.37	10	21	
B074		0.07	1.6	4	3.2	4.5	0.35	10	33	
B075		0.05	1.6	7	9.2	3.5	0.33	20	72	
B076		0.02	1.1	1	<0.3	1.5	0.08	<10	15	
B077		0.01	1.2	1	1.1	1.2	0.12	30	47	
B077A		<0.01	5.7	1	4.3	0.6	0.02	50	44	
B078		0.06	2.1	2	1.9	7.0	0.49	10	14	
B079		0.03	5.1	2	1.1	2.5	0.28	<10	<8	
B080		0.05	2.3	1	1.8	2.2	0.29	10	75	
B081		0.03	2.0	1	0.5	1.9	0.27	10	40	
B082		0.02	5.7	1	1.2	1.5	0.11	20	80	
B083		0.01	11.1	1	1.2	1.3	0.11	30	165	
B084		0.04	3.2	1	3.7	2.1	0.23	50	23	
B085		0.02	1.2	<1	0.4	1.6	0.05	20	11	
B086		0.05	2.1	2	0.9	2.8	0.19	20	10	
B087		0.04	1.1	2	2.6	3.0	0.34	60	1160	
B088		0.04	3.6	1	0.8	3.6	0.37	10	30	
B089		0.03	10.8	<1	8.6	3.0	0.33	80	772	



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<b>CERTIFICATE OF ANALYSIS    AD17182210</b>
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	<b>CERTIFICATE COMMENTS</b>										
Applies to Method:	<p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Processed at ALS Adelaide located at Unit 1, 1 Burma Road, Pooraka, Adelaide, SA, Australia.</p> <table><tr><td>CRU-21</td><td>LEV-01</td><td>LOG-22</td><td>PUL-23</td></tr><tr><td>PUL-QC</td><td>WEI-21</td><td></td><td></td></tr></table> <p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table><tr><td>B-MS89L</td><td>ME-MS89L</td></tr></table>	CRU-21	LEV-01	LOG-22	PUL-23	PUL-QC	WEI-21			B-MS89L	ME-MS89L
CRU-21	LEV-01	LOG-22	PUL-23								
PUL-QC	WEI-21										
B-MS89L	ME-MS89L										