



Australian Laboratory Services Pty. Ltd.

32 Shand Street
Stafford
Brisbane QLD 4053
Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218
www.alsglobal.com

ALS Perth is a NATA Accredited Testing Laboratory. Corporate Accreditation
No: 825, Corporate Site No: 23001.

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Plus Appendix Pages
Finalized Date: 20-JUL-2017
Account: TODRIV

CERTIFICATE AD17145913

Project: MH23

This report is for 9 Drill Core samples submitted to our lab in Adelaide, SA, Australia on 17-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
LOG-22	Sample login - Rcd w/o BarCode
LOG-24	Pulp Login - Rcd w/o Barcode
PUL-QC	Pulverizing QC Test
CRU-21	Crush entire sample >70% -6 mm
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

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:

Cameron Brosnan, Laboratory Manager, Perth



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CERTIFICATE OF ANALYSIS AD17145913

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	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
MH22587		4.06	<0.5	8.91	14	790	3.9	<2	0.22	<0.5	9	50	3	3.36	20	4.90
MH22588		3.94	<0.5	7.54	18	730	3.5	<2	0.28	<0.5	10	42	38	2.85	20	3.94
MH22589		3.80	<0.5	5.57	6	550	2.6	<2	0.30	<0.5	6	30	2	2.07	10	2.61
MH22590		4.05	<0.5	5.84	<5	530	2.7	<2	0.24	<0.5	6	30	4	2.23	20	2.80
MH22582		0.06	<0.5	15.75	29	50	<0.5	<2	0.02	<0.5	<1	158	6	14.65	50	0.14
MH22583		4.22	<0.5	5.70	9	860	2.2	2	0.28	<0.5	6	30	2	2.08	20	2.77
MH22584		3.36	<0.5	2.93	<5	690	1.3	<2	0.19	<0.5	2	12	16	1.08	10	1.53
MH22585		3.62	<0.5	4.43	<5	840	1.6	3	0.22	<0.5	3	17	3	1.45	10	1.98
MH22586		3.97	<0.5	4.99	<5	620	2.1	4	0.15	<0.5	4	26	22	2.34	10	2.50



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CERTIFICATE OF ANALYSIS AD17145913

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
		La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Ti
		ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
		10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10
MH22587		40	0.90	488	<1	0.42	24	520	22	0.01	<5	11	28	20	0.28	<10
MH22588		40	0.76	395	<1	0.66	22	480	33	0.02	<5	10	44	20	0.28	<10
MH22589		40	0.59	284	<1	0.88	15	430	26	0.01	<5	6	46	20	0.22	<10
MH22590		30	0.73	323	1	0.97	14	450	19	0.01	<5	7	37	20	0.23	<10
MH22582		<10	0.02	342	19	0.01	3	110	11	0.05	<5	9	4	60	0.86	<10
MH22583		40	0.51	407	1	0.97	13	420	67	<0.01	<5	7	55	20	0.23	<10
MH22584		30	0.20	254	<1	0.70	8	260	475	0.05	<5	2	47	20	0.11	<10
MH22585		30	0.33	286	<1	0.97	10	390	163	0.01	<5	4	53	20	0.17	<10
MH22586		40	0.58	411	2	0.72	18	390	272	0.03	<5	6	23	20	0.19	<10



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Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-ICP22	PUL-QC
		U	V	W	Zn	Au	Pass75um
		ppm	ppm	ppm	ppm	ppm	%
		10	1	10	2	0.001	0.01
MH22587		<10	55	10	63	<0.001	
MH22588		<10	46	<10	37	0.001	
MH22589		<10	32	<10	26	<0.001	86.0
MH22590		<10	34	<10	33	<0.001	
MH22582		<10	396	<10	4	0.002	
MH22583		<10	33	<10	59	<0.001	
MH22584		<10	11	<10	149	<0.001	
MH22585		<10	20	<10	74	<0.001	
MH22586		<10	28	<10	97	<0.001	



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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 PUL-QC SPL-21

WEI-21