



Australian Laboratory Services Pty. Ltd.

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No: 825, Corporate Site No: 23001.

## CERTIFICATE AD17129407

Project: MH19

P.O. No.: 338170

This report is for 81 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

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 \*\*\*\*\*

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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
Cu-OG62	Ore Grade Cu - Four Acid	ICP-AES
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
Ag-OG62	Ore Grade Ag - Four Acid	ICP-AES
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES

Signature:

Cameron Brosnan, Laboratory Manager, Perth



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## CERTIFICATE OF ANALYSIS AD17129407

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
22382		0.17	<0.5	5.92	<5	540	2.1	7	0.25	<0.5	8	43	612	2.70	10	2.56
22386		2.12	<0.5	4.09	<5	300	1.5	3	0.38	<0.5	7	22	13	1.63	10	1.23
22391		2.77	<0.5	4.89	<5	440	1.9	<2	0.37	<0.5	6	26	7	1.95	10	1.87
22396		2.72	<0.5	5.51	<5	460	2.2	<2	0.48	<0.5	7	28	12	1.88	10	1.91
22401		2.25	<0.5	4.72	5	340	2.2	<2	0.48	<0.5	6	23	14	1.66	10	1.71
22450		0.05	<0.5	5.84	12	30	1.0	<2	1.73	<0.5	27	43	40	2.71	20	3.83
22451		1.79	<0.5	5.10	<5	490	1.7	<2	0.38	<0.5	6	28	14	1.78	10	2.10
22406		2.60	<0.5	7.04	6	650	2.8	3	0.20	<0.5	10	38	33	2.83	20	3.63
22411		2.25	<0.5	8.91	7	880	3.0	3	0.29	<0.5	11	53	10	3.34	20	4.39
22416		2.28	<0.5	8.68	10	970	3.1	<2	0.30	<0.5	12	46	475	3.72	20	4.83
22421		2.29	<0.5	3.49	<5	240	1.6	3	0.47	0.5	5	23	59	1.52	10	1.01
22425		0.05	0.7	4.87	<5	10	1.1	<2	0.13	0.7	1	10	204	0.21	10	4.68
22427		2.94	<0.5	5.10	<5	430	2.0	2	0.34	<0.5	6	27	3	1.67	10	2.06
22432		2.32	<0.5	4.24	<5	350	1.6	2	0.31	<0.5	5	24	9	1.59	10	1.63
22437		3.04	<0.5	5.08	<5	400	2.3	<2	0.30	<0.5	7	30	15	1.96	10	2.28
22442		2.99	<0.5	3.84	<5	340	1.4	2	0.32	<0.5	3	25	28	1.41	10	1.37
22447		2.53	<0.5	4.95	<5	420	1.8	<2	0.39	<0.5	6	30	10	1.97	10	1.81
22459		2.69	<0.5	7.63	9	500	3.2	<2	0.14	<0.5	9	40	31	2.97	20	3.72
22464		3.15	<0.5	6.45	<5	510	2.7	<2	0.37	<0.5	8	40	24	2.61	20	2.49
22468		3.26	<0.5	5.81	6	640	2.2	<2	0.31	<0.5	8	34	45	2.10	10	2.41
22469		3.25	<0.5	6.13	<5	680	2.3	<2	0.32	<0.5	7	33	47	2.23	20	2.62
22470		1.96	<0.5	7.77	8	930	2.8	<2	0.35	<0.5	11	43	4	2.95	20	3.50
22475		0.05	2.8	7.06	57	1110	1.4	3	3.74	1.4	26	132	3550	5.47	20	2.13
22476		3.47	<0.5	5.37	5	660	1.8	3	0.28	<0.5	6	33	13	2.00	10	2.26
22481		2.14	<0.5	5.34	<5	600	2.0	<2	0.43	<0.5	7	32	5	1.95	10	2.07
22486		2.65	<0.5	7.73	6	750	3.3	3	0.22	<0.5	11	43	12	3.04	20	3.78
22491		2.47	<0.5	2.98	<5	180	0.9	2	0.12	1.0	6	28	48	2.85	10	1.08
22496		2.61	<0.5	5.72	7	610	2.1	<2	0.45	<0.5	8	36	8	2.31	10	2.33
22500		0.06	<0.5	16.35	26	50	<0.5	<2	0.02	<0.5	2	149	2	15.35	50	0.15
22502		2.91	<0.5	5.34	8	540	2.2	3	0.44	<0.5	7	35	8	2.05	10	2.38
22507		3.11	<0.5	7.00	10	690	3.0	<2	0.32	<0.5	10	43	9	2.80	20	3.23
22512		2.08	<0.5	5.24	7	310	2.8	<2	0.53	<0.5	9	37	11	2.36	10	1.64
22513		1.43	<0.5	5.13	6	330	2.6	4	0.48	<0.5	8	35	10	2.22	10	1.66
22518		2.10	<0.5	4.33	<5	470	1.8	<2	0.29	<0.5	5	27	4	1.67	10	1.51
22519		2.80	0.6	5.68	8	780	1.9	<2	0.31	0.5	9	47	48	2.81	10	2.13
22520		3.48	<0.5	8.38	8	900	3.4	2	0.20	<0.5	13	52	2	3.76	20	4.01
22525		0.05	<0.5	5.49	13	30	1.1	<2	1.64	<0.5	27	44	38	2.58	20	3.69
22526		0.88	81.0	2.58	8	200	0.9	160	0.07	70.7	65	30	>10000	5.24	10	0.87
22527		3.76	35.2	1.90	<5	170	0.6	110	0.02	69.6	52	29	8510	4.32	10	0.78
22528		2.64	33.0	0.67	5	50	<0.5	50	0.01	40.8	35	24	7200	2.57	<10	0.23



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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
22382		30	0.53	386	4	0.51	18	320	19	0.09	<5	7	34	20	0.22	<10
22386		30	0.38	172	1	0.91	12	190	24	<0.01	<5	4	59	30	0.16	<10
22391		30	0.48	226	1	0.92	15	410	10	<0.01	<5	5	45	20	0.19	<10
22396		40	0.45	323	1	0.94	16	430	16	<0.01	<5	6	61	20	0.21	<10
22401		30	0.41	272	1	0.84	12	390	17	<0.01	<5	5	44	20	0.18	<10
22450		<10	0.81	355	8	1.53	32	620	31	0.02	<5	8	76	<20	0.30	10
22451		30	0.42	291	1	0.70	14	420	12	<0.01	<5	5	43	20	0.20	<10
22406		40	0.71	382	1	0.24	22	480	14	<0.01	<5	8	19	20	0.26	10
22411		40	0.85	392	<1	0.37	26	520	14	<0.01	<5	11	29	20	0.30	<10
22416		50	0.92	438	1	0.23	30	440	30	<0.01	<5	10	39	20	0.25	<10
22421		20	0.31	260	2	0.92	12	270	58	0.01	<5	3	57	<20	0.11	<10
22425		<10	0.03	45	1	1.21	10	480	28	0.06	<5	<1	20	<20	0.02	10
22427		40	0.36	229	1	1.00	13	420	15	<0.01	<5	5	52	20	0.19	<10
22432		30	0.32	184	3	0.91	13	360	11	0.01	<5	4	56	20	0.15	<10
22437		30	0.43	205	2	0.69	15	420	13	<0.01	<5	5	44	20	0.19	<10
22442		40	0.28	208	2	0.96	10	370	122	0.01	<5	3	47	20	0.15	<10
22447		50	0.42	299	1	1.17	15	490	32	<0.01	<5	5	68	30	0.23	<10
22459		40	0.67	253	1	0.31	21	470	14	0.01	<5	9	20	20	0.25	<10
22464		30	0.63	428	2	1.07	22	470	41	0.01	<5	8	63	20	0.24	<10
22468		40	0.50	331	1	1.00	17	480	68	0.01	<5	6	54	20	0.22	<10
22469		40	0.55	353	2	0.96	17	480	64	0.02	<5	7	52	20	0.23	<10
22470		40	0.72	527	2	0.99	23	500	26	<0.01	<5	9	66	20	0.26	<10
22475		50	1.81	793	58	2.11	2210	980	2000	0.39	<5	17	294	20	0.64	<10
22476		40	0.45	310	2	0.95	16	440	26	0.01	<5	6	47	20	0.21	<10
22481		40	0.44	303	1	1.10	16	460	30	<0.01	<5	5	54	20	0.21	<10
22486		40	0.76	515	1	0.64	25	490	19	<0.01	<5	10	40	20	0.27	<10
22491		10	0.97	546	3	0.11	14	150	248	0.03	<5	3	7	<20	0.10	<10
22496		30	0.49	459	3	1.18	16	430	30	0.01	<5	6	81	20	0.22	<10
22500		<10	0.02	337	17	0.01	7	110	11	0.05	6	8	4	50	0.84	<10
22502		30	0.44	360	2	0.92	15	430	40	<0.01	<5	6	59	20	0.21	<10
22507		40	0.69	390	2	0.85	21	500	19	<0.01	<5	8	49	20	0.26	10
22512		30	0.58	383	3	1.16	16	450	46	<0.01	<5	6	94	20	0.21	<10
22513		30	0.53	364	2	1.10	17	440	40	<0.01	<5	6	84	20	0.21	<10
22518		30	0.31	294	2	0.92	10	380	28	<0.01	<5	4	79	20	0.14	<10
22519		30	0.54	558	1	1.24	17	430	370	0.05	<5	7	79	20	0.25	<10
22520		40	0.85	677	<1	0.76	25	490	35	0.01	<5	11	45	20	0.33	<10
22525		<10	0.77	343	12	1.47	30	600	39	0.02	<5	8	71	<20	0.30	10
22526		10	0.33	544	2	0.34	18	160	>10000	5.00	<5	2	16	<20	0.08	10
22527		<10	0.29	621	4	0.06	18	80	>10000	4.01	<5	2	4	<20	0.05	<10
22528		<10	0.10	254	4	0.03	12	40	5380	2.55	<5	1	1	<20	0.02	<10



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## CERTIFICATE OF ANALYSIS AD17129407

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	Ag-OG62 Ag ppm 1	Cu-OG62 Cu % 0.001	Pb-OG62 Pb % 0.001	Zn-OG62 Zn % 0.001	Au-ICP22 Au ppm 0.001	PUL-QC Pass75um % 0.01
22382		<10	38	<10	2420					0.007	
22386		<10	25	<10	55					<0.001	
22391		<10	27	<10	69					<0.001	
22396		<10	30	<10	79					<0.001	
22401		<10	25	<10	97					0.001	90.0
22450		<10	67	<10	58					0.018	
22451		<10	28	<10	59					<0.001	
22406		<10	42	<10	122					0.001	
22411		<10	61	<10	385					<0.001	
22416		<10	56	<10	236					0.001	
22421		<10	15	<10	119					<0.001	
22425		<10	3	<10	316					0.348	
22427		<10	27	<10	54					0.006	
22432		<10	21	<10	41					<0.001	
22437		<10	27	<10	54					<0.001	
22442		<10	18	<10	69					<0.001	
22447		<10	27	<10	62					<0.001	
22459		<10	45	<10	82					0.001	
22464		<10	39	<10	78					<0.001	
22468		<10	32	<10	122					<0.001	
22469		<10	34	<10	134					<0.001	
22470		<10	46	<10	85					<0.001	
22475		<10	140	<10	1055					0.435	
22476		<10	29	<10	54					0.001	
22481		<10	29	<10	82					<0.001	
22486		<10	49	<10	81					<0.001	
22491		<10	19	<10	450					<0.001	
22496		<10	33	<10	75					<0.001	
22500		<10	424	<10	<2					NSS	
22502		<10	29	<10	82					<0.001	
22507		<10	43	<10	79					<0.001	
22512		<10	33	<10	85					<0.001	
22513		<10	31	<10	83					<0.001	
22518		<10	20	<10	49					<0.001	
22519		<10	36	<10	561					<0.001	
22520		<10	54	<10	123					<0.001	
22525		<10	65	<10	58					0.017	
22526		<10	15	10	>10000		1.420	2.12	4.41	0.018	
22527		<10	12	10	>10000			1.195	4.54	0.017	
22528		<10	4	10	>10000				2.53	0.008	



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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
22529		2.01	45.4	2.44	<5	250	0.7	109	0.05	33.6	36	25	8280	3.49	10	0.92
22530		2.36	3.5	2.90	5	320	0.9	10	0.07	17.5	16	29	1255	2.44	10	1.09
22531		2.43	10.5	3.02	13	340	0.8	24	0.06	61.8	45	32	4450	3.35	10	1.26
22532		2.13	<0.5	6.88	7	890	2.1	<2	0.12	0.7	9	45	120	3.01	20	3.28
22533		3.63	1.9	6.07	5	730	1.9	2	0.12	1.1	8	40	279	3.02	20	2.65
22534		2.53	<0.5	4.08	<5	480	1.3	<2	0.08	<0.5	6	40	16	2.25	10	1.78
22535		2.40	<0.5	5.39	9	590	1.6	5	0.10	<0.5	9	42	48	2.94	10	2.27
22536		3.10	<0.5	4.87	6	510	1.5	2	0.11	<0.5	7	36	30	2.69	10	1.90
22537		2.45	<0.5	0.28	<5	20	<0.5	2	0.01	<0.5	3	31	37	0.91	<10	0.12
22538		1.78	<0.5	0.27	8	20	<0.5	3	<0.01	0.5	2	15	137	0.89	<10	0.11
22539		2.62	<0.5	0.81	6	60	<0.5	<2	0.02	<0.5	3	27	54	1.38	<10	0.35
22540		2.93	<0.5	0.78	<5	80	<0.5	5	0.01	<0.5	3	22	38	1.01	<10	0.35
22541		2.75	2.0	2.15	<5	150	0.7	5	0.03	1.4	9	25	1135	2.78	10	0.88
22544		5.06	<0.5	2.39	7	190	1.0	2	0.05	<0.5	6	41	10	2.74	10	0.86
22549		2.64	<0.5	6.53	8	530	1.9	<2	0.12	<0.5	9	40	14	2.63	20	2.61
22550		0.05	0.7	4.75	6	10	1.1	3	0.12	0.8	2	11	200	0.20	10	4.49
22555		2.76	6.4	6.18	8	560	2.2	22	0.16	1.0	9	37	344	2.80	20	2.49
22560		2.42	<0.5	7.38	<5	620	2.9	<2	0.17	<0.5	9	42	11	2.91	20	3.32
22561		2.97	<0.5	10.80	<5	900	4.8	<2	0.13	<0.5	14	63	26	4.54	30	5.25
22562		2.39	<0.5	10.50	10	880	4.5	<2	0.13	<0.5	15	63	62	4.33	30	5.18
22566		3.08	<0.5	5.28	6	500	2.0	<2	0.20	<0.5	7	35	24	2.22	10	1.98
22567	Not Recvd															
22568		3.30	<0.5	5.48	<5	670	1.8	<2	0.14	<0.5	8	37	38	2.31	10	2.25
22569		2.52	<0.5	5.65	7	680	1.8	2	0.13	<0.5	8	35	24	2.42	10	2.43
22570		1.92	32.2	2.25	<5	210	0.6	74	0.05	122.0	51	26	5770	4.11	10	0.86
22571		4.49	33.1	2.89	<5	210	0.9	91	0.06	117.5	75	30	>10000	4.99	10	1.06
22572		2.82	>100	1.58	49	90	<0.5	404	0.02	215	186	16	>10000	8.85	10	0.39
22573		2.42	37.3	0.74	29	40	<0.5	92	0.01	62.7	73	27	>10000	4.32	<10	0.20
22574		2.49	17.4	1.10	29	50	<0.5	31	0.01	42.8	60	35	>10000	4.31	<10	0.35
22575		0.05	2.9	7.12	55	1100	1.4	3	3.70	1.6	26	139	3610	5.45	20	2.11
22576		1.12	9.8	1.64	17	100	0.5	27	0.02	23.3	60	29	4720	4.01	10	0.58
22577		1.12	16.7	1.91	49	90	0.6	15	0.03	64.2	97	25	>10000	6.68	10	0.50
22578		2.90	17.5	1.20	346	70	<0.5	58	0.02	60.8	123	31	9850	4.01	<10	0.39
22579		2.45	11.1	1.18	978	110	<0.5	36	0.02	10.0	25	38	3020	2.00	<10	0.48
22580		3.19	7.4	0.37	183	30	<0.5	24	0.01	6.6	30	47	2380	1.61	<10	0.14
22581		1.76	2.4	0.77	53	60	<0.5	11	0.02	5.7	92	54	1235	2.21	<10	0.29
22426		2.52	0.5	8.39	11	800	3.4	4	0.26	0.6	11	46	151	3.13	20	4.15
22521		3.21	<0.5	4.81	<5	530	1.9	<2	0.28	<0.5	7	30	16	2.10	10	1.79
22522		2.64	<0.5	3.69	5	540	1.0	2	0.28	<0.5	5	29	92	1.92	10	1.19
22523		3.05	<0.5	7.44	9	710	2.8	<2	0.22	<0.5	10	44	59	3.76	20	3.06



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22529		10	0.25	514	3	0.23	13	170	>10000	2.61	<5	2	10	<20	0.09	<10
22530		20	0.28	363	3	0.33	12	220	1010	0.82	<5	3	15	<20	0.11	<10
22531		20	0.28	413	2	0.21	11	220	1800	2.76	<5	3	13	<20	0.11	10
22532		40	0.52	527	1	0.38	21	510	164	0.07	<5	8	26	20	0.27	<10
22533		30	0.51	535	2	0.56	19	460	495	0.11	<5	7	33	20	0.24	<10
22534		20	0.35	375	3	0.40	14	300	51	0.01	<5	5	24	<20	0.16	<10
22535		20	0.50	489	2	0.65	18	350	92	0.02	<5	7	35	<20	0.22	<10
22536		30	0.44	409	2	0.66	16	340	37	0.02	<5	6	34	20	0.20	<10
22537		<10	0.03	75	7	0.03	6	20	20	0.01	<5	<1	1	<20	0.01	<10
22538		<10	0.02	84	3	0.02	3	10	64	0.03	<5	<1	<1	<20	0.01	<10
22539		<10	0.08	144	5	0.07	6	60	38	0.01	<5	1	4	<20	0.02	<10
22540		10	0.06	91	4	0.06	7	60	44	0.01	<5	1	4	<20	0.03	<10
22541		10	0.33	563	4	0.09	10	100	122	0.25	<5	2	6	<20	0.06	<10
22544		10	0.35	513	8	0.18	10	140	37	0.01	<5	2	11	<20	0.08	<10
22549		30	0.60	492	1	0.50	17	420	60	0.01	<5	8	20	20	0.23	<10
22550		<10	0.03	45	1	1.19	13	480	29	0.06	<5	<1	19	<20	0.02	10
22555		30	0.57	511	2	0.68	18	420	1890	0.09	<5	7	37	20	0.21	<10
22560		40	0.67	545	<1	0.57	20	470	60	<0.01	<5	9	38	20	0.25	<10
22561		30	1.05	824	<1	0.38	35	530	49	0.01	<5	14	28	20	0.31	<10
22562		40	0.99	761	1	0.37	33	520	69	0.01	<5	14	28	20	0.31	<10
22566		30	0.48	369	2	1.07	17	380	71	0.01	<5	6	61	<20	0.19	<10
22567																
22568		30	0.46	417	2	0.99	16	400	43	0.01	<5	6	45	20	0.22	<10
22569		30	0.45	404	2	0.78	16	410	47	0.01	<5	6	38	20	0.22	<10
22570		10	0.26	387	2	0.15	10	170	8590	5.14	<5	2	7	<20	0.08	<10
22571		10	0.31	504	2	0.26	14	180	8570	5.63	<5	3	13	<20	0.10	<10
22572		<10	0.30	511	<1	0.07	25	80	>10000	>10.0	<5	1	4	<20	0.04	<10
22573		<10	0.19	280	4	0.02	14	20	7390	3.99	<5	1	<1	<20	0.02	<10
22574		<10	0.32	339	5	0.02	14	20	1990	3.00	<5	1	<1	<20	0.02	<10
22575		50	1.79	794	56	2.12	2330	1020	2050	0.38	5	17	298	20	0.65	<10
22576		10	0.34	458	5	0.05	12	80	1540	1.54	<5	2	3	<20	0.04	<10
22577		<10	0.37	542	2	0.09	23	80	715	5.07	<5	2	5	<20	0.05	<10
22578		<10	0.22	362	6	0.06	13	50	2770	3.11	<5	1	3	<20	0.03	<10
22579		<10	0.12	219	7	0.04	8	70	1500	0.82	<5	1	2	<20	0.04	<10
22580		<10	0.05	149	9	0.01	13	20	956	0.55	<5	<1	<1	<20	0.01	<10
22581		<10	0.12	249	11	0.05	39	80	368	0.38	<5	1	2	<20	0.03	<10
22426		40	0.75	368	1	0.74	24	490	139	0.06	<5	10	39	20	0.27	<10
22521		30	0.38	408	2	0.96	13	410	57	0.01	<5	5	66	20	0.17	<10
22522		30	0.28	426	4	0.82	9	330	62	0.02	<5	3	58	20	0.13	<10
22523		40	0.65	698	2	0.77	18	510	118	0.04	<5	9	52	20	0.26	10



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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	Ag-OG62 Ag ppm 1	Cu-OG62 Cu % 0.001	Pb-OG62 Pb % 0.001	Zn-OG62 Zn % 0.001	Au-ICP22 Au ppm 0.001	PUL-QC Pass75um % 0.01
22529		<10	13	10	>10000			1.595	2.05	0.007	
22530		<10	16	10	>10000				1.105	0.002	
22531		<10	17	10	>10000				3.62	0.005	
22532		<10	42	<10	770					0.001	
22533		<10	36	<10	1040					0.001	92.0
22534		<10	25	<10	156					<0.001	
22535		<10	35	<10	301					<0.001	
22536		<10	30	<10	282					<0.001	
22537		<10	2	10	110					<0.001	
22538		<10	1	10	338					<0.001	
22539		<10	4	10	313					0.001	
22540		<10	4	10	199					<0.001	
22541		<10	15	10	714					0.002	
22544		<10	14	<10	226					<0.001	
22549		<10	40	10	175					<0.001	
22550		<10	3	<10	328					0.360	
22555		<10	36	<10	475					0.001	
22560		<10	44	10	103					<0.001	
22561		<10	72	<10	222					<0.001	
22562		<10	71	<10	228					<0.001	
22566		<10	29	10	110					<0.001	
22567											
22568		<10	32	10	119					<0.001	
22569		<10	33	10	169					0.001	
22570		<10	12	10	>10000				7.99	0.008	
22571		<10	17	20	>10000		1.070		7.37	0.010	
22572		<10	8	10	>10000	151	3.30	3.43	12.75	0.048	
22573		<10	4	20	>10000		1.395		3.58	0.013	
22574		<10	5	30	>10000		1.035		2.48	0.012	
22575		<10	139	<10	1070					0.494	
22576		<10	10	430	>10000				1.540	0.009	
22577		<10	10	10	>10000		2.11		3.72	0.012	
22578		<10	7	1090	>10000				3.11	0.017	
22579		<10	6	140	5580					0.007	
22580		<10	2	330	3450					0.004	
22581		<10	5	1230	3460					0.004	
22426		<10	48	10	582					0.001	
22521		<10	24	10	100					0.001	
22522		<10	17	20	99					<0.001	
22523		<10	45	10	469					0.001	



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Sample Description	Method Analyte Units LOR	WEI-21	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
		Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K
		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%
		0.02	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01
22524		2.56	57.5	4.39	<5	310	1.6	203	0.06	86.7	71	27	>10000	6.64	10	1.57





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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	ME-ICP61
		La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl
		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
22524		10	0.61	856	1	0.28	20	150	>10000	5.43	6	4	15	<20	0.11	<10



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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	Ag-OG62 Ag ppm 1	Cu-OG62 Cu % 0.001	Pb-OG62 Pb % 0.001	Zn-OG62 Zn % 0.001	Au-ICP22 Au ppm 0.001	PUL-QC Pass75um % 0.01
22524		<10	29	10	>10000		1.095	2.93	5.55	0.006	



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	CERTIFICATE COMMENTS
	<p style="text-align: center;"><b>ANALYTICAL COMMENTS</b></p> <p>Applies to Method: NSS is non-sufficient sample. ALL METHODS</p> <p style="text-align: center;"><b>ACCREDITATION COMMENTS</b></p> <p>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</p> <p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>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            Ag-OG62 Au-ICP22 Cu-OG62 ME-ICP61            ME-OG62 Pb-OG62 Zn-OG62</p> <p>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</p>