



Australian Laboratory Services Pty. Ltd.

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No: 825, Corporate Site No: 23001.

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Account: TODRIV

CERTIFICATE AD17182173

P.O. No.: TRR17-009

This report is for 87 Soil 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
LOG-24	Pulp 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 AD17182173

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
W17971		1.09	<0.5	6.90	<5	260	0.9	<2	1.68	<0.5	8	103	28	4.95	20	0.86
W17972		1.08	<0.5	7.05	<5	180	0.6	<2	2.76	<0.5	5	95	20	4.71	20	0.70
W17976		1.85	<0.5	6.86	5	60	0.5	<2	1.70	0.8	2	87	21	7.57	20	0.62
W17981		3.26	<0.5	9.73	<5	90	0.5	<2	0.40	0.5	4	60	38	7.82	30	0.91
W17986		2.74	<0.5	10.45	<5	100	0.6	3	0.28	<0.5	4	55	48	7.69	30	1.02
W17991		1.95	<0.5	11.40	<5	40	1.7	4	0.07	<0.5	4	50	62	7.98	30	0.62
W17996		1.85	<0.5	10.85	<5	30	4.2	<2	0.05	<0.5	11	49	80	10.20	30	0.47
W18002		2.99	<0.5	10.00	<5	40	4.7	7	0.05	<0.5	15	64	133	9.89	30	0.39
W18007		2.12	<0.5	11.00	5	270	6.0	6	0.05	<0.5	18	37	100	7.72	30	1.68
W18012		2.88	<0.5	7.48	<5	220	7.2	3	0.07	0.5	96	30	121	11.30	20	1.55
W18017		2.54	<0.5	8.64	<5	470	3.7	2	0.17	<0.5	34	69	13	4.74	20	3.01
W18022		2.28	<0.5	7.94	<5	360	1.6	<2	2.12	0.6	32	18	49	6.71	20	2.37
W18030		3.33	<0.5	7.29	<5	380	1.3	<2	2.57	<0.5	23	14	37	5.77	20	1.76
W18035		4.59	<0.5	6.61	<5	180	1.0	<2	2.30	0.6	30	21	64	6.20	20	0.88
W18040		3.37	<0.5	8.06	<5	800	3.6	<2	0.24	<0.5	17	78	8	4.62	20	3.81
W18045		3.50	<0.5	7.35	<5	860	3.5	<2	0.29	<0.5	9	45	10	2.98	20	4.15
W18051		2.43	<0.5	7.49	<5	900	3.3	<2	0.47	<0.5	9	40	17	3.67	10	3.85
W18056		1.85	<0.5	8.15	<5	260	1.4	3	2.38	0.8	40	36	162	7.99	30	2.21
W18061		3.36	<0.5	7.60	<5	170	1.0	<2	3.80	1.0	34	74	73	6.45	20	1.66
W18066		3.91	<0.5	7.39	<5	170	1.1	2	3.98	1.5	56	14	190	10.45	30	1.76
W18071		3.58	<0.5	7.60	<5	550	3.2	<2	0.48	<0.5	20	66	25	5.72	20	2.46
W18075		0.06	<0.5	16.05	24	50	<0.5	3	0.01	0.8	1	159	7	15.20	60	0.14
W18077		3.80	<0.5	7.66	<5	570	5.9	<2	0.55	<0.5	16	68	27	4.00	20	2.59
W18078		3.52	<0.5	7.97	<5	560	6.4	<2	0.59	<0.5	17	67	29	4.16	20	2.57
W18083		3.70	<0.5	8.20	<5	490	19.4	29	0.86	<0.5	16	62	28	4.48	20	2.82
W18088		4.07	<0.5	7.38	<5	540	5.6	<2	0.42	0.5	28	137	19	5.76	20	2.77
W18093		5.08	<0.5	7.55	<5	410	4.4	<2	0.81	0.5	31	60	50	6.29	20	2.64
W18098		3.63	<0.5	8.04	<5	290	3.7	3	0.63	0.5	31	98	15	6.61	30	1.94
W18104		2.99	<0.5	7.84	<5	280	2.2	<2	1.15	<0.5	22	116	7	4.70	20	2.41
W18109		4.79	<0.5	8.29	<5	780	4.4	<2	0.51	<0.5	13	78	8	3.69	20	2.84
W18114		3.41	<0.5	7.24	<5	890	4.6	<2	0.67	<0.5	14	84	53	3.52	20	3.12
W18117		2.62	<0.5	8.42	<5	780	7.0	<2	0.48	<0.5	16	77	32	4.56	20	3.58
W18118		2.83	<0.5	8.11	<5	880	5.5	<2	0.44	<0.5	14	77	48	4.03	20	3.60
W18119		3.19	<0.5	7.56	6	660	3.9	<2	0.32	<0.5	18	93	14	4.65	20	3.16
W18120		2.65	<0.5	8.26	<5	760	4.5	<2	0.29	<0.5	20	62	45	4.30	20	3.56
W18121		2.34	<0.5	8.49	<5	910	4.5	<2	0.27	<0.5	20	57	125	4.09	20	4.00
W18122		2.55	<0.5	8.09	<5	680	4.7	3	0.34	<0.5	17	65	118	4.28	20	3.11
W18123		2.49	<0.5	8.28	<5	690	4.3	<2	0.38	<0.5	21	76	149	4.72	30	3.48
W18124		2.61	<0.5	8.77	<5	650	4.4	<2	0.41	<0.5	22	88	153	5.01	30	3.57
W18125		0.05	<0.5	5.92	16	30	1.0	<2	1.75	<0.5	27	46	41	2.78	20	3.81



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CERTIFICATE OF ANALYSIS AD17182173

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 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
W17971		10	1.44	329	3	0.30	28	160	17	0.05	<5	14	76	<20	0.35	<10
W17972		10	0.80	185	2	0.28	23	90	9	0.11	<5	13	63	<20	0.38	<10
W17976		<10	0.17	159	<1	0.18	11	70	8	0.82	<5	16	69	20	0.30	<10
W17981		20	0.17	364	1	0.21	41	330	17	0.04	<5	24	16	40	1.26	<10
W17986		50	0.17	265	<1	0.23	39	480	56	0.04	<5	26	22	40	1.04	<10
W17991		100	0.13	508	<1	0.30	49	790	44	0.07	<5	59	23	<20	1.28	10
W17996		50	0.10	421	<1	0.27	64	960	21	0.05	<5	51	14	<20	1.14	<10
W18002		50	0.09	475	<1	0.25	56	850	23	0.05	<5	51	16	<20	1.46	10
W18007		80	0.15	217	1	0.25	41	1020	36	0.04	<5	30	48	30	1.42	<10
W18012		10	1.03	1060	1	0.32	100	590	9	0.03	<5	39	20	<20	1.29	<10
W18017		110	0.95	282	1	0.68	62	600	9	0.03	<5	12	35	60	0.51	<10
W18022		20	1.46	717	1	1.28	19	1250	14	0.04	<5	23	159	<20	0.56	<10
W18030		30	1.23	660	1	1.54	11	530	25	0.01	<5	21	242	<20	0.46	<10
W18035		30	1.85	1000	<1	1.01	15	380	9	0.01	<5	24	203	20	0.49	<10
W18040		20	1.80	537	<1	1.12	32	350	22	0.01	<5	22	93	20	0.30	<10
W18045		70	0.88	385	1	0.86	23	310	24	0.01	<5	12	103	40	0.20	<10
W18051		50	0.77	741	1	1.20	16	320	26	0.03	<5	33	131	30	0.16	<10
W18056		40	2.77	701	1	1.19	29	610	17	0.23	<5	26	192	20	0.79	<10
W18061		20	2.78	951	2	1.01	40	740	11	0.08	<5	29	184	<20	0.55	<10
W18066		20	2.62	1140	1	0.77	35	1680	7	0.23	<5	39	222	<20	1.16	<10
W18071		40	2.35	733	2	1.06	30	360	22	0.10	<5	36	77	20	0.34	<10
W18075		<10	0.02	356	18	0.01	9	110	18	0.05	<5	7	4	50	0.88	<10
W18077		60	1.26	345	2	1.50	30	270	11	0.04	<5	5	94	30	0.43	<10
W18078		50	1.32	358	1	1.65	31	280	15	0.04	<5	6	98	30	0.48	10
W18083		50	1.56	504	2	1.05	31	1160	33	0.10	<5	15	85	30	0.35	<10
W18088		50	2.09	695	2	0.90	65	670	9	0.06	<5	14	49	30	0.51	<10
W18093		60	1.85	638	1	1.21	43	340	10	0.14	<5	24	103	40	0.50	<10
W18098		40	2.79	698	1	1.80	66	310	11	0.04	<5	20	74	30	0.61	<10
W18104		20	1.88	410	1	1.80	48	210	15	0.03	<5	15	108	<20	0.48	<10
W18109		20	1.72	496	2	1.31	38	260	10	0.02	<5	8	78	<20	0.25	<10
W18114		50	1.24	444	2	1.25	49	270	21	0.10	<5	10	121	20	0.29	<10
W18117		60	1.30	416	1	0.96	36	270	19	0.05	<5	13	86	30	0.37	<10
W18118		50	1.20	362	2	1.10	33	280	34	0.07	<5	13	109	30	0.30	<10
W18119		60	1.52	441	1	0.97	38	320	13	0.05	<5	9	74	30	0.44	10
W18120		50	1.52	352	2	0.92	37	320	18	0.19	<5	6	77	20	0.30	<10
W18121		50	1.35	311	1	0.93	30	320	25	0.22	<5	8	94	20	0.29	<10
W18122		50	1.29	319	2	0.93	31	270	7	0.15	<5	6	56	30	0.34	10
W18123		50	1.29	339	<1	0.87	41	280	11	0.15	<5	6	78	30	0.38	<10
W18124		50	1.32	341	1	0.89	41	280	8	0.18	<5	6	73	30	0.40	<10
W18125		<10	0.82	366	9	1.55	31	640	35	0.02	<5	9	76	<20	0.31	10



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CERTIFICATE OF ANALYSIS AD17182173

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
W17971		<10	110	<10	551	0.001	
W17972		<10	117	<10	131	<0.001	
W17976		<10	151	<10	21	0.001	
W17981		<10	352	<10	65	<0.001	
W17986		<10	309	<10	71	<0.001	90.0
W17991		<10	315	<10	81	<0.001	
W17996		10	381	<10	68	0.003	
W18002		<10	429	<10	76	<0.001	
W18007		<10	368	<10	108	<0.001	
W18012		<10	438	<10	256	0.001	
W18017		<10	122	<10	102	<0.001	
W18022		<10	189	<10	115	0.001	
W18030		<10	165	<10	91	0.001	
W18035		<10	181	<10	113	<0.001	
W18040		<10	67	<10	78	0.001	
W18045		<10	54	<10	50	<0.001	
W18051		<10	46	<10	47	<0.001	
W18056		<10	263	<10	140	0.001	
W18061		<10	195	<10	116	0.001	
W18066		<10	628	<10	129	0.001	
W18071		<10	98	<10	110	<0.001	
W18075		10	423	<10	4	0.001	
W18077		<10	65	<10	72	<0.001	
W18078		<10	73	<10	74	<0.001	
W18083		<10	93	10	88	0.003	
W18088		<10	116	<10	128	<0.001	
W18093		<10	162	<10	109	0.001	
W18098		<10	157	<10	121	<0.001	
W18104		<10	93	<10	92	<0.001	
W18109		<10	60	<10	75	<0.001	
W18114		<10	76	<10	76	0.001	
W18117		<10	114	<10	77	0.001	
W18118		<10	93	<10	71	0.001	
W18119		<10	90	<10	133	0.001	
W18120		<10	74	<10	89	0.001	
W18121		<10	83	<10	79	0.004	
W18122		<10	83	<10	78	0.002	
W18123		<10	83	<10	83	0.004	
W18124		<10	85	<10	87	0.004	
W18125		<10	67	<10	60	0.018	



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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
W18126		0.82	<0.5	8.51	<5	730	4.1	<2	0.44	<0.5	16	66	46	4.50	30	3.49
W18127		3.95	<0.5	8.73	<5	700	4.5	<2	0.41	<0.5	18	72	16	4.93	30	3.37
W18128		2.90	<0.5	8.10	<5	820	3.6	<2	0.36	<0.5	12	65	21	4.21	20	3.83
W18129		2.46	<0.5	9.27	<5	800	4.4	<2	0.38	<0.5	20	79	194	5.11	30	4.05
W18130		2.64	<0.5	8.09	<5	730	3.2	2	0.40	0.5	15	75	57	4.45	30	3.22
W18131		2.69	<0.5	9.26	<5	590	4.2	<2	0.71	<0.5	19	87	68	4.91	30	3.18
W18132		1.77	<0.5	9.81	<5	730	4.3	<2	0.56	<0.5	22	111	129	5.89	30	3.87
W18133		3.21	<0.5	10.10	<5	880	4.4	<2	0.41	<0.5	17	91	73	5.16	30	4.41
W18134		Not Recvd														
W18135		3.84	<0.5	8.19	<5	750	3.1	<2	0.40	<0.5	12	59	12	3.88	20	3.34
W18140		3.78	<0.5	8.02	<5	620	3.5	<2	0.47	<0.5	15	81	7	3.88	20	2.84
W18146		3.57	<0.5	8.49	<5	690	3.2	<2	0.55	<0.5	13	67	14	4.07	20	2.94
W18152		4.50	<0.5	7.06	5	480	7.9	<2	0.50	<0.5	14	85	6	3.51	20	2.10
W18157		2.58	<0.5	6.96	<5	200	3.1	<2	0.58	0.7	34	374	17	8.26	20	1.51
W18162		2.88	<0.5	7.74	5	470	3.7	<2	0.57	<0.5	19	95	32	4.51	20	2.84
W18167		2.82	<0.5	8.47	<5	680	3.6	<2	0.44	<0.5	14	79	23	3.96	20	3.64
W18172		3.76	<0.5	8.60	<5	790	3.4	<2	0.65	<0.5	12	73	19	4.03	20	3.87
W18178		2.35	<0.5	9.57	<5	690	4.6	3	0.49	<0.5	27	93	21	6.25	30	4.12
W18183		3.63	<0.5	7.21	<5	560	3.8	2	0.47	<0.5	22	73	31	4.70	20	2.42
W18184		2.85	<0.5	7.10	<5	520	3.8	<2	0.47	<0.5	24	75	40	4.82	20	2.40
W18189		0.99	<0.5	7.46	<5	500	2.9	<2	0.92	<0.5	17	60	15	4.47	20	2.24
W18194		2.90	<0.5	7.97	<5	680	1.8	2	0.94	<0.5	17	77	9	4.10	20	2.98
W18199		3.19	<0.5	8.53	<5	880	2.4	<2	0.64	<0.5	11	52	15	3.04	20	4.19
W18200		0.05	0.5	4.76	<5	10	1.1	<2	0.13	0.7	1	12	197	0.21	10	4.35
W18203		3.85	<0.5	7.89	<5	410	4.8	<2	0.58	<0.5	21	178	24	5.25	20	2.33
W18204		3.28	<0.5	8.39	<5	660	3.4	<2	0.69	0.5	19	98	58	4.82	20	2.87
W18205		2.64	<0.5	7.93	<5	690	3.0	<2	0.60	<0.5	13	70	13	4.02	20	2.88
W18206		2.73	<0.5	7.99	<5	730	2.8	<2	0.63	<0.5	13	69	13	3.93	20	3.01
W18207		2.56	<0.5	7.85	<5	670	4.0	<2	0.63	<0.5	13	70	22	3.93	20	2.81
W18208		2.53	<0.5	8.62	<5	570	44.2	14	0.56	<0.5	12	63	15	3.63	20	3.03
W18209		2.71	<0.5	7.11	7	570	2.6	<2	0.66	<0.5	14	69	10	3.96	20	2.40
W18210		3.05	<0.5	7.61	<5	690	2.8	<2	0.62	<0.5	12	68	15	3.72	20	2.88
W18211		2.27	<0.5	7.36	<5	700	2.3	<2	0.83	<0.5	13	48	18	3.30	20	3.14
W18212		3.17	<0.5	7.31	<5	370	0.9	<2	2.90	0.7	27	25	92	6.13	20	2.02
W18213		3.14	<0.5	9.63	<5	480	0.7	<2	3.24	0.7	30	17	69	6.33	30	2.47
W18214		2.70	<0.5	7.33	<5	220	0.9	<2	3.78	0.7	32	35	110	6.91	20	1.83
W18215		2.17	<0.5	7.28	5	610	2.0	2	0.92	<0.5	16	66	25	3.70	20	2.72
W18216		4.05	<0.5	6.23	<5	650	1.3	<2	0.89	<0.5	6	38	9	1.76	10	3.34
W18220		3.03	<0.5	7.11	5	910	1.2	<2	0.65	<0.5	3	25	5	1.08	10	4.63
W18226		2.89	<0.5	7.73	<5	690	2.8	<2	0.39	<0.5	17	68	49	4.28	20	3.89



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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 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
W18126		50	1.13	311	1	1.26	36	300	16	0.08	<5	5	104	30	0.35	<10
W18127		50	1.37	340	1	0.81	36	290	3	0.05	<5	4	55	30	0.38	10
W18128		50	1.11	283	1	0.97	30	300	17	0.05	<5	3	103	30	0.31	<10
W18129		50	1.38	332	1	0.84	32	300	14	0.20	<5	4	64	30	0.42	<10
W18130		60	1.16	301	1	1.11	22	280	17	0.04	<5	4	72	30	0.38	<10
W18131		50	1.44	353	1	1.53	40	290	14	0.08	<5	7	103	30	0.44	<10
W18132		60	1.57	404	2	1.14	47	360	13	0.20	<5	7	78	30	0.45	<10
W18133		50	1.37	325	1	0.82	38	310	8	0.08	<5	8	63	30	0.45	10
W18134																
W18135		40	1.01	279	2	1.33	26	310	17	0.03	<5	4	107	20	0.32	<10
W18140		50	1.32	311	1	1.11	33	280	14	0.02	<5	5	76	20	0.34	<10
W18146		40	1.21	371	2	1.34	32	350	19	0.11	<5	5	97	20	0.32	<10
W18152		40	1.06	410	2	1.68	28	530	11	0.04	<5	6	99	30	0.28	<10
W18157		30	3.36	914	1	0.84	90	540	9	0.05	<5	22	44	20	0.60	<10
W18162		50	1.41	432	2	1.15	38	300	7	0.04	<5	11	79	20	0.40	<10
W18167		40	1.16	350	1	1.08	27	290	15	0.03	<5	7	89	20	0.34	<10
W18172		50	1.11	376	1	1.23	30	380	41	0.04	<5	8	135	20	0.36	<10
W18178		50	1.57	585	1	0.81	48	310	90	0.06	<5	15	58	30	0.63	<10
W18183		50	1.07	517	2	1.17	31	280	7	0.12	<5	9	80	20	0.46	<10
W18184		50	1.15	557	1	1.12	36	280	8	0.14	<5	10	78	30	0.57	<10
W18189		50	1.21	486	<1	1.52	33	290	16	0.07	<5	19	129	20	0.50	10
W18194		50	1.23	429	1	1.26	29	280	16	0.02	<5	18	113	30	0.44	<10
W18199		30	1.03	324	3	1.36	21	360	33	0.02	<5	9	133	20	0.29	<10
W18200		<10	0.03	45	1	1.19	10	500	26	0.06	<5	<1	20	<20	0.02	10
W18203		30	1.98	601	2	1.47	63	310	16	0.12	<5	12	73	20	0.36	<10
W18204		50	1.54	508	1	1.02	38	340	22	0.06	<5	11	80	30	0.42	<10
W18205		50	1.12	419	2	0.93	28	270	20	0.03	<5	8	87	20	0.34	<10
W18206		40	1.04	426	2	1.04	28	280	20	0.02	<5	7	99	20	0.32	<10
W18207		50	1.06	580	2	1.20	29	270	16	0.03	<5	9	95	30	0.33	10
W18208		40	0.96	839	2	1.67	25	670	27	0.02	<5	7	82	20	0.28	<10
W18209		50	0.94	503	3	1.25	25	280	18	0.05	<5	7	88	30	0.38	<10
W18210		50	0.99	376	3	1.03	25	270	13	0.03	<5	7	88	20	0.32	<10
W18211		30	1.00	424	3	1.74	17	320	27	0.03	<5	11	139	20	0.32	<10
W18212		30	1.51	835	2	1.42	12	420	23	0.10	<5	29	186	20	0.51	<10
W18213		80	1.71	773	1	2.41	15	460	23	0.06	<5	37	219	50	0.78	<10
W18214		30	1.84	836	2	0.97	19	430	17	0.11	<5	34	213	20	0.62	<10
W18215		40	0.90	475	2	1.26	25	390	22	0.06	<5	9	132	30	0.44	<10
W18216		20	0.28	221	4	1.47	7	440	29	0.02	<5	3	192	<20	0.17	<10
W18220		10	0.20	129	3	1.71	4	380	39	0.01	<5	1	229	<20	0.08	10
W18226		50	1.00	373	2	0.83	31	270	18	0.07	<5	14	86	30	0.44	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	Au-ICP22 Au ppm 0.001	PUL-QC Pass75um %
W18126		<10	71	<10	103	0.001	
W18127		<10	80	<10	94	<0.001	
W18128		<10	68	<10	78	<0.001	
W18129		<10	78	<10	100	0.005	
W18130		<10	73	<10	88	0.001	91.0
W18131		<10	85	<10	112	0.001	
W18132		<10	108	<10	318	0.003	
W18133		<10	99	<10	134	0.001	
W18134							
W18135		<10	62	<10	89	<0.001	
W18140		<10	64	<10	86	0.001	
W18146		<10	66	10	88	<0.001	
W18152		<10	54	10	153	<0.001	
W18157		<10	180	<10	232	<0.001	
W18162		<10	79	<10	99	<0.001	
W18167		<10	66	<10	85	0.001	
W18172		<10	75	<10	91	0.001	
W18178		<10	152	<10	127	<0.001	
W18183		<10	95	<10	140	0.001	
W18184		<10	112	<10	177	<0.001	
W18189		<10	100	<10	77	<0.001	
W18194		<10	68	<10	93	<0.001	
W18199		<10	45	<10	65	<0.001	
W18200		<10	3	<10	314	0.363	
W18203		<10	89	<10	150	<0.001	
W18204		<10	91	<10	115	0.001	
W18205		<10	69	<10	91	<0.001	
W18206		<10	68	10	86	<0.001	
W18207		<10	67	10	86	<0.001	
W18208		<10	60	10	84	<0.001	
W18209		<10	66	<10	105	<0.001	
W18210		<10	61	<10	80	<0.001	
W18211		<10	60	<10	70	<0.001	
W18212		<10	186	<10	101	<0.001	
W18213		<10	173	<10	122	0.001	
W18214		<10	211	<10	120	0.001	
W18215		<10	64	10	86	<0.001	
W18216		<10	27	<10	32	0.001	
W18220		<10	13	<10	24	<0.001	
W18226		<10	81	<10	88	0.001	



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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
W18231		2.59	<0.5	7.23	<5	830	1.6	<2	0.56	<0.5	9	38	21	2.37	20	4.00
W18236		3.66	<0.5	8.03	5	770	2.3	2	0.96	0.5	18	79	31	4.69	20	3.76
W18242		3.04	<0.5	7.84	<5	690	1.7	<2	1.39	<0.5	20	59	55	4.61	20	3.36
W18247		2.76	<0.5	7.66	<5	310	2.0	<2	3.19	0.5	28	64	31	5.58	20	2.22
W18250		0.05	2.7	7.32	58	1200	1.4	<2	3.87	2.2	28	146	3740	5.60	20	2.17
W18253		2.62	<0.5	7.18	<5	530	1.6	<2	0.92	<0.5	19	63	80	4.33	20	2.50
W18258		2.38	<0.5	7.46	<5	410	2.9	<2	0.83	<0.5	16	61	29	4.49	20	2.56



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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	Ti
		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
W18231		30	0.58	262	3	1.69	15	320	30	0.03	<5	5	160	<20	0.22	<10
W18236		50	1.51	491	2	0.88	32	320	21	0.08	<5	17	119	20	0.46	<10
W18242		50	1.28	507	2	1.43	29	280	26	0.11	<5	19	153	30	0.49	<10
W18247		40	2.15	872	1	1.12	38	290	26	0.08	<5	28	159	30	0.44	<10
W18250		50	1.88	831	62	2.20	2290	1040	2130	0.41	<5	18	300	20	0.68	10
W18253		40	1.33	517	2	1.37	30	210	13	0.16	<5	17	85	20	0.38	<10
W18258		50	1.53	470	2	1.46	28	190	9	0.05	<5	14	86	30	0.46	<10

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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	ppm	ppm	ppm	ppm	%
		10	1	10	2	0.001	0.01
W18231		<10	38	<10	58	0.001	
W18236		<10	102	<10	100	0.001	
W18242		<10	95	<10	98	0.001	
W18247		<10	135	<10	132	0.001	
W18250		<10	142	<10	1110	0.464	
W18253		<10	87	<10	88	0.002	91.0
W18258		<10	107	<10	76	0.001	



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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

LOG-24
WEI-21