



Australian Laboratory Services Pty. Ltd.

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No: 825, Corporate Site No: 23001.

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Plus Appendix Pages
Finalized Date: 11-JUL-2017
Account: TODRIV

CERTIFICATE AD17129412

Project: MH20

P.O. No.: 338171

This report is for 72 Percussion samples submitted to our lab in Adelaide, SA,
Australia on 27-JUN-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
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
Pb-OG62	Ore Grade Pb - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - 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

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 AD17129412

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
20031		2.30	<0.5	10.30	5	860	4.8	<2	0.16	<0.5	15	62	29	3.99	30	4.76
20032		2.69	<0.5	9.72	<5	870	3.7	<2	0.21	<0.5	12	57	18	3.74	30	4.48
20033		2.20	<0.5	8.51	5	730	2.8	2	0.28	<0.5	10	46	9	3.42	20	3.69
20034		2.07	<0.5	7.10	<5	600	3.1	<2	0.38	1.2	10	43	4	3.26	20	2.72
20035		3.42	<0.5	4.68	<5	390	1.7	<2	0.36	1.9	7	26	4	2.11	10	1.52
20037		1.86	<0.5	5.89	5	480	2.3	<2	0.39	<0.5	8	40	5	2.66	10	2.11
20038		3.41	<0.5	4.75	<5	380	1.9	<2	0.43	<0.5	7	27	7	2.10	10	1.48
20039		3.62	<0.5	4.73	<5	560	1.8	<2	0.34	<0.5	7	26	10	2.02	10	1.67
20040		2.72	<0.5	4.71	<5	550	1.8	<2	0.28	<0.5	5	26	3	2.00	10	1.56
20162		4.19	<0.5	5.97	<5	490	2.4	<2	0.27	<0.5	8	33	2	2.54	20	2.47
20163		4.17	<0.5	6.93	<5	600	2.6	<2	0.33	<0.5	9	43	2	2.98	20	2.88
20164		4.65	<0.5	5.33	<5	460	1.9	<2	0.32	<0.5	7	30	4	2.26	10	2.06
20165		4.03	<0.5	8.17	<5	850	2.8	<2	0.30	<0.5	12	52	192	3.63	20	3.51
20167		3.00	<0.5	4.81	<5	520	1.5	<2	0.30	<0.5	5	26	10	2.08	10	1.81
20168		3.65	0.7	4.79	<5	540	1.9	<2	0.29	<0.5	5	27	135	2.04	10	1.79
20169		3.37	<0.5	5.00	<5	460	1.9	<2	0.28	<0.5	5	27	28	2.11	10	1.86
20170		3.12	<0.5	5.29	<5	480	1.9	<2	0.26	<0.5	7	30	22	2.57	20	2.00
20172		3.73	<0.5	10.80	<5	1110	4.4	<2	0.22	<0.5	14	62	3	4.21	30	4.94
20173		2.89	<0.5	5.48	<5	410	1.8	<2	0.27	<0.5	7	35	3	2.74	10	2.27
20174		3.70	<0.5	5.34	<5	420	2.1	<2	0.31	<0.5	7	31	2	2.58	10	2.09
20175	Not Recvd															
20176		3.65	<0.5	6.94	10	630	2.9	<2	0.31	<0.5	9	41	2	3.03	20	2.82
20178		3.38	4.2	9.23	5	870	4.8	14	0.29	3.1	14	53	313	4.03	30	4.05
20179		5.03	28.1	6.65	<5	540	3.0	100	0.25	32.9	32	40	2750	4.32	20	2.73
20180		2.79	3.1	6.70	<5	600	2.4	14	0.28	0.8	9	41	101	3.30	20	2.91
20181		3.49	1.4	4.85	<5	450	1.7	7	0.26	1.2	7	32	45	2.57	10	1.96
20230		2.24	<0.5	6.29	5	390	2.4	<2	0.41	<0.5	9	42	36	3.21	20	1.99
20231		5.01	<0.5	6.35	<5	470	2.3	<2	0.40	<0.5	9	45	6	3.26	20	2.08
20232		3.54	<0.5	5.30	<5	540	1.7	<2	0.35	<0.5	7	35	4	2.72	20	1.78
20233		4.49	<0.5	4.55	<5	500	1.5	2	0.29	<0.5	6	30	14	2.20	10	1.33
20234		4.13	0.7	3.57	<5	460	1.0	36	0.16	<0.5	8	24	509	1.89	10	1.04
21082		3.74	<0.5	5.54	<5	540	2.2	<2	0.39	<0.5	7	34	5	2.26	10	1.91
21228		3.40	<0.5	9.73	<5	840	3.4	<2	0.72	<0.5	11	55	28	3.42	30	4.68
21234		1.62	<0.5	9.41	<5	880	3.2	<2	0.44	<0.5	12	53	66	3.39	30	4.69
21235	Not Recvd															
21236	Not Recvd															
21237		1.88	<0.5	6.68	<5	560	2.4	<2	0.26	<0.5	7	37	7	2.46	20	3.19
21238		2.42	<0.5	9.00	<5	820	3.2	<2	0.27	<0.5	10	53	4	3.47	20	4.52
21272		2.32	<0.5	7.29	<5	740	3.0	<2	0.28	<0.5	9	40	5	2.65	20	3.37
21273	Not Recvd															



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Sample Description	Method Analyte Units LOR	ME-ICP61 La ppm 10	ME-ICP61 Mg % 0.01	ME-ICP61 Mn ppm 5	ME-ICP61 Mo ppm 1	ME-ICP61 Na % 0.01	ME-ICP61 Ni ppm 1	ME-ICP61 P ppm 10	ME-ICP61 Pb ppm 2	ME-ICP61 S % 0.01	ME-ICP61 Sb ppm 5	ME-ICP61 Sc ppm 1	ME-ICP61 Sr ppm 1	ME-ICP61 Th ppm 20	ME-ICP61 Ti % 0.01	ME-ICP61 Tl ppm 10
20031		40	0.96	532	<1	0.59	34	560	63	0.01	<5	13	29	20	0.29	<10
20032		40	0.94	512	1	0.53	30	540	65	0.01	<5	12	32	20	0.29	<10
20033		40	0.84	501	<1	0.76	28	530	68	<0.01	<5	10	36	20	0.29	10
20034		40	0.72	680	<1	1.14	23	500	103	<0.01	<5	9	53	20	0.30	<10
20035		30	0.43	555	1	0.95	15	390	71	<0.01	<5	5	50	20	0.18	<10
20037		30	0.58	420	2	1.14	20	430	80	0.02	<5	7	56	20	0.24	<10
20038		30	0.45	360	1	1.24	15	390	78	<0.01	<5	5	69	20	0.19	<10
20039		30	0.42	346	1	0.97	14	400	70	<0.01	<5	5	54	20	0.19	<10
20040		40	0.40	462	1	1.08	14	420	61	<0.01	<5	5	49	20	0.19	<10
20162		40	0.58	483	2	0.83	18	470	46	<0.01	<5	7	36	20	0.23	<10
20163		40	0.73	594	<1	1.01	23	490	54	<0.01	<5	9	44	20	0.28	<10
20164		40	0.51	466	1	0.94	15	410	58	<0.01	<5	6	46	20	0.22	<10
20165		40	0.88	659	2	1.01	28	530	97	0.03	<5	10	48	20	0.32	<10
20167		30	0.43	411	2	0.88	13	380	144	0.01	<5	5	49	20	0.18	<10
20168		30	0.42	413	1	0.88	15	390	86	0.01	<5	5	49	20	0.18	<10
20169		30	0.45	425	1	0.94	15	400	79	0.01	<5	5	46	20	0.19	<10
20170		30	0.47	414	1	0.95	15	440	72	0.01	<5	5	43	20	0.19	<10
20172		40	1.08	682	<1	0.99	32	590	74	<0.01	<5	14	42	20	0.30	<10
20173		30	0.61	540	1	0.87	18	390	56	0.01	<5	6	40	20	0.22	<10
20174		30	0.54	524	1	0.93	18	400	67	<0.01	<5	6	46	20	0.21	<10
20175																
20176		40	0.67	608	1	1.03	23	490	80	<0.01	<5	8	49	20	0.26	<10
20178		40	0.94	730	1	1.01	29	520	1890	0.19	<5	11	48	20	0.27	<10
20179		30	0.80	735	1	0.83	21	390	>10000	1.74	<5	8	38	20	0.21	<10
20180		30	0.73	670	1	0.77	21	410	1825	0.08	<5	8	38	20	0.23	<10
20181		30	0.51	564	1	0.72	16	360	996	0.07	<5	6	37	<20	0.19	<10
20230		40	0.78	703	2	1.27	30	450	126	0.02	<5	8	57	20	0.27	<10
20231		40	0.77	685	2	1.28	23	440	38	<0.01	<5	8	58	20	0.27	<10
20232		40	0.60	554	2	1.27	18	430	50	<0.01	<5	6	56	20	0.23	<10
20233		40	0.51	404	2	1.22	15	410	76	0.01	<5	5	50	20	0.19	<10
20234		20	0.39	338	3	0.86	11	270	172	0.07	<5	3	31	<20	0.13	<10
21082		40	0.50	371	2	1.45	17	500	31	<0.01	<5	6	89	30	0.24	<10
21228		40	1.00	428	1	0.62	30	530	33	0.01	<5	12	53	20	0.29	<10
21234		30	1.02	436	2	0.36	29	530	17	0.04	<5	12	26	20	0.30	<10
21235																
21236																
21237		40	0.58	301	1	0.64	20	480	23	0.01	<5	8	28	20	0.24	<10
21238		40	0.86	388	1	0.77	29	550	16	0.01	<5	11	36	20	0.29	<10
21272		40	0.66	438	1	0.78	21	500	35	0.01	<5	8	41	20	0.25	<10
21273																



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CERTIFICATE OF ANALYSIS AD17129412

Sample Description	Method Analyte Units LOR	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	Pb-OG62 Pb % 0.001	Zn-OG62 Zn % 0.001	Au-ICP22 Au ppm 0.001	PUL-QC Pass75um % 0.01
20031		<10	65	<10	168			0.001	
20032		<10	62	<10	91			0.001	
20033		<10	52	<10	82			<0.001	
20034		<10	46	<10	92			0.002	
20035		<10	26	<10	131			0.001	95.0
20037		<10	36	<10	153			0.002	
20038		<10	26	<10	58			0.001	
20039		<10	26	<10	52			0.002	
20040		<10	25	<10	53			0.002	
20162		<10	36	10	110			0.001	
20163		<10	45	<10	84			0.001	
20164		<10	31	<10	64			0.002	
20165		<10	55	<10	226			0.001	
20167		<10	25	<10	212			0.001	
20168		<10	25	<10	154			0.001	
20169		<10	27	<10	231			0.001	
20170		<10	27	10	188			0.001	
20172		<10	68	10	189			0.001	
20173		<10	33	10	149			0.002	
20174		10	31	<10	88			0.001	
20175		<10	43	<10	117			0.001	
20176		<10	57	<10	2130			0.001	
20178		<10	42	10	>10000	1.160	2.06	0.004	
20179		<10	43	<10	840			0.001	
20180		<10	29	<10	887			0.001	
20181		<10	41	10	226			0.001	
20230		<10	42	<10	87			0.001	
20231		<10	33	10	92			0.001	
20232		<10	25	<10	124			0.001	
20233		<10	17	10	987			0.010	
20234		<10	32	<10	55			<0.001	
21082		<10	64	10	108			0.002	
21228		<10	60	<10	118			0.001	
21234		<10	39	<10	75			0.001	
21235		<10	56	<10	96			0.004	
21236		<10	44	<10	68			0.001	
21237									
21238									
21272									
21273									



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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
21274		3.18	<0.5	9.77	5	770	4.0	<2	0.25	<0.5	13	58	16	3.64	30	4.55
21426		2.66	<0.5	7.82	<5	620	2.9	<2	0.37	<0.5	11	51	31	3.31	20	3.27
21439		1.44	<0.5	9.54	12	730	3.6	<2	0.23	<0.5	14	60	5	3.87	30	4.60
21480		1.91	<0.5	3.43	<5	330	1.4	<2	0.15	<0.5	5	37	44	1.80	10	1.36
21481		2.52	<0.5	8.05	<5	710	8.5	<2	0.26	<0.5	10	53	7	3.16	20	3.52
21482		2.14	<0.5	4.26	<5	410	2.4	<2	0.25	<0.5	4	28	6	1.98	10	1.60
21483		2.47	<0.5	5.57	<5	550	2.7	<2	0.26	<0.5	6	35	6	2.07	10	2.34
21576		2.62	<0.5	7.19	<5	440	3.0	2	0.26	<0.5	10	46	6	2.83	20	3.06
21626		2.71	<0.5	6.23	<5	390	3.0	<2	0.64	<0.5	8	44	15	2.63	20	2.22
21627		1.92	<0.5	6.21	<5	450	2.6	<2	0.59	<0.5	8	45	6	2.49	20	2.22
21628		1.85	<0.5	5.97	<5	420	2.6	<2	0.56	<0.5	9	43	9	2.52	20	2.14
20885		1.63	<0.5	5.28	<5	340	1.8	<2	0.31	<0.5	8	33	5	2.01	10	1.55
20886		0.63	<0.5	5.46	<5	360	1.3	<2	0.24	<0.5	17	33	8	1.72	20	1.45
20887		0.95	<0.5	5.85	7	390	2.1	<2	0.26	<0.5	15	39	23	2.35	20	1.94
20888		1.05	<0.5	9.91	<5	650	3.3	2	0.16	<0.5	13	66	28	3.91	30	4.65
20959		2.47	<0.5	9.23	11	620	3.2	2	0.20	<0.5	12	57	10	3.55	20	4.23
20960		2.99	<0.5	10.15	6	650	4.5	<2	0.19	<0.5	13	62	21	4.03	30	4.73
20961		2.85	<0.5	10.85	<5	700	4.4	<2	0.17	<0.5	14	66	42	4.29	30	5.27
20962		2.80	<0.5	9.20	9	570	3.6	<2	0.16	<0.5	13	53	17	3.54	20	4.36
22582		Not Recvd														
22583		Not Recvd														
22584		Not Recvd														
22585		Not Recvd														
22586		Not Recvd														
22587		Not Recvd														
22588		Not Recvd														
22589		Not Recvd														
22590		Not Recvd														
20954		2.23	<0.5	4.03	<5	270	1.2	<2	0.26	<0.5	5	27	8	1.75	10	1.00
20955		2.88	<0.5	4.22	<5	260	1.1	<2	0.26	<0.5	6	30	8	1.64	10	0.88
20956		1.56	<0.5	8.70	<5	750	1.7	<2	0.24	<0.5	7	33	4	2.13	20	2.75
20957		1.10	<0.5	5.50	<5	500	1.4	<2	0.30	<0.5	8	38	8	2.06	10	1.63



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21274		40	0.90	393	2	0.61	31	510	41	0.01	<5	12	41	20	0.31	<10
21426		30	0.82	492	<1	1.32	28	500	38	<0.01	<5	10	73	20	0.31	<10
21439		30	1.00	517	2	0.73	34	540	20	0.01	<5	12	35	20	0.31	<10
21480		20	0.29	311	5	0.65	13	260	70	0.01	<5	4	28	<20	0.13	<10
21481		40	0.72	538	2	0.97	26	520	48	0.01	<5	10	42	20	0.26	10
21482		30	0.34	362	3	1.00	14	350	54	<0.01	<5	4	48	20	0.17	<10
21483		40	0.41	376	2	0.85	17	490	43	<0.01	<5	6	51	20	0.19	<10
21576		30	0.66	316	2	0.68	24	440	37	0.01	<5	9	42	20	0.24	<10
21626		40	0.58	354	3	1.25	19	450	58	<0.01	<5	7	74	20	0.24	<10
21627		40	0.55	350	3	1.30	21	470	51	<0.01	<5	7	67	20	0.25	<10
21628		40	0.56	333	3	1.25	19	440	43	<0.01	<5	7	62	20	0.24	10
20885		40	0.69	227	3	1.22	16	410	22	0.02	<5	6	48	20	0.18	<10
20886		40	0.90	165	2	1.32	19	430	24	0.03	<5	6	38	20	0.15	<10
20887		40	0.74	251	2	1.17	19	430	28	0.08	<5	7	44	20	0.22	<10
20888		30	1.05	378	2	0.77	37	490	35	0.03	<5	13	33	20	0.34	<10
20959		40	0.90	441	2	0.61	30	510	33	0.01	<5	12	33	20	0.30	<10
20960		40	0.95	481	1	0.52	33	520	42	0.01	<5	13	29	20	0.29	<10
20961		30	0.98	527	<1	0.41	35	570	61	0.02	<5	14	21	20	0.31	<10
20962		40	0.80	394	2	0.43	30	510	43	0.01	<5	11	29	20	0.28	<10
22582																
22583																
22584																
22585																
22586																
22587																
22588																
22589																
22590																
20954		50	0.47	226	2	1.20	15	410	25	0.02	<5	4	47	30	0.17	<10
20955		70	0.62	213	3	1.31	15	510	25	0.02	<5	4	43	40	0.21	<10
20956		50	0.79	263	2	1.70	12	410	27	0.02	<5	4	47	30	0.22	<10
20957		40	0.60	255	2	1.38	16	430	25	0.03	<5	6	50	20	0.20	<10



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Project: MH20

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CERTIFICATE OF ANALYSIS AD17129412

Sample Description	Method Analyte Units LOR	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	Pb-OG62 Pb % 0.001	Zn-OG62 Zn % 0.001	Au-ICP22 Au ppm 0.001	PUL-QC Pass75um % 0.01
21274		10	63	<10	101			0.001	
21426		10	52	<10	80			0.001	
21439		<10	64	<10	80			0.001	
21480		<10	19	10	91			0.001	
21481		<10	48	10	97			0.001	97.0
21482		<10	21	10	91			0.001	
21483		<10	31	10	75			0.002	
21576		<10	44	10	81			0.002	
21626		<10	37	<10	97			0.001	
21627		<10	37	<10	74			0.001	
21628		<10	35	<10	64			0.004	
20885		<10	30	<10	47			0.001	
20886		<10	30	<10	45			0.001	
20887		<10	35	<10	95			0.001	
20888		<10	70	10	103			0.002	
20959		<10	60	<10	87			0.002	
20960		<10	65	10	106			0.003	
20961		<10	72	<10	119			0.001	
20962		10	59	10	89			0.001	
22582									
22583									
22584									
22585									
22586									
22587									
22588									
22589									
22590									
20954		<10	21	<10	47			0.001	
20955		<10	23	<10	35			0.001	
20956		<10	27	10	42			0.001	
20957		<10	31	<10	53			0.001	



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CERTIFICATE OF ANALYSIS AD17129412

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 ME-ICP61 ME-OG62 Pb-OG62
Zn-OG62

Applies to Method:

Processed at ALS Adelaide located at Unit 1, 1 Burma Road, Pooraka, Adelaide, SA, Australia.
BAG-01 LEV-01 LOG-22 LOG-24
PUL-23 PUL-QC SPL-21 WEI-21