



Australian Laboratory Services Pty. Ltd.

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No: 825, Corporate Site No: 23001.

QC CERTIFICATE AD17111732

Project: MH14

This report is for 70 Drill Core samples submitted to our lab in Adelaide, SA,
Australia on 7-JUN-2017.

The following have access to data associated with this certificate:

PAUL BURTON
CATH WETHERBY

KIM GREY

GAVIN OTTO

To: TODD RIVER METALS
ATTN: GAVIN OTTO
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 *****

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SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LOG-24	Pulp Login - Rcd w/o Barcode
PUL-QC	Pulverizing QC Test
LEV-01	Waste Disposal Levy
PUL-23	Pulv Sample - Split/Retain
BAG-01	Bulk Master for Storage
SPL-21	Split sample - riffle splitter

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP22	Au 50g FA ICP-AES finish	ICP-AES
ME-ICP61	33 element four acid ICP-AES	ICP-AES

Signature:

Cameron Brosnan, Laboratory Manager, Perth



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QC CERTIFICATE OF ANALYSIS AD17111732

Sample Description	Method Analyte Units LOR	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 Ga ppm 10	ME-ICP61 K % 0.01	ME-ICP61 La ppm 10
STANDARDS																
AMIS0282																
AMIS0282																
Target Range - Lower Bound																
Upper Bound																
GBM908-10		3.1	7.48	58	1170	1.5	3	3.92	1.9	29	151	3700	5.68	20	2.22	50
Target Range - Lower Bound		1.9	6.40	44	980	<0.5	<2	3.36	0.6	22	125	3370	4.98	<10	1.87	20
Upper Bound		4.2	7.84	70	1220	2.5	5	4.12	2.8	30	155	3890	6.10	40	2.31	70
GLG912-5																
GLG912-5																
Target Range - Lower Bound																
Upper Bound																
LEA-16																
LEA-16																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		4.6	7.96	35	1140	3.4	<2	2.71	2.1	21	94	636	3.98	20	3.23	30
Target Range - Lower Bound		3.2	6.64	21	980	2.2	<2	2.35	1.1	17	81	586	3.55	<10	2.79	<10
Upper Bound		5.7	8.14	45	1210	4.5	5	2.90	3.4	23	102	676	4.37	40	3.43	60
OGGeo08		20.8	7.18	118	490	2.9	11	2.26	19.1	98	86	8550	5.39	20	2.89	30
OGGeo08		20.3	7.04	123	580	3.0	15	2.23	19.5	100	87	8330	5.38	20	2.98	30
Target Range - Lower Bound		17.7	6.07	102	750	1.8	6	1.98	16.2	86	78	7800	4.81	<10	2.59	<10
Upper Bound		22.7	7.44	136	930	4.1	15	2.44	21.0	108	98	8980	5.91	40	3.19	60
OREAS 601		50.6	6.65	336	530	2.1	23	1.34	8.0	5	45	999	2.47	20	2.08	30
OREAS 601		49.2	6.49	324	420	2.1	20	1.34	7.9	6	37	987	2.47	20	2.13	30
Target Range - Lower Bound		43.8	5.66	271	780	1.0	16	1.17	6.5	3	37	938	2.22	<10	1.88	<10
Upper Bound		54.6	6.94	343	980	3.2	26	1.45	9.3	7	47	1080	2.74	40	2.32	50
OREAS-45e																
OREAS-45e																
OREAS-45e																
OREAS-45e																
Target Range - Lower Bound																
Upper Bound																
PK2																
PK2																
Target Range - Lower Bound																
Upper Bound																



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Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	Tl ppm	U ppm
		0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10	10
STANDARDS																
AMIS0282																
AMIS0282																
Target Range - Lower Bound																
Upper Bound																
GBM908-10		1.88	852	74	2.22	2310	1030	2080	0.38	<5	18	297	20	0.67	10	<10
Target Range - Lower Bound		1.61	715	57	1.93	2030	880	1860	0.33	<5	14	260	<20	0.59	<10	<10
Upper Bound		1.99	885	72	2.38	2480	1100	2280	0.43	12	20	320	60	0.74	20	20
GLG912-5																
GLG912-5																
Target Range - Lower Bound																
Upper Bound																
LEA-16																
LEA-16																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		1.37	590	14	2.00	702	1070	1080	0.31	<5	12	309	20	0.50	<10	<10
Target Range - Lower Bound		1.17	497	12	1.76	621	930	969	0.27	<5	10	276	<20	0.44	<10	<10
Upper Bound		1.45	619	18	2.18	761	1160	1190	0.35	15	15	340	60	0.56	20	30
OGGeo08		1.27	508	896	1.84	8710	880	7170	2.71	24	10	252	20	0.40	<10	<10
OGGeo08		1.26	523	893	1.84	8690	860	7280	2.83	27	10	248	20	0.40	<10	<10
Target Range - Lower Bound		1.11	447	841	1.62	8000	760	6510	2.51	16	8	223	<20	0.35	<10	<10
Upper Bound		1.38	557	1030	2.00	9770	950	7970	3.09	38	13	275	60	0.45	20	30
OREAS 601		0.37	485	4	1.47	26	490	343	1.04	31	5	230	<20	0.18	<10	<10
OREAS 601		0.37	494	4	1.43	21	460	336	1.04	28	5	224	<20	0.18	<10	<10
Target Range - Lower Bound		0.34	427	2	1.30	21	410	294	0.95	19	3	206	<20	0.15	<10	<10
Upper Bound		0.44	533	6	1.61	28	530	364	1.19	42	7	254	50	0.21	20	20
OREAS-45e																
OREAS-45e																
OREAS-45e																
OREAS-45e																
Target Range - Lower Bound																
Upper Bound																
PK2																
PK2																
Target Range - Lower Bound																
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Sample Description	Method Analyte Units LOR	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	Au-ICP22 Au ppm 0.001
STANDARDS					
AMIS0282					0.187
AMIS0282					0.186
Target Range - Lower Bound					0.178
Upper Bound					0.202
GBM908-10		141	<10	1100	
Target Range - Lower Bound		123	<10	939	
Upper Bound		153	20	1155	
GLG912-5					0.214
GLG912-5					0.213
Target Range - Lower Bound					0.210
Upper Bound					0.239
LEA-16					0.492
LEA-16					0.490
Target Range - Lower Bound					0.470
Upper Bound					0.532
MRGeo08		109	<10	817	
Target Range - Lower Bound		97	<10	722	
Upper Bound		121	30	886	
OGGeo08		88	<10	7160	
OGGeo08		86	<10	7240	
Target Range - Lower Bound		77	<10	6500	
Upper Bound		97	20	7950	
OREAS 601		26	<10	1340	
OREAS 601		25	10	1330	
Target Range - Lower Bound		22	<10	1195	
Upper Bound		29	30	1465	
OREAS-45e					0.052
OREAS-45e					0.049
OREAS-45e					0.050
OREAS-45e					0.049
Target Range - Lower Bound					0.049
Upper Bound					0.057
PK2					4.83
PK2					4.51
Target Range - Lower Bound					4.50
Upper Bound					5.07



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BLANK																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	<1	<1	1	<0.01	<10	<0.01	<10
BLANK		<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	1	<1	2	<0.01	<10	<0.01	<10
BLANK		<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	<1	<1	1	<0.01	<10	<0.01	<10
Target Range - Lower Bound		<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10	<0.01	<10
Upper Bound		1.0	0.02	10	20	1.0	4	0.02	1.0	2	2	2	0.02	20	0.02	20
DUPLICATES																
MH21765		0.6	5.01	<5	10	1.1	2	0.13	0.5	<1	12	207	0.22	10	4.54	<10
DUP		0.7	4.87	5	10	1.1	<2	0.13	0.6	<1	13	194	0.21	10	4.42	<10
Target Range - Lower Bound		<0.5	4.68	<5	<10	<0.5	<2	0.11	<0.5	<1	11	192	0.19	<10	4.25	<10
Upper Bound		1.0	5.20	10	20	1.7	4	0.15	1.0	2	14	209	0.24	20	4.71	20
MH21785		<0.5	9.49	<5	740	3.6	2	0.21	<0.5	12	56	5	3.66	30	4.07	40
DUP		<0.5	10.20	<5	790	3.8	2	0.22	<0.5	15	60	6	3.94	30	4.36	40
Target Range - Lower Bound		<0.5	9.34	<5	720	3.0	<2	0.19	<0.5	12	54	4	3.60	20	3.99	30
Upper Bound		1.0	10.35	10	810	4.4	4	0.24	1.0	15	62	7	4.00	40	4.44	50
MH21797																
DUP																
Target Range - Lower Bound																
Upper Bound																
MH21800		<0.5	5.23	<5	670	1.9	<2	0.36	<0.5	5	28	2	1.94	20	2.56	40
DUP		<0.5	5.23	<5	660	1.9	3	0.36	<0.5	6	27	2	1.91	10	2.56	40
Target Range - Lower Bound		<0.5	4.96	<5	620	1.3	<2	0.33	<0.5	4	25	<1	1.82	<10	2.42	30
Upper Bound		1.0	5.50	10	710	2.5	4	0.39	1.0	7	30	3	2.03	20	2.70	50
MH21820		<0.5	9.59	<5	680	4.0	4	0.17	<0.5	13	57	26	3.72	30	4.86	30
DUP		<0.5	9.36	<5	650	4.1	6	0.17	<0.5	13	54	22	3.63	20	4.69	40
Target Range - Lower Bound		<0.5	8.99	<5	620	3.3	3	0.15	<0.5	11	52	22	3.48	<10	4.53	20
Upper Bound		1.0	9.96	10	710	4.8	7	0.19	1.0	15	59	26	3.87	40	5.02	50



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Sample Description	Method Analyte Units LOR	ME-ICP61 Mg %	ME-ICP61 Mn ppm	ME-ICP61 Mo ppm	ME-ICP61 Na %	ME-ICP61 Ni ppm	ME-ICP61 P ppm	ME-ICP61 Pb ppm	ME-ICP61 S %	ME-ICP61 Sb ppm	ME-ICP61 Sc ppm	ME-ICP61 Sr ppm	ME-ICP61 Th ppm	ME-ICP61 Ti %	ME-ICP61 Tl ppm	ME-ICP61 U ppm
		0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10	10
BLANKS																
BLANK																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<5	<1	<1	<20	<0.01	<10	<10
BLANK		<0.01	<5	2	<0.01	1	<10	4	<0.01	<5	<1	<1	<20	<0.01	<10	<10
BLANK		<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<5	<1	<1	<20	<0.01	<10	<10
Target Range - Lower Bound		<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<5	<1	<1	<20	<0.01	<10	<10
Upper Bound		0.02	10	2	0.02	2	20	4	0.02	10	2	2	40	0.02	20	20
DUPLICATES																
MH21765		0.04	46	1	1.23	11	480	25	0.06	<5	<1	21	<20	0.02	10	<10
DUP		0.04	44	<1	1.19	8	490	25	0.06	<5	<1	20	<20	0.02	10	<10
Target Range - Lower Bound		0.03	38	<1	1.14	8	450	22	0.05	<5	<1	18	<20	<0.01	<10	<10
Upper Bound		0.05	52	2	1.28	11	520	28	0.07	10	2	23	40	0.03	20	20
MH21785		1.07	540	<1	0.86	30	570	20	<0.01	<5	12	25	20	0.31	<10	<10
DUP		1.15	576	<1	0.93	32	600	15	<0.01	<5	13	27	20	0.33	10	<10
Target Range - Lower Bound		1.04	525	<1	0.84	28	550	15	<0.01	<5	11	24	<20	0.29	<10	<10
Upper Bound		1.18	591	2	0.95	34	620	20	0.02	10	14	28	40	0.35	20	20
MH21797																
DUP																
Target Range - Lower Bound																
Upper Bound																
MH21800		0.41	340	<1	0.91	12	390	12	<0.01	<5	6	57	20	0.21	<10	<10
DUP		0.41	332	<1	0.90	10	380	11	<0.01	<5	5	56	20	0.20	<10	<10
Target Range - Lower Bound		0.38	314	<1	0.85	9	360	9	<0.01	<5	4	53	<20	0.18	<10	<10
Upper Bound		0.44	358	2	0.96	13	410	14	0.02	10	7	60	40	0.23	20	20
MH21820		0.91	372	<1	0.58	27	500	28	<0.01	<5	12	25	20	0.30	<10	<10
DUP		0.90	366	1	0.56	28	500	24	0.01	<5	12	24	20	0.29	<10	<10
Target Range - Lower Bound		0.85	346	<1	0.53	25	470	23	<0.01	<5	10	22	<20	0.27	<10	<10
Upper Bound		0.96	392	2	0.61	30	540	29	0.02	10	14	27	40	0.32	20	20



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Sample Description	Method Analyte Units LOR	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	Au-ICP22 Au ppm 0.001
BLANKS					
BLANK					<0.001
BLANK					<0.001
BLANK					<0.001
BLANK					<0.001
Target Range - Lower Bound					<0.001
Upper Bound					0.002
BLANK		<1	<10	<2	
BLANK		<1	<10	2	
BLANK		<1	<10	<2	
Target Range - Lower Bound		<1	<10	<2	
Upper Bound		2	20	4	
DUPLICATES					
MH21765		3	<10	314	
DUP		3	<10	303	
Target Range - Lower Bound		2	<10	291	
Upper Bound		4	20	326	
MH21785		59	<10	66	
DUP		65	<10	70	
Target Range - Lower Bound		58	<10	63	
Upper Bound		66	20	73	
MH21797					0.001
DUP					<0.001
Target Range - Lower Bound					<0.001
Upper Bound					0.002
MH21800		27	<10	39	
DUP		27	<10	38	
Target Range - Lower Bound		25	<10	35	
Upper Bound		29	20	42	
MH21820		59	<10	85	
DUP		57	<10	83	
Target Range - Lower Bound		54	<10	78	
Upper Bound		62	20	90	



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MH21833 DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
MH21835 DUP Target Range - Lower Bound Upper Bound		<0.5 <0.5 <0.5 1.0	6.58 6.11 6.02 6.67	<5 <5 <5 10	460 430 410 480	2.9 2.8 2.2 3.5	<2 <2 <2 4	0.36 0.33 0.32 0.37	<0.5 <0.5 <0.5 1.0	9 8 7 10	40 38 36 42	20 17 17 20	2.93 2.74 2.68 2.99	20 20 <10 30	2.84 2.61 2.58 2.87	30 30 20 40
MH21855 DUP Target Range - Lower Bound Upper Bound		<0.5 <0.5 <0.5 1.0	7.90 7.90 7.50 8.31	5 6 <5 10	630 630 590 670	3.4 3.5 2.8 4.1	4 3 <2 4	0.23 0.22 0.20 0.25	<0.5 <0.5 <0.5 1.0	11 11 9 13	48 48 45 51	202 203 194 211	3.16 3.18 3.00 3.34	20 20 <10 30	3.80 3.88 3.64 4.04	30 30 20 40
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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Sample Description	Method Analyte Units LOR	ME-ICP61 Mg %	ME-ICP61 Mn ppm	ME-ICP61 Mo ppm	ME-ICP61 Na %	ME-ICP61 Ni ppm	ME-ICP61 P ppm	ME-ICP61 Pb ppm	ME-ICP61 S %	ME-ICP61 Sb ppm	ME-ICP61 Sc ppm	ME-ICP61 Sr ppm	ME-ICP61 Th ppm	ME-ICP61 Ti %	ME-ICP61 Tl ppm	ME-ICP61 U ppm
		0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10	10
MH21833 DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
MH21835 DUP Target Range - Lower Bound Upper Bound		0.67 0.62 0.60 0.69	471 431 423 479	<1 <1 <1 2	1.10 1.03 1.00 1.13	19 17 16 20	420 380 370 430	52 49 46 55	0.01 0.01 <0.01 0.02	<5 <5 <5 10	9 8 7 10	65 62 59 68	20 20 <20 40	0.29 0.26 0.25 0.30	<10 <10 <10 20	<10 <10 <10 20
MH21855 DUP Target Range - Lower Bound Upper Bound		0.76 0.76 0.71 0.81	457 466 433 490	<1 <1 <1 2	0.94 0.94 0.88 1.00	24 23 21 26	460 460 430 490	37 39 34 42	0.06 0.05 0.04 0.07	<5 <5 <5 10	10 10 9 12	42 42 39 45	20 20 <20 40	0.28 0.28 0.26 0.30	<10 <10 <10 20	<10 <10 <10 20
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																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																



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QC CERTIFICATE OF ANALYSIS AD17111732

Sample Description	Method Analyte Units LOR	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	Au-ICP22 Au ppm 0.001
DUPLICATES					
MH21833 DUP					0.001 0.001
Target Range - Lower Bound					<0.001
Upper Bound					0.002
MH21835 DUP		42 40	<10 <10	119 109	
Target Range - Lower Bound		38	<10	106	
Upper Bound		44	20	122	
MH21855 DUP		49 48	<10 <10	97 98	
Target Range - Lower Bound		45	<10	91	
Upper Bound		52	20	104	
ORIGINAL DUP					0.002 0.002
Target Range - Lower Bound					<0.001
Upper Bound					0.003
ORIGINAL DUP					<0.001 0.001
Target Range - Lower Bound					<0.001
Upper Bound					0.002
ORIGINAL DUP					<0.001 0.001
Target Range - Lower Bound					<0.001
Upper Bound					0.002
ORIGINAL DUP					0.004 0.010
Target Range - Lower Bound					0.006
Upper Bound					0.008
ORIGINAL DUP					0.001 0.002
Target Range - Lower Bound					<0.001
Upper Bound					0.002



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QC CERTIFICATE OF ANALYSIS AD17111732

CERTIFICATE COMMENTS

ACCREDITATION COMMENTS

Applies to Method:

NATA Accredited. Corporate Accreditation No: 825, Corporate Site No: 23001. The Technical Signatory is Wendy Wong, Senior QC Chemist.
Au-ICP22 ME-ICP61

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Perth located at 31 Denninup Way, Malaga, Australia. NATA Accreditation does not cover the performance of ALS Perth Sample Preparation which is processed at 79 Distinction Road, Wangara, WA, Australia
Au-ICP22 ME-ICP61

Applies to Method:

Processed at ALS Adelaide located at Unit 1, 1 Burma Road, Pooraka, Adelaide, SA, Australia.
BAG-01 LEV-01 LOG-22
PUL-23 PUL-QC SPL-21

LOG-24
WEI-21