



Australian Laboratory Services Pty. Ltd.

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No: 825, Corporate Site No: 23001.

QC CERTIFICATE AD17077125

Project: MH01

P.O. No.: 338151

This report is for 133 Percussion samples submitted to our lab in Adelaide, SA,
Australia on 21-APR-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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Finalized Date: 10-MAY-2017

Account: TODRIV

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

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

Signature:

Cameron Brosnan, Laboratory Manager, Perth



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QC CERTIFICATE OF ANALYSIS AD17077125

Sample Description	Method Analyte Units LOR	Au-ICP22 Au ppm 0.001	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
STANDARDS																
AMIS0282		0.193														
AMIS0282		0.192														
AMIS0282		0.190														
Target Range - Lower Bound		0.178														
Upper Bound		0.202														
GBM908-10			3.2	6.78	54	1100	1.4	2	3.55	1.5	28	135	3430	5.21	20	2.06
GBM908-10			3.2	7.28	52	1190	1.5	5	3.86	1.8	29	148	3720	5.56	20	2.23
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
Upper Bound			4.2	7.84	70	1220	2.5	5	4.12	2.8	30	155	3890	6.10	40	2.31
GLG912-5		0.231														
GLG912-5		0.221														
Target Range - Lower Bound		0.210														
Upper Bound		0.239														
LEA-16		0.508														
LEA-16		0.499														
LEA-16		0.492														
Target Range - Lower Bound		0.470														
Upper Bound		0.532														
MP-1b																
Target Range - Lower Bound																
Upper Bound																
MRGeo08			4.7	7.76	32	1150	3.3	2	2.64	2.0	21	95	622	3.87	20	3.20
MRGeo08			4.9	8.05	36	1180	3.4	3	2.70	2.3	21	96	644	3.99	20	3.30
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
Upper Bound			5.7	8.14	45	1210	4.5	5	2.90	3.4	23	102	676	4.37	40	3.43
OGGeo08			20.6	7.64	133	480	3.2	11	2.32	20.2	107	92	8960	5.70	20	3.18
OGGeo08			20.1	7.12	124	400	3.0	14	2.21	19.6	101	85	8560	5.31	20	2.99
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
Upper Bound			22.7	7.44	136	930	4.1	15	2.44	21.0	108	98	8980	5.91	40	3.19
OGGeo08																
Target Range - Lower Bound																
Upper Bound																



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QC CERTIFICATE OF ANALYSIS AD17077125

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
STANDARDS																
AMIS0282																
AMIS0282																
AMIS0282																
Target Range - Lower Bound																
Upper Bound																
GBM908-10		50	1.71	771	69	2.04	2270	940	2010	0.37	<5	17	287	20	0.65	<10
GBM908-10		50	1.85	829	63	2.18	2400	1020	2200	0.39	<5	19	308	20	0.71	<10
Target Range - Lower Bound		20	1.61	715	57	1.93	2030	880	1860	0.33	<5	14	260	<20	0.59	<10
Upper Bound		70	1.99	885	72	2.38	2480	1100	2280	0.43	12	20	320	60	0.74	20
GLG912-5																
GLG912-5																
Target Range - Lower Bound																
Upper Bound																
LEA-16																
LEA-16																
LEA-16																
Target Range - Lower Bound																
Upper Bound																
MP-1b																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		30	1.34	566	14	1.95	732	1060	1120	0.31	<5	12	319	20	0.52	<10
MRGeo08		40	1.38	586	15	2.00	753	1070	1145	0.32	<5	13	329	20	0.52	10
Target Range - Lower Bound		<10	1.17	497	12	1.76	621	930	969	0.27	<5	10	276	<20	0.44	<10
Upper Bound		60	1.45	619	18	2.18	761	1160	1190	0.35	15	15	340	60	0.56	20
OGGeo08		30	1.33	555	975	1.92	9720	940	7850	2.97	27	11	274	20	0.43	<10
OGGeo08		30	1.25	512	931	1.79	9170	840	7550	2.88	28	10	258	20	0.42	10
Target Range - Lower Bound		<10	1.11	447	841	1.62	8000	760	6510	2.51	16	8	223	<20	0.35	<10
Upper Bound		60	1.38	557	1030	2.00	9770	950	7970	3.09	38	13	275	60	0.45	20
OGGeo08																
Target Range - Lower Bound																
Upper Bound																



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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	Cu-OG62 Cu % 0.001	Zn-OG62 Zn % 0.001
STANDARDS							
AMIS0282							
AMIS0282							
AMIS0282							
Target Range - Lower Bound							
Upper Bound							
GBM908-10		<10	141	<10	1035		
GBM908-10		<10	148	<10	1115		
Target Range - Lower Bound		<10	123	<10	939		
Upper Bound		20	153	20	1155		
GLG912-5							
GLG912-5							
Target Range - Lower Bound							
Upper Bound							
LEA-16							
LEA-16							
LEA-16							
Target Range - Lower Bound							
Upper Bound							
MP-1b						3.12	17.05
Target Range - Lower Bound						2.96	16.10
Upper Bound						3.18	17.25
MRGeo08		<10	115	<10	811		
MRGeo08		<10	116	10	839		
Target Range - Lower Bound		<10	97	<10	722		
Upper Bound		30	121	30	886		
OGGeo08		<10	96	<10	7530		
OGGeo08		<10	90	<10	7300		
Target Range - Lower Bound		<10	77	<10	6500		
Upper Bound		30	97	20	7950		
OGGeo08						0.852	0.747
Target Range - Lower Bound						0.809	0.696
Upper Bound						0.869	0.748



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Sample Description	Method Analyte Units LOR	Au-ICP22	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
		Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%
		0.001	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01
STANDARDS																
OREAS 601		48.9	6.44	328	360	2.1	25	1.33	7.9	5	43	996	2.39	20	2.11	
OREAS 601		49.5	6.46	341	530	2.1	23	1.34	7.8	4	47	1000	2.40	20	2.16	
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	
Upper Bound		54.6	6.94	343	980	3.2	26	1.45	9.3	7	47	1080	2.74	40	2.32	
OREAS-133a																
Target Range - Lower Bound																
Upper Bound																
OREAS-45e		0.051														
OREAS-45e		0.055														
OREAS-45e		0.050														
OREAS-45e		0.051														
OREAS-45e		0.049														
OREAS-45e		0.053														
Target Range - Lower Bound		0.049														
Upper Bound		0.057														
PK2		5.07														
PK2		5.07														
PK2		4.52														
Target Range - Lower Bound		4.50														
Upper Bound		5.07														
BLANKS																
BLANK		<0.001														
BLANK		<0.001														
BLANK		<0.001														
BLANK		<0.001														
BLANK		<0.001														
BLANK		<0.001														
Target Range - Lower Bound		<0.001														
Upper Bound		0.002														
BLANK		<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10	<0.01	
BLANK		<0.5	0.02	<5	<10	<0.5	<2	<0.01	<0.5	<1	1	1	0.02	<10	<0.01	
BLANK		<0.5	0.01	<5	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	0.01	<10	<0.01	
BLANK		<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10	<0.01	
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	
Upper Bound		1.0	0.02	10	20	1.0	4	0.02	1.0	2	2	2	0.02	20	0.02	
BLANK																
Target Range - Lower Bound																
Upper Bound																



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		10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10
STANDARDS																
OREAS 601		30	0.36	488	4	1.40	24	470	350	1.08	32	5	236	<20	0.19	<10
OREAS 601		30	0.37	490	3	1.42	27	470	353	1.10	35	5	238	<20	0.19	<10
Target Range - Lower Bound		<10	0.34	427	2	1.30	21	410	294	0.95	19	3	206	<20	0.15	<10
Upper Bound		50	0.44	533	6	1.61	28	530	364	1.19	42	7	254	50	0.21	20
OREAS- 133a																
Target Range - Lower Bound																
Upper Bound																
OREAS-45e																
OREAS-45e																
OREAS-45e																
OREAS-45e																
OREAS-45e																
OREAS-45e																
Target Range - Lower Bound																
Upper Bound																
PK2																
PK2																
PK2																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK																
BLANK																
BLANK																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<10	<0.01	<5	<1	<0.01	1	10	<2	<0.01	<5	<1	<1	<20	<0.01	<10
BLANK		<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<5	<1	<1	<20	<0.01	<10
BLANK		<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<5	<1	<1	<20	<0.01	<10
BLANK		<10	<0.01	<5	<1	<0.01	<1	<10	2	<0.01	<5	<1	<1	<20	<0.01	<10
Target Range - Lower Bound		<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<5	<1	<1	<20	<0.01	<10
Upper Bound		20	0.02	10	2	0.02	2	20	4	0.02	10	2	2	40	0.02	20
BLANK																
Target Range - Lower Bound																
Upper Bound																



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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	Cu-OG62 Cu % 0.001	Zn-OG62 Zn % 0.001
STANDARDS							
OREAS 601		<10	26	<10	1385		
OREAS 601		<10	27	10	1395		
Target Range - Lower Bound		<10	22	<10	1195		
Upper Bound		20	29	30	1465		
OREAS-133a						0.032	10.80
Target Range - Lower Bound						0.030	10.50
Upper Bound						0.034	11.25
OREAS-45e							
OREAS-45e							
OREAS-45e							
OREAS-45e							
OREAS-45e							
Target Range - Lower Bound							
Upper Bound							
PK2							
PK2							
PK2							
Target Range - Lower Bound							
Upper Bound							
BLANKS							
BLANK							
BLANK							
BLANK							
BLANK							
BLANK							
BLANK							
Target Range - Lower Bound							
Upper Bound							
BLANK		<10	<1	<10	<2		
BLANK		<10	<1	<10	3		
BLANK		<10	<1	<10	3		
BLANK		<10	<1	<10	<2		
Target Range - Lower Bound		<10	<1	<10	<2		
Upper Bound		20	2	20	4		
BLANK						<0.001	<0.001
Target Range - Lower Bound						<0.001	<0.001
Upper Bound						0.002	0.002



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DUPLICATES																
MH20050			<0.5	15.35	21	50	<0.5	7	0.01	<0.5	1	142	8	13.50	50	0.13
DUP			<0.5	15.20	28	40	<0.5	5	0.01	<0.5	1	156	7	14.55	60	0.13
Target Range - Lower Bound			<0.5	14.50	18	30	<0.5	4	<0.01	<0.5	<1	141	6	13.30	40	0.11
Upper Bound			1.0	16.05	31	60	1.0	8	0.02	1.0	2	157	9	14.75	70	0.15
MH20085		0.001														
DUP		0.001														
Target Range - Lower Bound		<0.001														
Upper Bound		0.002														
MH20087			0.5	6.16	<5	650	2.2	6	0.31	0.6	10	43	58	3.17	20	2.38
DUP			<0.5	6.15	6	650	2.2	6	0.31	0.5	10	44	59	3.17	20	2.34
Target Range - Lower Bound			<0.5	5.84	<5	610	1.6	4	0.28	<0.5	9	40	55	3.00	<10	2.23
Upper Bound			1.0	6.47	10	690	2.8	8	0.34	1.0	12	47	62	3.34	30	2.49
MH20102			<0.5	6.85	6	660	2.7	3	0.26	<0.5	9	50	8	3.33	20	2.98
DUP			<0.5	8.07	6	770	3.1	3	0.30	<0.5	11	56	8	3.89	20	3.31
Target Range - Lower Bound			<0.5	7.08	<5	670	2.3	<2	0.26	<0.5	9	49	7	3.42	<10	2.98
Upper Bound			1.0	7.84	10	760	3.5	4	0.30	1.0	12	57	9	3.80	30	3.31
MH20122			<0.5	7.18	<5	30	1.2	3	0.38	0.6	2	5	310	1.03	20	1.07
DUP			<0.5	7.57	6	30	1.2	4	0.39	<0.5	2	5	312	1.09	20	1.07
Target Range - Lower Bound			<0.5	7.00	<5	20	0.6	<2	0.36	<0.5	<1	4	299	1.00	<10	1.01
Upper Bound			1.0	7.75	10	40	1.8	4	0.41	1.0	3	6	323	1.12	30	1.13
MH20128		0.015														
DUP		0.014														
Target Range - Lower Bound		0.013														
Upper Bound		0.016														
MH20199			12.9	4.06	42	500	1.4	129	0.21	7.9	56	31	>10000	4.38	10	1.45
DUP			13.5	4.33	50	490	1.4	128	0.22	8.4	61	32	>10000	4.62	10	1.54
Target Range - Lower Bound			12.0	3.98	39	460	0.8	120	0.19	7.2	55	29	9650	4.27	<10	1.41
Upper Bound			14.4	4.41	53	530	2.0	137	0.24	9.1	62	34	>10000	4.74	20	1.58
MH20205		0.041														
DUP		0.041														
Target Range - Lower Bound		0.038														
Upper Bound		0.044														



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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
DUPLICATES																
MH20050		<10	0.02	302	17	0.01	7	100	12	0.05	<5	10	4	50	0.79	10
DUP		<10	0.02	327	19	0.01	6	110	13	0.05	<5	8	3	40	0.84	<10
Target Range - Lower Bound		<10	<0.01	294	16	<0.01	5	90	10	0.04	<5	8	2	<20	0.76	<10
Upper Bound		20	0.03	335	20	0.02	8	120	15	0.06	10	10	5	70	0.87	20
MH20085																
DUP																
Target Range - Lower Bound																
Upper Bound																
MH20087		40	0.59	612	1	0.93	18	420	336	0.03	<5	7	46	20	0.23	10
DUP		40	0.59	615	1	0.92	18	420	323	0.03	<5	7	46	20	0.23	<10
Target Range - Lower Bound		30	0.55	578	<1	0.87	16	390	311	0.02	<5	6	43	<20	0.21	<10
Upper Bound		50	0.63	649	2	0.98	20	450	348	0.04	10	8	49	40	0.25	20
MH20102		40	0.68	663	1	0.82	23	430	225	0.01	<5	9	33	20	0.24	<10
DUP		50	0.80	771	2	0.92	25	490	253	0.01	<5	10	40	20	0.27	<10
Target Range - Lower Bound		30	0.69	676	<1	0.82	22	430	225	<0.01	<5	8	34	<20	0.23	<10
Upper Bound		60	0.79	758	2	0.92	26	490	253	0.02	10	11	39	40	0.28	20
MH20122		<10	0.09	1940	1	4.04	2	710	22	0.10	<5	6	27	<20	0.01	<10
DUP		<10	0.09	2000	1	4.05	1	720	26	0.10	<5	6	28	<20	0.01	<10
Target Range - Lower Bound		<10	0.08	1865	<1	3.83	<1	670	21	0.09	<5	5	25	<20	<0.01	<10
Upper Bound		20	0.10	2070	2	4.26	2	760	27	0.12	10	7	30	40	0.02	20
MH20128																
DUP																
Target Range - Lower Bound																
Upper Bound																
MH20199		20	0.47	495	2	0.68	18	270	1765	1.75	<5	5	35	<20	0.16	<10
DUP		30	0.50	522	2	0.73	20	280	1880	1.87	<5	5	37	20	0.17	10
Target Range - Lower Bound		<10	0.45	478	<1	0.66	17	250	1730	1.71	<5	4	33	<20	0.15	<10
Upper Bound		40	0.52	539	3	0.75	21	300	1915	1.91	10	6	39	40	0.18	20
MH20205																
DUP																
Target Range - Lower Bound																
Upper Bound																



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QC CERTIFICATE OF ANALYSIS AD17077125

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	Cu-OG62 Cu % 0.001	Zn-OG62 Zn % 0.001
DUPLICATES							
MH20050		<10	392	<10	9		
DUP		<10	435	<10	6		
Target Range - Lower Bound		<10	392	<10	5		
Upper Bound		20	435	20	10		
MH20085							
DUP							
Target Range - Lower Bound							
Upper Bound							
MH20087		<10	38	10	359		
DUP		<10	38	10	363		
Target Range - Lower Bound		<10	35	<10	341		
Upper Bound		20	41	20	381		
MH20102		<10	45	10	177		
DUP		<10	52	<10	186		
Target Range - Lower Bound		<10	45	<10	170		
Upper Bound		20	52	20	193		
MH20122		10	1	10	83		
DUP		<10	1	10	83		
Target Range - Lower Bound		<10	<1	<10	77		
Upper Bound		20	2	20	89		
MH20128							
DUP							
Target Range - Lower Bound							
Upper Bound							
MH20199		<10	25	<10	3370		
DUP		<10	26	<10	3590		
Target Range - Lower Bound		<10	23	<10	3300		
Upper Bound		20	28	20	3660		
MH20205							
DUP							
Target Range - Lower Bound							
Upper Bound							



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QC CERTIFICATE OF ANALYSIS AD17077125

Sample Description	Method Analyte Units LOR	Au-ICP22 Au ppm 0.001	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
MH20206 DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
MH20214 DUP Target Range - Lower Bound Upper Bound			<0.5 0.5	4.87 5.22	<5 5	400 430	1.5 1.7	<2 2	0.34 0.37	<0.5 0.5	5 6	35 38	22 15	2.31 2.49	10 10	1.53 1.61
			<0.5 1.0	4.78 5.31	<5 10	380 450	1.0 2.2	<2 4	0.33 0.38	<0.5 1.0	4 7	34 39	17 20	2.27 2.53	<10 20	1.48 1.66
ORIGINAL DUP Target Range - Lower Bound Upper Bound		<0.001 <0.001														
		<0.001 0.002														
ORIGINAL DUP Target Range - Lower Bound Upper Bound		0.045 0.065														
		0.051 0.059														
ORIGINAL DUP Target Range - Lower Bound Upper Bound		<0.001 <0.001														
		<0.001 0.002														
ORIGINAL DUP Target Range - Lower Bound Upper Bound		0.008 0.009														
		0.007 0.010														
ORIGINAL DUP Target Range - Lower Bound Upper Bound		0.002 0.003														
		<0.001 0.004														
ORIGINAL DUP Target Range - Lower Bound Upper Bound		0.001 0.002														
		<0.001 0.002														



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QC CERTIFICATE OF ANALYSIS AD17077125

Sample Description	Method Analyte Units LOR	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 %	ME-ICP61 Tl ppm
		10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10
MH20206 DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
MH20214 DUP Target Range - Lower Bound Upper Bound		40 40 30 50	0.47 0.50 0.45 0.52	417 455 409 463	1 <1 <1 2	1.17 1.24 1.13 1.28	15 17 14 18	380 420 370 430	44 46 41 49	0.01 0.01 <0.01 0.02	<5 <5 <5 10	6 6 5 7	59 63 57 65	20 20 <20 40	0.21 0.22 0.19 0.24	<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																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																



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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	Cu-OG62 Cu % 0.001	Zn-OG62 Zn % 0.001
MH20206 DUP Target Range - Lower Bound Upper Bound		DUPLICATES 1.055 1.060 0.332 1.030 0.323 1.085 0.341					
MH20214 DUP Target Range - Lower Bound Upper Bound		<10 <10 <10 20	29 32 28 33	10 10 <10 20	90 91 84 97		
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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ORIGINAL DUP Target Range - Lower Bound Upper Bound							



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Sample Description	Method Analyte Units LOR	Au-ICP22	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
		Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%
		0.001	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
ORIGINAL DUP Target Range - Lower Bound Upper Bound		0.001 0.003 <0.001 0.003														
ORIGINAL DUP Target Range - Lower Bound Upper Bound		0.061 0.123 0.086 0.098														



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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
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
ORIGINAL DUP Target Range - Lower Bound Upper Bound																



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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	Cu-OG62 Cu % 0.001	Zn-OG62 Zn % 0.001
ORIGINAL DUP Target Range - Lower Bound Upper Bound	DUPLICATES						
ORIGINAL DUP Target Range - Lower Bound Upper Bound							



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QC CERTIFICATE OF ANALYSIS AD17077125

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
Zn-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 PUL-QC
SPL-21 WEI-21