



Australian Laboratory Services Pty. Ltd.

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No: 825, Corporate Site No: 23001.

QC CERTIFICATE AD17084116

Project: MH04

P.O. No.: 338154

This report is for 81 Percussion samples submitted to our lab in Adelaide, SA,
Australia on 2-MAY-2017.

The following have access to data associated with this certificate:

PAUL BURTON

KIM GREY

CATH WETHERBY

To: TODD RIVER METALS
ATTN: KIM GREY
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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Finalized Date: 15-MAY-2017

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SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
PUL-QC	Pulverizing QC Test
LOG-24	Pulp Login - Rcd w/o Barcode
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 AD17084116

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	6.80	51	1100	1.4	2	3.80	2.1	27	135	3520	5.54	20	2.08	50
GBM908-10		3.6	6.82	56	1110	1.4	<2	3.82	1.7	27	140	3550	5.54	20	2.10	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																
Target Range - Lower Bound																
Upper Bound																
LEA-16																
LEA-16																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		4.6	7.89	35	1170	3.4	<2	2.86	2.4	22	96	649	4.17	20	3.35	30
MRGeo08		4.4	7.40	34	1100	3.2	2	2.66	2.5	20	91	610	3.91	20	3.18	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		20.2	6.63	118	800	2.9	7	2.25	19.4	99	87	8500	5.49	20	2.95	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		49.3	6.14	320	1440	2.0	21	1.33	8.0	6	38	964	2.42	20	2.09	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																
Target Range - Lower Bound																
Upper Bound																
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
		Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	U
		%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
		0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10
STANDARDS															
AMIS0282															
AMIS0282															
Target Range - Lower Bound															
Upper Bound															
GBM908-10		1.81	800	58	2.13	2180	1010	1990	0.37	<5	17	286	20	0.65	<10
GBM908-10		1.83	804	54	2.14	2160	1000	2050	0.38	<5	17	288	20	0.66	<10
Target Range - Lower Bound		1.61	715	57	1.93	2030	880	1860	0.33	<5	14	260	<20	0.59	<10
Upper Bound		1.99	885	72	2.38	2480	1100	2280	0.43	12	20	320	60	0.74	20
GLG912-5															
Target Range - Lower Bound															
Upper Bound															
LEA-16															
LEA-16															
Target Range - Lower Bound															
Upper Bound															
MRGeo08		1.44	603	15	2.10	732	1140	1120	0.32	<5	13	326	20	0.52	<10
MRGeo08		1.34	557	15	1.97	685	1080	1050	0.30	7	12	305	20	0.49	<10
Target Range - Lower Bound		1.17	497	12	1.76	621	930	969	0.27	<5	10	276	<20	0.44	<10
Upper Bound		1.45	619	18	2.18	761	1160	1190	0.35	15	15	340	60	0.56	20
OGGeo08		1.27	518	909	1.86	8770	880	7260	2.85	24	10	251	20	0.40	<10
Target Range - Lower Bound		1.11	447	841	1.62	8000	760	6510	2.51	16	8	223	<20	0.35	<10
Upper Bound		1.38	557	1030	2.00	9770	950	7970	3.09	38	13	275	60	0.45	20
OREAS 601		0.37	484	3	1.42	21	470	330	1.07	34	5	225	<20	0.18	<10
Target Range - Lower Bound		0.34	427	2	1.30	21	410	294	0.95	19	3	206	<20	0.15	<10
Upper Bound		0.44	533	6	1.61	28	530	364	1.19	42	7	254	50	0.21	20
OREAS-45e															
OREAS-45e															
OREAS-45e															
Target Range - Lower Bound															
Upper Bound															
PK2															
Target Range - Lower Bound															
Upper 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					0.192
AMIS0282					0.196
Target Range - Lower Bound					0.178
Upper Bound					0.202
GBM908-10		133	<10	1020	
GBM908-10		135	<10	1070	
Target Range - Lower Bound		123	<10	939	
Upper Bound		153	20	1155	
GLG912-5					0.219
Target Range - Lower Bound					0.210
Upper Bound					0.239
LEA-16					0.483
LEA-16					0.498
Target Range - Lower Bound					0.470
Upper Bound					0.532
MRGeo08		111	<10	833	
MRGeo08		105	<10	767	
Target Range - Lower Bound		97	<10	722	
Upper Bound		121	30	886	
OGGeo08		86	<10	7220	
Target Range - Lower Bound		77	<10	6500	
Upper Bound		97	20	7950	
OREAS 601		25	<10	1310	
Target Range - Lower Bound		22	<10	1195	
Upper Bound		29	30	1465	
OREAS-45e					0.052
OREAS-45e					0.054
OREAS-45e					0.051
Target Range - Lower Bound					0.049
Upper Bound					0.057
PK2					5.05
Target Range - Lower Bound					4.50
Upper Bound					5.07



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BLANKS																
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	<1	<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																
MH20557		<0.5	7.64	14	590	2.7	<2	0.25	<0.5	11	51	21	3.24	20	3.68	40
DUP		<0.5	8.14	18	620	2.9	<2	0.26	<0.5	13	54	22	3.45	20	3.99	40
Target Range - Lower Bound		<0.5	7.49	10	560	2.2	<2	0.23	<0.5	10	49	20	3.17	<10	3.63	30
Upper Bound		1.0	8.29	22	650	3.4	4	0.28	1.0	14	56	23	3.52	30	4.04	50
MH20587		<0.5	10.35	7	780	3.8	<2	0.12	<0.5	15	67	2	4.44	30	5.40	20
DUP		<0.5	10.45	<5	800	3.9	2	0.12	<0.5	14	69	2	4.55	30	5.62	20
Target Range - Lower Bound		<0.5	9.87	<5	740	3.2	<2	0.10	<0.5	13	64	<1	4.26	20	5.22	<10
Upper Bound		1.0	10.95	10	840	4.5	4	0.14	1.0	16	72	3	4.73	40	5.80	30
MH20602		<0.5	4.63	<5	570	1.6	<2	0.21	<0.5	8	40	30	3.20	10	2.00	30
DUP		<0.5	4.62	<5	570	1.6	<2	0.21	<0.5	8	40	27	3.20	10	2.02	30
Target Range - Lower Bound		<0.5	4.38	<5	530	1.0	<2	0.19	<0.5	7	37	27	3.03	<10	1.90	20
Upper Bound		1.0	4.87	10	610	2.2	4	0.23	1.0	9	43	30	3.37	20	2.12	40
MH20622		<0.5	5.75	<5	160	2.4	4	0.32	<0.5	5	21	79	1.87	20	2.35	10
DUP		<0.5	5.69	<5	160	2.4	6	0.32	<0.5	4	21	76	1.87	20	2.35	10
Target Range - Lower Bound		<0.5	5.42	<5	140	1.8	3	0.29	<0.5	3	19	74	1.77	<10	2.22	<10
Upper Bound		1.0	6.02	10	180	3.0	7	0.35	1.0	6	23	81	1.97	30	2.48	20
MH20661		<0.5	6.14	<5	390	2.5	<2	0.52	<0.5	6	41	38	2.48	20	2.75	30
DUP		<0.5	6.11	<5	390	2.5	<2	0.52	<0.5	6	40	39	2.48	20	2.78	30
Target Range - Lower Bound		<0.5	5.81	<5	360	1.9	<2	0.48	<0.5	5	37	36	2.35	<10	2.62	20
Upper Bound		1.0	6.44	10	420	3.1	4	0.56	1.0	7	44	41	2.61	30	2.91	40



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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																
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	<1	<0.01	<1	<10	<2	<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																
MH20557		0.79	397	5	0.57	31	450	9	0.01	<5	10	48	20	0.26	<10	<10
DUP		0.85	420	6	0.61	36	480	12	0.01	<5	11	50	20	0.28	<10	<10
Target Range - Lower Bound		0.77	383	4	0.55	31	430	8	<0.01	<5	9	46	<20	0.25	<10	<10
Upper Bound		0.87	434	7	0.63	36	500	13	0.02	10	12	52	40	0.29	20	20
MH20587		0.99	733	2	0.54	33	540	8	0.01	<5	14	24	<20	0.31	<10	<10
DUP		1.00	735	1	0.57	34	550	11	0.01	<5	14	26	<20	0.32	<10	10
Target Range - Lower Bound		0.94	692	<1	0.52	31	510	7	<0.01	<5	12	23	<20	0.29	<10	<10
Upper Bound		1.05	776	2	0.59	36	580	12	0.02	10	16	27	40	0.34	20	20
MH20602		0.57	503	4	0.33	17	360	6	0.01	<5	6	26	<20	0.17	<10	<10
DUP		0.58	508	5	0.33	14	380	5	0.01	<5	6	26	<20	0.18	<10	<10
Target Range - Lower Bound		0.54	475	3	0.30	14	340	3	<0.01	<5	5	24	<20	0.16	<10	<10
Upper Bound		0.61	536	6	0.36	17	400	8	0.02	10	7	28	40	0.19	20	20
MH20622		0.22	614	4	1.54	5	450	24	0.01	<5	4	32	<20	0.08	<10	10
DUP		0.22	628	4	1.53	5	440	24	0.01	<5	4	32	<20	0.08	<10	10
Target Range - Lower Bound		0.20	585	3	1.45	4	410	21	<0.01	<5	3	29	<20	0.07	<10	<10
Upper Bound		0.24	657	5	1.62	6	480	27	0.02	10	5	35	40	0.09	20	20
MH20661		0.45	422	3	1.43	13	470	24	0.01	<5	6	58	<20	0.19	<10	<10
DUP		0.45	421	4	1.42	14	460	24	0.01	<5	6	58	<20	0.19	<10	10
Target Range - Lower Bound		0.42	395	2	1.34	12	430	21	<0.01	<5	5	54	<20	0.17	<10	<10
Upper Bound		0.48	448	5	1.51	15	500	27	0.02	10	7	62	40	0.21	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
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					
MH20557		52	<10	101	
DUP		57	<10	109	
Target Range - Lower Bound		51	<10	98	
Upper Bound		58	20	112	
MH20587		69	<10	73	<0.001
DUP		71	<10	76	<0.001
Target Range - Lower Bound		66	<10	69	<0.001
Upper Bound		75	20	80	0.002
MH20602		28	<10	44	
DUP		28	<10	42	
Target Range - Lower Bound		26	<10	39	
Upper Bound		30	20	47	
MH20622		8	<10	48	
DUP		8	<10	47	
Target Range - Lower Bound		7	<10	43	
Upper Bound		9	20	52	
MH20661		27	<10	83	
DUP		27	<10	84	
Target Range - Lower Bound		25	<10	77	
Upper Bound		29	20	90	



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DUPLICATES																
MH20693		<0.5	5.32	5	570	2.1	<2	0.26	<0.5	6	37	7	2.33	10	1.97	40
DUP		<0.5	5.11	<5	550	2.0	<2	0.25	<0.5	6	36	7	2.24	10	1.88	40
Target Range - Lower Bound		<0.5	4.94	<5	520	1.4	<2	0.23	<0.5	5	34	6	2.16	<10	1.82	30
Upper Bound		1.0	5.49	10	600	2.7	4	0.28	1.0	7	39	8	2.41	20	2.03	50
MH20701																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																



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Finalized Date: 15-MAY-2017
Account: TODRIV

QC CERTIFICATE OF ANALYSIS AD17084116

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
DUPLICATES																
MH20693		0.51	414	2	1.37	16	450	17	<0.01	<5	6	64	20	0.21	<10	<10
DUP		0.49	397	2	1.31	13	430	17	<0.01	<5	6	62	20	0.20	<10	<10
Target Range - Lower Bound		0.47	380	<1	1.26	13	410	14	<0.01	<5	5	59	<20	0.18	<10	<10
Upper Bound		0.54	431	3	1.42	16	470	20	0.02	10	7	67	40	0.23	20	20
MH20701																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																



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 No: 825, Corporate Site No: 23001.

Project: MH04

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QC CERTIFICATE OF ANALYSIS	AD17084116
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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
DUPLICATES					
MH20693		29	<10	290	
DUP		28	<10	279	
Target Range - Lower Bound		26	<10	268	
Upper Bound		31	20	301	
MH20701					<0.001
DUP					<0.001
Target Range - Lower Bound					<0.001
Upper Bound					0.002
ORIGINAL					0.005
DUP					0.005
Target Range - Lower Bound					0.004
Upper Bound					0.006



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QC CERTIFICATE OF ANALYSIS AD17084116

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