



Australian Laboratory Services Pty. Ltd.

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Finalized Date: 8-SEP-2017  
Account: TODRIV

## CERTIFICATE AD17182188

P.O. No.: TRR17-010

This report is for 61 Percussion samples submitted to our lab in Adelaide, SA,  
Australia on 31-AUG-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
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 AD17182188

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
W18261		1.13	<0.5	5.65	<5	390	1.7	<2	0.44	<0.5	6	164	16	8.06	20	1.30
W18264		1.36	<0.5	8.23	<5	130	1.4	<2	0.82	<0.5	3	24	8	1.48	20	1.31
W18269		1.66	<0.5	10.05	<5	270	4.4	<2	0.03	<0.5	7	152	27	4.99	20	2.76
W18274		3.49	<0.5	9.46	<5	500	5.7	<2	0.03	<0.5	14	96	28	5.13	20	3.97
W18275		0.06	<0.5	15.75	28	40	<0.5	<2	0.01	<0.5	2	149	7	14.95	50	0.14
W18281		3.51	<0.5	9.53	<5	740	8.2	2	0.04	<0.5	31	123	84	6.48	20	4.78
W18286		1.96	<0.5	10.45	<5	510	8.9	<2	0.04	<0.5	32	120	24	7.59	20	3.69
W18291		1.81	<0.5	9.21	<5	320	5.8	2	0.07	<0.5	56	115	24	6.59	30	3.47
W18296		3.39	<0.5	6.59	8	130	3.2	5	0.30	<0.5	71	10	111	10.05	20	2.25
W18302		3.86	<0.5	8.32	<5	850	1.7	<2	0.14	<0.5	17	12	3	3.40	20	3.29
W18307		2.66	<0.5	6.44	<5	180	1.1	<2	3.27	0.6	66	16	99	11.10	20	1.59
W18312		3.95	<0.5	8.38	<5	260	0.8	<2	2.62	<0.5	29	17	49	6.06	30	2.63
W18318		1.71	<0.5	8.31	<5	170	1.3	<2	3.98	<0.5	32	20	51	6.35	20	1.53
W18323		1.62	<0.5	7.11	<5	180	1.8	<2	4.93	<0.5	43	25	75	8.85	20	1.42
W18328		3.76	<0.5	7.62	<5	80	1.1	<2	1.21	<0.5	43	18	169	8.18	20	0.87
W18333		1.72	<0.5	9.31	7	540	0.6	<2	2.56	<0.5	13	11	9	3.17	30	3.54
W18334		1.73	<0.5	10.40	<5	440	0.9	<2	3.41	<0.5	12	10	4	2.70	30	3.29
W18335		1.56	<0.5	9.89	9	310	0.8	<2	3.40	<0.5	19	17	17	4.14	30	2.64
W18336		2.01	<0.5	9.82	<5	260	0.8	<2	3.10	<0.5	18	19	14	4.03	30	2.49
W18337		1.39	<0.5	7.31	<5	170	0.6	<2	2.24	1.7	9	14	21	1.77	20	1.68
W18338		1.20	<0.5	7.70	<5	190	0.6	<2	5.89	0.7	46	35	80	8.67	20	1.52
W18339		1.79	<0.5	7.54	<5	160	0.6	<2	6.34	0.7	51	36	85	9.10	20	1.29
W18340		2.08	<0.5	7.36	<5	160	0.6	<2	6.21	0.5	48	35	88	8.65	20	1.23
W18341		2.13	<0.5	7.59	<5	200	0.6	<2	4.61	<0.5	41	34	89	8.05	20	1.87
W18343		2.13	<0.5	7.84	<5	210	0.8	<2	2.96	<0.5	21	21	38	4.09	20	1.86
W18348		0.92	<0.5	8.70	<5	260	1.0	<2	2.29	<0.5	31	25	53	6.29	30	2.80
W18349		3.43	<0.5	8.36	<5	290	1.1	<2	2.83	<0.5	37	28	85	7.02	30	2.68
W18350		2.38	<0.5	7.09	<5	210	1.1	<2	2.20	<0.5	31	26	129	6.48	20	1.62
W18350A		0.05	<0.5	5.51	15	30	1.0	<2	1.67	<0.5	27	45	40	2.70	20	3.76
W18351		2.35	<0.5	7.93	<5	180	1.6	3	2.16	<0.5	37	29	76	8.04	20	1.46
W18352		2.25	<0.5	7.51	<5	200	1.3	2	3.55	<0.5	48	30	93	8.13	20	1.59
W18353		2.37	<0.5	7.06	<5	130	1.2	<2	2.27	<0.5	45	29	107	8.24	20	1.04
W18358		1.81	<0.5	7.46	<5	140	0.9	<2	1.43	0.5	37	25	125	6.84	20	1.24
W18364		1.39	<0.5	7.84	<5	250	0.9	<2	4.07	<0.5	44	37	82	8.52	20	2.24
W18363		3.26	<0.5	7.95	<5	250	0.9	<2	4.07	<0.5	44	36	78	8.53	20	2.27
W18369		1.69	<0.5	9.14	<5	430	0.6	3	2.45	<0.5	29	20	34	6.20	30	3.21
W18374		Not Recvd														
W18380		2.16	<0.5	8.73	<5	170	0.7	4	4.44	<0.5	37	46	74	6.74	30	1.78
W18385		2.04	<0.5	9.53	<5	290	0.8	<2	3.33	<0.5	30	31	54	5.67	30	3.06
W18390		2.01	<0.5	8.25	6	190	0.6	<2	6.09	<0.5	46	56	68	7.85	20	1.80



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## CERTIFICATE OF ANALYSIS AD17182188

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 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 5	ppm 1	ppm 1	ppm 20	% 0.01	ppm 10
W18261		20	0.43	248	1	0.21	18	170	11	0.21	<5	11	45	30	0.32	<10
W18264		40	0.19	40	1	0.22	8	110	29	0.76	<5	8	43	<20	0.07	<10
W18269		50	0.35	85	<1	0.24	29	230	14	0.04	<5	23	11	20	0.33	<10
W18274		110	0.59	143	<1	0.22	38	270	24	0.04	<5	24	24	40	0.40	<10
W18275		<10	0.02	349	18	0.01	8	100	13	0.05	<5	8	4	50	0.86	<10
W18281		90	1.20	270	2	0.25	67	280	22	0.04	<5	20	55	20	0.38	<10
W18286		40	0.97	243	2	0.34	66	360	<2	0.04	<5	41	32	<20	0.29	<10
W18291		30	1.32	407	<1	0.36	76	170	<2	0.04	<5	19	16	<20	0.53	<10
W18296		10	2.23	882	<1	0.45	94	1000	3	0.02	<5	44	31	<20	0.99	<10
W18302		70	0.81	198	2	1.60	20	340	33	0.02	<5	8	112	60	0.33	<10
W18307		20	2.42	2170	<1	0.64	34	770	7	0.01	<5	47	195	<20	0.97	<10
W18312		10	1.85	706	1	1.69	22	1690	9	0.02	<5	17	138	<20	0.62	<10
W18318		10	2.07	981	1	2.01	24	730	33	0.01	<5	28	214	<20	0.54	10
W18323		10	3.15	1685	<1	1.46	35	770	18	0.13	<5	39	130	<20	0.70	<10
W18328		20	5.44	1140	1	1.54	36	2850	58	0.03	<5	26	34	<20	0.59	10
W18333		140	0.92	400	1	2.79	12	430	33	0.02	<5	6	223	120	0.37	<10
W18334		280	0.76	335	1	3.15	13	650	49	0.01	<5	5	259	240	0.31	<10
W18335		50	1.21	484	1	2.93	14	300	27	0.03	<5	8	233	50	0.48	<10
W18336		30	1.21	425	2	2.97	13	230	19	0.03	<5	7	210	20	0.45	<10
W18337		20	0.52	250	3	2.69	5	140	76	0.07	<5	4	148	20	0.19	<10
W18338		10	3.69	1675	2	1.37	45	520	57	0.10	<5	41	120	<20	0.66	<10
W18339		10	3.98	1670	1	1.59	54	550	24	0.13	<5	44	112	<20	0.66	<10
W18340		10	3.75	1570	1	1.46	48	550	15	0.12	<5	42	127	<20	0.65	<10
W18341		10	3.32	1335	1	1.11	43	1010	21	0.11	<5	35	124	<20	0.67	<10
W18343		10	1.76	629	2	2.05	20	690	17	0.06	<5	15	135	<20	0.30	<10
W18348		10	2.92	882	1	2.19	30	2630	17	0.14	<5	19	102	<20	0.50	<10
W18349		10	3.19	1005	2	1.78	36	2000	10	0.18	<5	26	117	<20	0.56	10
W18350		10	3.79	1030	1	1.51	34	680	14	0.10	<5	27	77	<20	0.42	<10
W18350A		<10	0.80	353	9	1.51	30	600	34	0.02	<5	8	71	<20	0.30	10
W18351		20	5.25	1135	1	1.76	41	740	<2	0.02	<5	39	44	<20	0.55	10
W18352		10	4.22	1350	1	1.53	45	580	5	0.21	<5	41	98	<20	0.63	<10
W18353		20	4.70	1275	1	1.53	41	520	6	0.14	<5	39	53	<20	0.59	<10
W18358		10	4.46	885	1	2.44	32	810	9	0.03	<5	20	48	<20	0.59	<10
W18364		10	3.91	1315	<1	1.10	41	760	<2	0.21	<5	40	108	<20	0.65	10
W18363		10	3.92	1325	1	1.15	43	830	2	0.21	<5	40	107	<20	0.67	<10
W18369		80	2.20	719	80	3.00	28	2960	26	0.17	<5	14	156	60	0.74	<10
W18374																
W18380		20	3.56	1020	1	2.77	40	>10000	16	0.08	<5	22	135	<20	0.55	<10
W18385		10	2.50	712	1	2.83	34	5850	14	0.04	<5	15	207	<20	0.50	<10
W18390		10	4.12	1475	1	1.69	57	2570	18	0.10	<5	38	144	<20	0.50	<10



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**CERTIFICATE OF ANALYSIS AD17182188**

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 10	ppm 1	ppm 10	ppm 2	ppm 0.001	% 0.01
W18261		<10	223	<10	146	0.001	
W18264		<10	19	<10	21	0.001	
W18269		<10	78	<10	27	0.001	
W18274		<10	100	<10	57	0.001	
W18275		<10	430	<10	<2	0.001	
W18281		<10	111	<10	194	0.001	94.0
W18286		<10	124	<10	145	0.001	
W18291		<10	132	<10	203	0.001	
W18296		<10	431	<10	161	0.001	
W18302		<10	87	<10	81	0.001	
W18307		<10	325	<10	144	0.001	
W18312		<10	144	<10	158	0.001	
W18318		<10	193	<10	128	0.001	
W18323		<10	267	<10	158	0.001	
W18328		<10	212	<10	238	0.003	
W18333		<10	75	<10	84	0.001	
W18334		<10	65	<10	77	0.001	
W18335		<10	101	<10	124	0.001	
W18336		<10	98	<10	162	0.001	
W18337		<10	38	<10	374	0.001	
W18338		<10	265	<10	193	0.001	
W18339		<10	275	<10	133	0.001	
W18340		<10	266	<10	129	0.001	
W18341		<10	243	<10	162	0.001	
W18343		<10	115	<10	95	0.001	
W18348		<10	171	<10	152	0.001	
W18349		<10	191	<10	150	0.001	
W18350		<10	184	<10	149	0.001	
W18350A		<10	66	<10	59	0.017	
W18351		<10	247	<10	173	0.001	
W18352		<10	262	<10	149	0.002	
W18353		<10	248	<10	178	0.002	
W18358		<10	221	<10	165	0.001	
W18364		<10	268	<10	144	0.001	
W18363		<10	270	<10	142	0.001	
W18369		<10	167	<10	144	0.001	
W18374							
W18380		<10	203	<10	153	0.002	
W18385		<10	151	<10	135	0.001	
W18390		<10	235	<10	122	0.001	



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W18391		2.11	<0.5	9.37	<5	270	1.1	<2	4.07	<0.5	16	24	18	3.68	30	2.39
W18395		2.71	<0.5	7.34	<5	140	0.7	3	6.27	0.5	49	33	75	8.40	20	1.59
W18401		2.52	<0.5	7.26	10	110	1.0	<2	5.97	<0.5	44	85	54	7.71	20	0.98
W18406		2.19	<0.5	7.57	<5	230	0.7	<2	3.68	0.5	40	73	92	7.55	20	2.46
W18411		2.95	<0.5	8.55	<5	330	0.9	<2	3.59	<0.5	31	139	25	6.72	40	2.86
W18416		2.55	<0.5	8.54	5	1030	2.7	<2	0.92	<0.5	21	126	79	5.46	20	4.45
W18422		1.96	<0.5	7.61	<5	250	1.8	<2	1.18	<0.5	31	384	241	5.69	20	1.33
W18428		2.47	<0.5	9.77	<5	1170	4.7	<2	0.49	<0.5	18	97	36	5.36	30	3.88
W18433		3.06	<0.5	7.45	<5	640	2.5	<2	0.70	<0.5	16	109	24	3.84	20	3.27
W18438		2.69	<0.5	7.03	<5	280	2.4	<2	1.24	<0.5	27	124	85	5.66	20	1.62
W18443		2.73	<0.5	7.41	8	280	2.0	<2	1.48	<0.5	37	330	145	6.36	20	1.87
W18448		3.60	<0.5	7.73	<5	170	2.2	4	1.14	<0.5	35	439	63	6.72	20	1.43
W18450		0.05	0.5	4.94	<5	10	1.2	<2	0.13	0.6	1	13	202	0.23	10	3.74
W18454		2.87	<0.5	8.07	<5	980	2.7	<2	0.77	<0.5	19	124	23	5.04	20	4.04
W18459		3.05	<0.5	6.20	<5	120	1.4	<2	1.96	<0.5	46	762	80	6.76	20	0.68
W18464		3.28	<0.5	7.69	<5	820	2.4	<2	0.85	<0.5	16	131	13	4.15	20	3.57
W18469		2.37	<0.5	8.18	<5	770	4.9	2	0.49	<0.5	15	75	22	4.48	20	3.06
W18470		2.41	<0.5	8.48	<5	840	4.9	<2	0.49	<0.5	15	87	22	4.73	20	3.18
W18476		3.68	<0.5	7.60	<5	1120	4.3	<2	0.45	<0.5	11	76	52	3.24	20	3.91
W18481		3.00	<0.5	8.10	<5	850	6.2	<2	0.58	<0.5	17	132	32	4.93	20	4.16
W18371		1.91	<0.5	8.13	<5	260	0.5	<2	5.10	<0.5	45	26	59	7.81	20	2.31



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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
W18391		10	1.51	525	3	3.53	20	6080	14	0.03	<5	9	243	<20	0.30	<10
W18395		10	4.07	1460	1	1.67	49	510	7	0.11	<5	46	136	<20	0.59	<10
W18401		10	4.33	1280	<1	2.49	52	570	<2	0.07	<5	40	80	<20	0.62	<10
W18406		10	3.65	1015	<1	1.28	43	1820	2	0.14	<5	34	131	<20	0.64	<10
W18411		20	3.04	621	1	2.66	54	8910	3	0.11	<5	11	141	<20	0.71	10
W18416		40	2.41	498	2	1.78	43	440	18	0.24	<5	21	170	20	0.45	10
W18422		30	5.54	676	<1	1.30	110	700	<2	0.03	<5	23	70	<20	0.43	<10
W18428		40	1.67	453	1	0.57	41	330	17	0.25	<5	19	120	20	0.43	10
W18433		40	2.31	415	2	1.62	41	400	14	0.02	<5	12	108	20	0.33	10
W18438		20	3.92	633	2	1.71	79	390	14	0.04	<5	17	77	<20	0.59	<10
W18443		30	6.23	843	<1	0.95	181	460	2	0.04	<5	23	51	<20	0.82	<10
W18448		20	6.20	773	<1	1.02	161	1550	5	0.02	<5	28	43	<20	0.50	<10
W18450		<10	0.04	48	<1	1.25	11	490	27	0.07	<5	<1	20	<20	0.02	10
W18454		50	2.17	618	2	1.30	45	360	18	0.06	<5	21	135	20	0.36	<10
W18459		20	8.87	899	1	0.37	327	740	<2	0.01	<5	25	17	<20	0.38	<10
W18464		50	1.84	470	1	1.21	46	320	20	0.03	<5	12	122	30	0.37	<10
W18469		50	1.47	509	1	1.17	31	240	7	0.03	<5	16	68	20	0.31	<10
W18470		40	1.63	536	2	1.15	37	270	10	0.04	<5	15	66	20	0.32	<10
W18476		30	1.36	290	2	0.92	30	260	19	0.03	<5	4	92	20	0.25	<10
W18481		40	1.92	624	1	0.85	45	320	13	0.05	<5	16	78	20	0.30	<10
W18371		20	3.70	1410	1	1.69	46	2280	11	0.11	<5	37	128	<20	0.59	<10



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**CERTIFICATE OF ANALYSIS AD17182188**

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	Au-ICP22 Au ppm 0.001	PUL-QC Pass75um %
W18391		<10	88	<10	76	0.001	
W18395		<10	276	<10	114	0.001	
W18401		<10	258	<10	111	0.001	
W18406		<10	232	<10	128	0.001	
W18411		<10	141	<10	142	0.001	91.0
W18416		<10	114	<10	77	0.001	
W18422		<10	151	<10	140	0.002	
W18428		<10	104	<10	69	0.001	
W18433		<10	82	<10	78	0.002	
W18438		<10	133	<10	125	0.002	
W18443		<10	177	<10	129	0.002	
W18448		<10	175	<10	126	0.001	
W18450		<10	3	<10	331	0.334	
W18454		<10	93	<10	70	0.001	
W18459		<10	164	<10	143	0.001	
W18464		<10	82	<10	90	0.001	
W18469		<10	67	<10	105	0.001	
W18470		<10	70	<10	115	0.001	
W18476		<10	74	<10	130	0.001	
W18481		<10	86	<10	103	0.001	
W18371		<10	241	<10	126	0.001	



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**CERTIFICATE OF ANALYSIS AD17182188**

**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

LEV-01

LOG-22

PUL-23

PUL-QC

SPL-21

WEI-21