



Australian Laboratory Services Pty. Ltd.

32 Shand Street  
Stafford  
Brisbane QLD 4053  
Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218  
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No: 825, Corporate Site No: 23001.

## CERTIFICATE AD17083755

Project: MH02

P.O. No.: 338152

This report is for 77 Percussion samples submitted to our lab in Adelaide, SA,  
Australia on 2-MAY-2017.

The following have access to data associated with this certificate:

KIM GREY

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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## SAMPLE PREPARATION

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

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Cu-OG62	Ore Grade Cu - Four Acid	ICP-AES
Au-ICP22	Au 50g FA ICP-AES finish	ICP-AES
ME-ICP61	33 element four acid ICP-AES	ICP-AES
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES

Signature:

Cameron Brosnan, Laboratory Manager, Perth



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## CERTIFICATE OF ANALYSIS AD17083755

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	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
MH20236		0.41		<0.5	6.67	15	700	2.8	3	0.18	<0.5	8	41	89	3.03	20
MH20241		0.90		<0.5	5.45	<5	430	1.7	<2	0.38	<0.5	5	27	27	2.21	10
MH20246		2.38		<0.5	9.72	<5	620	4.4	<2	0.19	<0.5	13	60	11	4.14	30
MH20250		0.05		3.3	7.39	57	1140	1.4	3	3.90	1.9	27	146	3880	5.68	20
MH20252		2.23	91.0	<0.5	5.90	<5	470	2.0	2	0.36	<0.5	6	32	13	2.24	20
MH20257		1.39		<0.5	5.24	<5	430	1.7	2	0.34	<0.5	5	26	29	1.95	10
MH20262		2.87		<0.5	5.75	<5	500	2.0	2	0.34	<0.5	6	36	7	2.10	10
MH20267		1.48		<0.5	6.89	<5	390	2.6	2	0.36	<0.5	8	44	10	2.77	20
MH20272		2.29		<0.5	5.68	<5	340	2.2	3	0.35	<0.5	6	30	7	2.15	10
MH20278		2.12		<0.5	6.43	<5	390	2.4	<2	0.33	<0.5	7	37	8	2.46	20
MH20283		2.33		<0.5	10.15	<5	680	3.9	3	0.16	<0.5	13	59	19	3.70	30
MH20288		2.55		<0.5	6.21	<5	410	2.2	<2	0.29	<0.5	6	36	9	2.28	20
MH20293		2.04		<0.5	5.35	<5	430	3.2	<2	0.36	<0.5	5	31	3	2.06	10
MH20299		2.51		<0.5	5.88	<5	260	2.1	<2	0.31	<0.5	2	18	3	1.52	20
MH20300		0.06		<0.5	16.35	17	50	<0.5	3	0.02	<0.5	<1	148	7	14.55	50
MH20305		2.08		<0.5	10.95	<5	830	4.0	2	0.16	<0.5	10	65	4	3.94	30
MH20309		2.15		<0.5	8.07	<5	600	2.6	<2	0.18	<0.5	10	51	35	3.33	20
MH20314		1.94		<0.5	6.82	<5	680	2.4	<2	0.36	<0.5	7	44	3	2.70	20
MH20319		2.63		<0.5	7.41	<5	600	3.0	<2	0.34	<0.5	8	43	3	2.75	20
MH20324		1.94		0.5	8.72	<5	290	4.6	2	0.27	<0.5	4	25	169	1.97	30
MH20325		0.05		<0.5	5.68	32	30	1.0	<2	1.69	<0.5	26	44	41	2.60	10
MH20330		0.45		<0.5	8.34	<5	590	3.6	<2	0.32	<0.5	10	47	3	3.16	20
MH20335		2.01		<0.5	6.41	<5	420	2.7	<2	0.44	<0.5	7	44	15	2.62	20
MH20340		1.24		<0.5	8.46	<5	700	3.6	3	0.30	<0.5	9	48	2	3.20	20
MH20341		1.30		<0.5	9.46	<5	740	3.1	<2	0.45	<0.5	10	62	12	3.89	30
MH20342		1.43		<0.5	10.35	13	780	3.5	<2	0.17	<0.5	13	67	5	4.24	30
MH20343		2.04		<0.5	10.20	49	740	3.9	<2	0.14	<0.5	17	66	7	4.24	30
MH20344		1.94		<0.5	10.05	<5	710	4.1	<2	0.20	<0.5	12	63	8	4.11	30
MH20345		2.12		<0.5	5.70	<5	380	2.3	<2	0.34	<0.5	7	38	15	2.38	10
MH20346		1.68		<0.5	7.19	7	540	2.5	4	0.31	<0.5	9	46	12	2.88	20
MH20347		1.72		<0.5	8.45	5	670	3.0	<2	0.26	<0.5	11	52	4	3.30	20
MH20348		1.35		<0.5	4.72	<5	400	2.0	<2	0.35	<0.5	5	31	7	1.95	10
MH20349		2.00		<0.5	4.86	<5	480	1.7	<2	0.35	<0.5	5	32	4	1.95	10
MH20350		0.05		0.5	4.90	8	10	1.1	<2	0.13	0.7	<1	12	202	0.21	10
MH20351		1.41		<0.5	5.55	<5	600	1.7	2	0.32	<0.5	5	37	3	2.24	10
MH20352		2.12		<0.5	6.07	<5	490	1.9	<2	0.27	<0.5	6	34	5	2.05	20
MH20353		2.08		<0.5	7.40	<5	730	2.6	<2	0.30	<0.5	10	47	3	3.04	20
MH20354		2.63		<0.5	6.39	<5	610	2.3	<2	0.32	<0.5	9	40	5	2.59	20
MH20355		1.47		<0.5	5.36	<5	460	2.5	<2	0.40	<0.5	6	31	4	2.14	10
MH20356		1.64		<0.5	8.73	<5	780	3.0	<2	0.25	<0.5	12	58	2	3.88	20



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## CERTIFICATE OF ANALYSIS AD17083755

Sample Description	Method Analyte Units LOR	ME-ICP61 K %	ME-ICP61 La ppm	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 %
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
MH20236		2.51	30	0.48	347	1	0.30	20	180	51	0.01	<5	7	39	20	0.22
MH20241		1.70	30	0.53	363	1	1.03	16	350	17	0.01	<5	5	50	20	0.18
MH20246		4.13	40	1.00	527	<1	0.50	35	540	26	<0.01	<5	13	36	20	0.32
MH20250		2.13	50	1.86	818	59	2.23	2410	1010	2140	0.40	<5	18	309	20	0.67
MH20252		2.01	40	0.52	288	<1	1.23	18	440	15	<0.01	<5	7	59	20	0.24
MH20257		1.84	40	0.44	257	<1	1.09	14	430	13	0.01	<5	5	57	20	0.20
MH20262		2.10	30	0.53	291	<1	1.17	19	410	8	<0.01	<5	6	55	20	0.23
MH20267		2.76	40	0.70	443	1	0.73	22	470	17	<0.01	<5	8	46	20	0.25
MH20272		2.06	40	0.56	349	1	0.94	17	430	14	<0.01	<5	6	52	20	0.22
MH20278		2.43	40	0.66	318	<1	0.91	20	440	13	<0.01	6	7	47	20	0.25
MH20283		4.33	40	0.96	374	<1	0.64	36	480	15	<0.01	<5	13	28	20	0.32
MH20288		2.29	40	0.60	297	1	0.94	19	470	15	<0.01	<5	7	42	20	0.21
MH20293		1.89	30	0.47	399	1	1.15	15	490	8	<0.01	<5	6	52	20	0.20
MH20299		1.81	20	0.27	1105	<1	2.05	8	610	19	0.01	<5	6	34	<20	0.12
MH20300		0.13	<10	0.02	321	16	0.02	6	100	15	0.05	<5	10	4	60	0.79
MH20305		4.46	40	0.93	491	<1	0.65	32	500	33	<0.01	<5	14	31	20	0.29
MH20309		3.78	30	0.82	445	<1	0.59	27	440	27	<0.01	<5	10	30	20	0.28
MH20314		2.55	40	0.67	421	1	1.18	22	510	17	<0.01	<5	8	57	20	0.27
MH20319		3.00	40	0.73	452	1	0.91	22	440	17	<0.01	<5	9	42	20	0.25
MH20324		3.18	20	0.38	864	1	1.15	12	1040	33	0.04	<5	9	20	<20	0.11
MH20325		3.51	<10	0.77	337	8	1.48	31	580	37	0.02	<5	8	73	<20	0.29
MH20330		3.24	40	0.81	438	<1	0.91	24	480	22	<0.01	<5	10	44	20	0.26
MH20335		2.48	40	0.59	388	1	0.88	19	470	18	<0.01	<5	7	52	20	0.24
MH20340		3.55	40	0.75	454	2	0.74	23	480	18	<0.01	<5	10	45	20	0.27
MH20341		3.55	60	0.76	597	1	0.98	23	720	26	0.01	<5	12	64	30	0.36
MH20342		4.47	30	0.92	465	1	0.53	34	560	14	0.01	<5	14	31	20	0.32
MH20343		4.64	30	0.96	451	4	0.48	50	520	16	<0.01	<5	13	25	20	0.30
MH20344		4.39	40	0.97	455	<1	0.47	30	570	18	0.01	<5	13	32	20	0.30
MH20345		2.33	40	0.52	372	1	0.65	19	450	19	<0.01	<5	6	44	20	0.22
MH20346		3.10	40	0.66	400	1	0.71	21	530	17	0.01	<5	9	44	20	0.25
MH20347		3.79	50	0.77	444	1	0.74	25	540	14	<0.01	<5	10	38	20	0.27
MH20348		1.58	30	0.39	322	2	1.00	14	370	11	<0.01	<5	5	64	20	0.18
MH20349		1.70	30	0.40	376	2	1.09	12	380	13	<0.01	<5	5	63	20	0.19
MH20350		4.45	<10	0.04	46	<1	1.21	9	480	26	0.06	<5	<1	21	<20	0.02
MH20351		2.24	40	0.46	432	2	1.12	15	430	14	<0.01	<5	6	55	20	0.21
MH20352		2.60	30	0.40	478	3	1.11	15	450	22	<0.01	<5	6	44	20	0.18
MH20353		3.21	40	0.69	514	2	1.02	24	490	12	<0.01	<5	9	48	20	0.26
MH20354		2.52	40	0.56	457	2	1.00	18	460	11	<0.01	<5	7	53	20	0.23
MH20355		2.02	40	0.44	419	1	0.82	15	430	13	<0.01	<5	5	57	20	0.21
MH20356		4.08	40	0.88	641	<1	0.66	28	520	14	<0.01	<5	11	35	20	0.29



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## CERTIFICATE OF ANALYSIS AD17083755

Sample Description	Method Analyte Units LOR	ME-ICP61 Ti ppm 10	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	Cu-OG62 Cu % 0.001	Au-ICP22 Au ppm 0.001
MH20236		<10	<10	55	<10	268		0.002
MH20241		<10	<10	30	<10	46		<0.001
MH20246		<10	<10	64	<10	73		0.001
MH20250		10	<10	142	<10	1070		0.497
MH20252		<10	<10	34	<10	63		<0.001
MH20257		<10	<10	28	<10	45		0.001
MH20262		10	<10	33	<10	32		0.001
MH20267		10	<10	42	<10	76		<0.001
MH20272		10	<10	31	<10	35		<0.001
MH20278		10	<10	39	<10	51		<0.001
MH20283		<10	<10	67	<10	85		0.001
MH20288		<10	<10	36	<10	52		<0.001
MH20293		<10	<10	30	10	47		<0.001
MH20299		<10	10	16	10	59		<0.001
MH20300		<10	<10	380	<10	3		0.001
MH20305		<10	<10	68	<10	117		<0.001
MH20309		10	<10	52	<10	61		0.001
MH20314		10	<10	43	<10	68		0.001
MH20319		10	<10	45	<10	53		0.001
MH20324		<10	10	24	10	78		0.001
MH20325		10	<10	65	<10	56		0.017
MH20330		<10	<10	49	<10	80		<0.001
MH20335		<10	<10	38	<10	54		0.001
MH20340		10	<10	49	<10	82		<0.001
MH20341		<10	<10	58	<10	134		0.001
MH20342		<10	<10	70	<10	122		0.001
MH20343		<10	<10	82	<10	132		0.002
MH20344		<10	<10	65	<10	116		0.001
MH20345		<10	<10	33	<10	58		0.002
MH20346		10	<10	43	<10	73		0.001
MH20347		<10	<10	51	<10	78		0.001
MH20348		10	<10	26	<10	53		0.001
MH20349		<10	<10	25	<10	45		0.001
MH20350		10	<10	3	<10	313		0.366
MH20351		<10	<10	30	<10	45		<0.001
MH20352		<10	<10	26	<10	44		0.001
MH20353		<10	<10	45	<10	58		0.001
MH20354		<10	<10	37	<10	52		<0.001
MH20355		<10	<10	29	<10	41		<0.001
MH20356		10	<10	58	<10	74		0.001



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	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
MH20357		2.06		<0.5	5.40	<5	480	1.9	<2	0.38	<0.5	8	35	3	2.45	10
MH20358		1.84		<0.5	7.11	<5	620	2.5	<2	0.32	<0.5	10	49	3	3.50	20
MH20359		1.38		<0.5	5.44	<5	550	1.8	<2	0.27	<0.5	8	40	5	2.84	20
MH20360		1.59		<0.5	3.71	<5	390	1.0	<2	0.19	<0.5	8	34	6	2.46	10
MH20361		1.25	92.0	<0.5	2.94	<5	320	0.9	<2	0.13	<0.5	7	28	9	2.51	10
MH20362		1.87		<0.5	7.61	12	550	3.3	<2	0.20	<0.5	13	53	21	4.00	20
MH20363		2.20		<0.5	9.72	7	690	4.0	<2	0.22	<0.5	14	61	7	3.93	30
MH20364		2.57		<0.5	8.50	6	560	3.4	<2	0.36	<0.5	14	62	5	4.00	20
MH20365		2.17		<0.5	8.85	5	650	3.5	2	0.30	<0.5	13	62	19	4.32	30
MH20366		1.33		<0.5	6.96	5	530	2.4	16	0.28	<0.5	16	56	128	4.18	20
MH20367		2.05		0.7	7.19	7	610	2.8	2	0.23	<0.5	15	53	1165	3.81	20
MH20368		1.92		8.4	4.98	11	440	1.7	25	0.22	3.4	41	41	>10000	4.71	10
MH20369		2.63		7.6	1.90	29	320	0.5	20	0.07	5.1	48	33	>10000	3.40	<10
MH20370		2.01		5.7	3.19	32	440	0.8	27	0.15	4.6	46	33	>10000	3.76	10
MH20371		2.67		1.7	4.10	5	540	1.2	9	0.21	1.2	16	34	3730	2.84	10
MH20372		2.51		0.7	4.22	5	570	1.0	7	0.23	<0.5	13	36	1600	2.72	10
MH20373		1.01		<0.5	4.74	<5	630	1.3	2	0.26	<0.5	8	29	314	2.60	10
MH20374		2.12		<0.5	4.96	<5	570	1.4	<2	0.27	<0.5	8	45	125	2.92	10
MH20376		2.35		<0.5	4.71	<5	640	1.2	<2	0.26	<0.5	7	37	49	2.49	10
MH20377		1.82		<0.5	5.88	<5	710	1.9	2	0.26	<0.5	9	46	50	3.11	20
MH20378		2.39		<0.5	4.03	<5	440	1.3	<2	0.20	<0.5	7	39	116	2.79	10
MH20379		1.72		<0.5	4.39	<5	510	1.6	<2	0.24	0.8	8	40	125	2.58	10
MH20380		1.90		<0.5	4.66	<5	630	1.3	<2	0.24	<0.5	8	34	21	2.48	10
MH20381		2.08		<0.5	5.54	<5	670	1.8	2	0.28	<0.5	9	41	19	2.65	10
MH20382		1.88		<0.5	6.02	<5	680	2.2	<2	0.28	<0.5	7	44	8	2.70	20
MH20383		2.19		<0.5	5.87	<5	720	1.9	<2	0.30	<0.5	8	42	12	2.91	10
MH20384		1.91		<0.5	5.87	<5	760	1.6	2	0.30	<0.5	8	38	16	2.87	20
MH20385		3.29		<0.5	4.27	<5	630	1.0	<2	0.20	<0.5	7	44	21	2.40	10
MH20386		2.53		<0.5	3.90	<5	480	1.1	<2	0.21	<0.5	6	37	14	2.63	10
MH20387		2.49		<0.5	4.27	<5	520	1.2	<2	0.23	<0.5	7	41	6	2.68	10
MH20388		3.34		<0.5	7.16	5	790	2.6	<2	0.28	<0.5	14	50	7	3.16	20
MH20389		3.22		<0.5	6.15	<5	720	2.2	2	0.29	<0.5	9	45	4	2.77	20
MH20390		2.27		<0.5	4.53	<5	610	1.5	3	0.25	<0.5	5	39	9	2.24	10
MH20391		3.19		<0.5	3.46	<5	480	1.0	<2	0.18	0.5	7	40	36	2.11	10
MH20392		1.47	98.0	<0.5	2.73	<5	440	0.9	2	0.19	<0.5	5	34	19	1.88	10
MH20397		3.92		<0.5	6.42	<5	650	2.5	2	0.32	<0.5	8	46	4	2.85	20
MH20404		2.25		<0.5	5.89	<5	620	2.1	2	0.29	<0.5	7	41	7	2.58	20



Australian Laboratory Services Pty. Ltd.

32 Shand Street  
Stafford  
Brisbane QLD 4053  
Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218  
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Sample Description	Method Analyte Units LOR	ME-ICP61 K %	ME-ICP61 La ppm	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 %
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
MH20357		2.08	40	0.49	516	1	0.71	15	420	9	<0.01	<5	6	50	20	0.20
MH20358		3.04	40	0.72	646	1	0.69	23	450	15	<0.01	<5	9	44	20	0.26
MH20359		2.22	30	0.54	519	2	0.65	18	390	12	<0.01	<5	6	43	20	0.20
MH20360		1.55	20	0.43	457	3	0.38	14	290	11	<0.01	<5	4	32	<20	0.15
MH20361		1.27	20	0.41	511	2	0.23	11	230	11	<0.01	<5	3	16	<20	0.11
MH20362		3.42	40	0.80	635	1	0.49	24	470	19	<0.01	<5	9	26	20	0.23
MH20363		4.15	40	0.89	598	1	0.58	30	550	24	<0.01	<5	12	29	20	0.28
MH20364		3.57	40	0.95	679	1	0.71	32	510	32	<0.01	<5	12	37	20	0.33
MH20365		3.93	40	0.99	737	2	0.71	31	500	43	0.01	<5	12	34	20	0.29
MH20366		3.04	30	0.84	769	2	0.62	26	420	55	0.03	<5	9	30	20	0.27
MH20367		3.05	30	0.78	630	2	0.74	23	440	36	0.10	<5	9	31	20	0.24
MH20368		1.88	30	0.58	562	3	0.81	41	300	78	1.79	<5	6	32	<20	0.16
MH20369		0.73	10	0.24	374	5	0.25	34	140	97	1.73	<5	2	14	<20	0.06
MH20370		1.31	20	0.37	483	3	0.44	30	240	287	1.50	<5	3	27	<20	0.12
MH20371		1.62	30	0.41	494	3	0.67	18	350	157	0.44	<5	4	41	20	0.16
MH20372		1.66	30	0.43	509	3	0.74	16	350	89	0.19	<5	4	43	<20	0.16
MH20373		1.97	30	0.44	487	1	0.78	19	390	33	0.04	<5	5	48	20	0.19
MH20374		2.07	30	0.53	552	3	0.77	18	380	24	0.02	<5	6	42	20	0.21
MH20376		2.07	30	0.43	489	3	0.74	13	370	16	0.01	<5	5	49	20	0.18
MH20377		2.60	30	0.58	583	3	0.74	17	400	16	0.01	<5	7	45	20	0.21
MH20378		1.72	20	0.46	514	3	0.62	13	280	15	0.01	<5	4	34	<20	0.14
MH20379		1.88	20	0.43	450	3	0.66	15	340	16	0.02	<5	5	40	<20	0.16
MH20380		2.26	30	0.42	490	2	0.69	12	380	19	<0.01	<5	5	48	20	0.17
MH20381		2.59	30	0.49	506	2	0.80	17	430	14	<0.01	<5	6	52	20	0.20
MH20382		2.77	40	0.54	482	2	0.81	19	470	15	<0.01	<5	7	52	20	0.22
MH20383		2.77	40	0.54	599	1	0.86	19	450	15	<0.01	<5	6	56	20	0.22
MH20384		2.89	40	0.52	620	1	0.90	17	470	13	0.01	<5	6	58	20	0.23
MH20385		2.24	30	0.40	447	4	0.64	16	340	11	0.01	<5	5	48	20	0.16
MH20386		1.93	30	0.42	575	3	0.52	12	320	8	<0.01	<5	4	42	20	0.15
MH20387		2.12	30	0.45	597	3	0.61	15	370	13	<0.01	<5	4	45	20	0.17
MH20388		3.61	40	0.68	552	7	0.70	25	450	15	<0.01	<5	9	47	20	0.25
MH20389		3.10	40	0.58	497	3	0.76	19	460	13	<0.01	<5	7	53	20	0.24
MH20390		2.36	30	0.41	397	4	0.62	15	360	13	<0.01	<5	5	48	20	0.17
MH20391		1.86	20	0.35	371	7	0.50	13	270	20	0.01	<5	4	34	<20	0.15
MH20392		1.43	20	0.24	300	7	0.44	8	270	32	0.01	<5	3	40	<20	0.10
MH20397		3.06	40	0.62	448	3	0.87	19	470	21	<0.01	<5	8	53	20	0.24
MH20404		2.80	30	0.53	425	3	0.83	17	460	13	<0.01	<5	7	51	20	0.22



Australian Laboratory Services Pty. Ltd.  
 32 Shand Street  
 Stafford  
 Brisbane QLD 4053  
 Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218  
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**CERTIFICATE OF ANALYSIS AD17083755**

Sample Description	Method Analyte Units LOR	ME-ICP61 Ti ppm 10	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	Cu-OG62 Cu % 0.001	Au-ICP22 Au ppm 0.001
MH20357		<10	<10	31	<10	46		<0.001
MH20358		<10	<10	45	<10	73		0.001
MH20359		<10	<10	32	<10	53		0.001
MH20360		<10	<10	23	<10	53		0.001
MH20361		<10	<10	19	<10	62		0.001
MH20362		<10	<10	47	<10	100		<0.001
MH20363		<10	<10	62	<10	101		0.001
MH20364		<10	<10	60	<10	111		0.001
MH20365		<10	<10	63	<10	131		0.001
MH20366		<10	<10	47	<10	312		0.032
MH20367		<10	<10	47	<10	201		0.002
MH20368		<10	<10	30	<10	654	1.510	0.034
MH20369		<10	<10	10	10	1140	1.605	0.025
MH20370		<10	<10	17	<10	1230	1.365	0.028
MH20371		<10	<10	22	<10	437		0.013
MH20372		<10	<10	23	<10	198		0.005
MH20373		<10	<10	26	<10	88		0.001
MH20374		<10	<10	32	<10	85		<0.001
MH20376		<10	<10	27	<10	74		<0.001
MH20377		<10	<10	34	<10	109		<0.001
MH20378		<10	<10	21	<10	147		0.001
MH20379		<10	<10	24	<10	393		0.001
MH20380		<10	<10	24	<10	83		<0.001
MH20381		<10	<10	29	<10	100		<0.001
MH20382		<10	<10	35	<10	63		<0.001
MH20383		10	<10	34	<10	68		<0.001
MH20384		<10	<10	34	<10	72		<0.001
MH20385		<10	<10	24	<10	62		0.004
MH20386		<10	<10	20	<10	72		<0.001
MH20387		<10	<10	22	<10	69		<0.001
MH20388		<10	<10	44	<10	74		<0.001
MH20389		<10	<10	38	<10	58		<0.001
MH20390		<10	<10	25	<10	68		<0.001
MH20391		<10	<10	21	<10	254		0.002
MH20392		10	<10	13	<10	165		0.002
MH20397		<10	<10	41	<10	60		<0.001
MH20404		<10	<10	35	10	64		<0.001



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32 Shand Street

Stafford

Brisbane QLD 4053

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**CERTIFICATE OF ANALYSIS AD17083755**

**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 ME-OG62

**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 Cu-OG62 ME-ICP61 ME-OG62

Applies to Method:

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

PUL-QC