



Australian Laboratory Services Pty. Ltd.

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Stafford
Brisbane QLD 4053
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No: 825, Corporate Site No: 23001.

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Plus Appendix Pages
Finalized Date: 23-AUG-2017
Account: TODRIV

CERTIFICATE AD17164467

P.O. No.: TRR17-004

This report is for 85 Soil samples submitted to our lab in Adelaide, SA, Australia on 11-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
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
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 AD17164467

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
W17283		2.63	<0.5	7.40	<5	950	1.8	<2	1.46	<0.5	18	81	32	4.71	20	2.89
W17288		1.66	<0.5	6.81	<5	350	1.5	<2	1.74	<0.5	42	93	101	9.11	20	1.68
W17292		2.04	<0.5	7.43	<5	800	2.4	<2	1.08	<0.5	13	65	50	3.69	20	2.91
W17293		2.46	<0.5	6.68	<5	510	1.5	2	3.75	<0.5	37	262	74	7.01	20	2.24
W17294		2.17	<0.5	6.17	<5	390	2.0	<2	4.50	<0.5	49	374	113	8.32	20	1.89
W17298		2.14	<0.5	7.35	<5	710	2.6	<2	0.40	<0.5	12	75	41	3.53	20	3.58
W17364		1.54	<0.5	8.69	<5	670	3.2	<2	0.51	<0.5	16	93	26	4.95	20	3.57
W17365		1.33	<0.5	8.65	<5	660	3.3	<2	0.50	<0.5	18	84	30	4.60	20	4.02
W17366		2.16	<0.5	10.40	<5	860	4.2	3	0.45	<0.5	19	80	51	4.96	30	4.42
W17369		2.28	<0.5	6.30	<5	690	2.1	<2	0.95	<0.5	10	62	13	2.99	20	2.73
W17374		2.14	<0.5	6.50	<5	650	2.0	<2	1.64	<0.5	13	68	24	3.48	20	2.82
W17380		1.83	<0.5	7.00	<5	700	3.0	3	0.55	<0.5	11	55	33	3.21	20	3.07
W17385		1.44	<0.5	6.53	15	640	2.4	<2	1.73	<0.5	23	259	19	4.33	20	2.82
W17390		2.93	<0.5	6.67	5	330	1.0	5	6.00	<0.5	40	362	60	6.89	20	1.61
W17391		5.49	<0.5	6.90	5	350	1.0	<2	5.89	<0.5	40	350	71	7.38	20	1.81
W17396		1.83	<0.5	6.37	<5	680	2.9	3	0.60	<0.5	15	78	20	3.58	20	2.84
W17402		2.38	<0.5	6.35	10	610	1.9	<2	2.04	0.6	21	135	29	4.50	20	2.96
W17407		2.31	<0.5	6.02	<5	740	2.0	<2	0.81	<0.5	10	54	16	2.75	10	2.64
W17408		1.96	<0.5	6.55	<5	730	2.2	<2	0.62	<0.5	15	71	27	3.80	20	3.04
W17409		2.31	<0.5	6.22	<5	790	1.9	2	0.84	<0.5	11	59	62	2.66	20	2.85
W17412		2.16	<0.5	6.06	<5	760	1.9	<2	0.79	<0.5	9	50	12	2.62	20	2.79
W17413		2.29	<0.5	6.00	<5	800	2.1	2	0.74	<0.5	9	53	43	2.71	10	2.94
W17414		0.81	<0.5	6.00	<5	730	1.9	<2	0.53	<0.5	12	79	19	3.11	10	2.75
W17415		1.88	<0.5	8.30	<5	660	4.4	2	0.67	<0.5	16	90	16	4.25	20	3.28
W17416		1.94	<0.5	6.81	<5	740	2.7	<2	0.85	<0.5	22	130	19	4.14	20	3.09
W17417		1.68	<0.5	6.42	<5	780	2.4	4	0.82	<0.5	13	58	61	3.10	20	2.73
W17422		2.09	<0.5	6.22	<5	820	2.1	<2	0.69	<0.5	12	57	11	3.19	20	2.91
W17425		0.05	<0.5	5.58	15	30	1.0	<2	1.68	<0.5	26	42	38	2.65	20	3.60
W17428		0.98	<0.5	6.58	<5	740	2.2	<2	0.69	<0.5	10	51	27	2.97	20	2.68
W17433		1.32	<0.5	7.98	<5	760	3.3	4	0.55	<0.5	11	58	44	3.59	20	3.13
W17438		1.54	<0.5	10.20	19	730	3.9	3	0.40	<0.5	21	83	35	5.71	30	4.88
W17439		1.96	<0.5	10.35	12	760	3.6	<2	0.43	<0.5	17	74	22	4.98	30	4.57
W17440		1.44	<0.5	9.60	10	700	3.3	<2	0.47	<0.5	17	72	26	4.61	30	4.28
W17441		1.44	0.7	6.98	14	480	2.7	5	0.82	0.6	15	87	30	3.86	20	2.27
W17442		1.98	<0.5	9.10	28	690	2.2	3	0.33	4.7	18	67	7	4.38	20	3.45
W17443		1.47	0.7	10.20	35	750	2.9	2	0.29	3.1	22	72	25	5.00	30	4.43
W17444		3.06	<0.5	9.61	28	670	2.8	4	0.32	2.0	16	69	19	4.44	30	3.95
W17445		1.78	<0.5	7.94	19	510	2.1	<2	0.44	1.3	11	55	30	3.80	20	3.14
W17446		1.59	<0.5	9.98	21	670	3.1	2	0.44	<0.5	17	72	21	4.84	30	4.32
W17447		1.25	<0.5	7.73	13	510	2.5	5	0.79	<0.5	11	58	8	3.28	20	2.74



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CERTIFICATE OF ANALYSIS AD17164467

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
W17283		40	1.40	590	1	1.30	27	770	15	0.03	<5	16	321	20	0.45	10
W17288		20	2.35	1365	<1	1.24	56	990	9	0.10	<5	35	180	<20	0.88	10
W17292		40	1.05	423	1	1.52	26	550	11	0.03	<5	12	262	20	0.32	<10
W17293		20	4.00	1175	<1	1.47	56	890	13	0.07	<5	30	245	<20	0.48	<10
W17294		10	6.25	1375	1	1.20	87	730	11	0.07	<5	39	130	<20	0.53	<10
W17298		50	1.23	317	1	1.06	26	560	16	0.05	<5	11	158	20	0.29	<10
W17364		40	1.53	390	1	0.93	32	580	17	0.03	<5	16	118	20	0.36	<10
W17365		20	1.51	409	1	0.98	33	530	29	0.02	<5	15	80	<20	0.33	10
W17366		30	1.79	466	1	1.07	35	570	25	0.04	<5	17	72	20	0.38	<10
W17369		40	0.89	364	2	1.55	19	560	33	0.02	<5	10	278	20	0.26	<10
W17374		40	1.22	591	1	1.47	21	570	21	0.03	<5	13	281	20	0.28	<10
W17380		40	1.15	333	1	1.12	22	530	24	0.03	<5	10	125	20	0.27	<10
W17385		30	3.04	670	2	1.23	73	620	34	0.03	<5	18	189	20	0.30	<10
W17390		10	4.50	1465	1	0.87	67	830	15	0.11	<5	35	288	<20	0.44	<10
W17391		10	4.68	1560	2	0.89	70	840	8	0.16	<5	35	280	<20	0.47	<10
W17396		40	2.12	428	2	1.52	26	590	48	0.03	<5	14	177	20	0.28	<10
W17402		30	2.32	803	2	1.11	30	630	61	0.08	<5	20	201	<20	0.31	<10
W17407		40	0.92	347	2	1.79	18	520	28	0.03	<5	9	190	20	0.23	<10
W17408		40	1.65	490	3	1.56	22	640	178	0.10	<5	14	148	20	0.29	<10
W17409		30	0.87	346	3	1.76	21	490	128	0.03	<5	9	166	<20	0.22	<10
W17412		40	0.92	332	2	1.62	18	490	19	0.02	<5	9	151	20	0.23	<10
W17413		40	1.07	318	3	1.51	20	490	21	0.04	<5	9	151	20	0.23	<10
W17414		40	1.12	355	2	1.52	25	490	15	0.04	<5	11	156	20	0.25	<10
W17415		50	1.82	461	1	1.34	34	540	11	0.05	<5	16	119	20	0.37	<10
W17416		30	2.27	485	2	1.30	36	620	20	0.20	<5	16	128	20	0.32	10
W17417		40	1.26	345	2	1.59	20	550	42	0.12	<5	9	151	20	0.26	<10
W17422		30	1.45	346	2	1.60	21	560	21	0.06	<5	9	155	20	0.27	<10
W17425		<10	0.78	346	9	1.47	28	590	38	0.02	<5	8	71	<20	0.29	<10
W17428		40	1.24	323	2	1.60	20	570	17	0.07	<5	9	136	20	0.27	<10
W17433		40	1.60	381	1	1.30	26	520	288	0.05	<5	12	93	20	0.30	<10
W17438		20	1.61	401	1	0.97	38	490	34	0.15	<5	17	68	<20	0.36	10
W17439		30	1.48	358	1	0.96	33	510	30	0.09	<5	16	65	20	0.35	<10
W17440		30	1.35	361	1	1.01	33	530	31	0.08	<5	15	78	20	0.36	<10
W17441		40	1.39	420	2	1.49	28	530	193	0.08	<5	12	145	20	0.30	<10
W17442		30	1.98	367	2	0.94	31	470	351	0.14	<5	14	62	20	0.31	<10
W17443		30	1.91	370	2	0.94	35	480	417	0.16	<5	15	59	<20	0.33	<10
W17444		30	1.59	322	1	0.88	28	450	219	0.13	<5	14	64	<20	0.30	<10
W17445		40	1.16	285	1	0.92	24	490	153	0.17	<5	11	91	20	0.28	<10
W17446		30	1.46	374	<1	1.03	36	480	62	0.12	<5	15	87	<20	0.35	<10
W17447		40	1.06	361	1	1.19	24	550	51	0.05	<5	11	112	20	0.30	<10



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CERTIFICATE OF ANALYSIS AD17164467

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 % 0.01
W17283		<10	102	<10	88	0.001	
W17288		<10	283	<10	134	0.002	
W17292		<10	63	<10	145	<0.001	
W17293		<10	181	<10	108	0.003	
W17294		<10	235	<10	139	0.001	90.0
W17298		<10	55	<10	107	<0.001	
W17364		<10	78	<10	74	<0.001	
W17365		<10	84	<10	171	0.002	
W17366		<10	92	<10	84	0.001	
W17369		<10	48	<10	73	<0.001	
W17374		<10	74	<10	76	<0.001	
W17380		<10	53	<10	80	<0.001	
W17385		<10	96	<10	135	0.003	
W17390		<10	201	<10	159	0.002	
W17391		<10	212	<10	192	0.001	
W17396		<10	73	<10	100	<0.001	
W17402		<10	108	<10	191	<0.001	
W17407		<10	43	<10	77	0.001	
W17408		<10	77	<10	91	0.001	
W17409		<10	45	<10	65	<0.001	
W17412		<10	44	<10	64	<0.001	
W17413		<10	44	<10	69	<0.001	
W17414		<10	51	<10	66	<0.001	
W17415		<10	85	<10	92	0.001	
W17416		<10	90	<10	118	0.005	
W17417		<10	53	10	79	0.004	
W17422		<10	51	<10	89	0.003	
W17425		<10	65	<10	59	0.017	
W17428		<10	51	<10	67	0.001	
W17433		<10	68	<10	153	0.001	
W17438		<10	102	<10	170	0.002	
W17439		<10	88	<10	156	0.003	
W17440		<10	82	<10	149	0.003	
W17441		<10	63	<10	337	0.003	
W17442		<10	74	<10	1865	0.003	
W17443		<10	80	<10	1360	0.003	
W17444		<10	74	<10	838	0.003	
W17445		<10	60	<10	451	0.001	
W17446		<10	81	<10	182	0.001	
W17447		<10	61	<10	149	0.002	



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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
W17448		1.25	<0.5	8.91	11	460	3.7	6	2.88	1.0	16	70	57	4.52	20	2.94
W17449		3.03	<0.5	9.87	20	650	3.5	<2	0.67	3.6	18	76	59	5.33	30	4.08
W17450		0.05	0.6	4.70	5	10	1.1	<2	0.13	0.7	1	13	186	0.22	10	4.32
W17454		1.17	<0.5	9.17	36	620	2.7	2	0.52	<0.5	15	77	10	4.76	30	3.79
W17455		1.82	<0.5	9.52	14	620	2.6	3	0.45	<0.5	19	82	35	5.36	30	3.79
W17456		3.28	<0.5	10.00	17	640	2.8	<2	0.44	0.6	18	84	53	5.85	30	4.12
W17457		1.54	<0.5	7.96	10	530	2.5	<2	1.72	0.7	13	64	24	3.96	20	2.95
W17458		1.46	<0.5	5.63	5	660	1.4	3	0.56	<0.5	5	41	8	1.90	10	2.91
W17459		1.24	<0.5	5.63	<5	520	1.3	<2	0.43	<0.5	6	39	21	1.85	10	2.38
W17460		1.40	<0.5	5.94	7	560	2.4	<2	0.64	<0.5	10	45	31	2.82	10	2.88
W17465		1.38	0.9	9.85	18	660	3.2	4	0.40	<0.5	19	71	42	4.67	30	3.76
W17466		1.26	<0.5	8.84	16	580	2.7	3	0.39	<0.5	16	75	28	4.52	30	3.74
W17467		1.17	<0.5	7.71	13	550	2.0	5	0.42	2.2	18	78	29	3.93	20	3.12
W17468		1.13	<0.5	8.19	13	640	2.0	<2	0.38	1.9	12	61	21	3.50	20	3.19
W17469		2.27	<0.5	6.41	9	430	1.9	<2	0.42	2.2	8	50	20	2.70	10	2.37
W17470		2.15	<0.5	9.51	18	720	2.6	<2	0.41	0.9	19	77	32	5.24	30	4.11
W17471		2.11	<0.5	8.54	14	590	2.8	2	1.19	0.5	14	70	12	4.05	20	2.95
W17472		2.57	<0.5	6.74	11	410	4.3	3	4.31	0.9	12	47	24	3.81	20	1.58
W17473		2.33	<0.5	6.23	<5	630	1.7	<2	1.03	<0.5	7	47	20	2.55	10	2.85
W17474		3.27	<0.5	6.11	7	610	3.0	<2	0.92	1.1	9	46	28	2.72	10	2.85
W17476		2.77	0.5	6.24	17	660	2.6	2	1.38	1.0	12	46	57	3.28	20	3.17
W17477		2.73	<0.5	6.53	7	530	4.2	<2	1.20	1.7	11	49	51	3.86	10	2.48
W17478		1.99	<0.5	6.86	7	380	3.4	2	2.67	0.5	10	52	26	3.67	20	1.88
W17479		1.93	<0.5	8.79	17	570	2.5	<2	0.66	<0.5	16	73	10	4.19	20	3.50
W17480		2.42	<0.5	9.57	17	630	2.5	<2	0.54	<0.5	17	81	4	4.73	30	3.63
W17481		2.07	<0.5	8.95	22	630	2.8	<2	0.44	<0.5	19	78	13	4.73	30	3.56
W17482		1.57	<0.5	9.47	11	640	2.9	<2	0.46	0.5	18	79	43	5.50	30	3.92
W17483		1.73	<0.5	10.10	15	690	3.1	3	0.53	<0.5	18	79	21	4.98	30	3.94
W17484		2.65	<0.5	9.43	7	720	3.1	<2	0.53	0.9	21	91	53	5.41	30	4.03
W17485		1.45	<0.5	9.88	10	720	3.2	<2	0.39	<0.5	24	75	60	5.59	30	4.39
W17489		1.59	<0.5	7.77	9	640	3.3	<2	0.77	<0.5	17	76	44	4.24	20	2.89
W17490		1.96	0.5	9.10	5	690	3.5	<2	0.48	<0.5	21	70	39	4.43	30	3.90
W17491		1.28	<0.5	9.74	10	800	4.0	<2	0.33	<0.5	21	68	90	4.95	30	4.25
W17493		2.06	<0.5	8.71	<5	660	3.2	<2	0.48	<0.5	14	60	9	3.80	20	3.41
W17494		1.83	<0.5	9.66	9	710	3.5	<2	0.34	<0.5	22	69	43	5.11	30	3.81
W17495		1.48	<0.5	8.17	25	470	4.0	<2	2.34	1.1	52	472	82	6.92	20	3.12
W17496		4.32	0.6	9.50	26	660	4.5	<2	0.51	1.1	39	227	37	5.24	30	3.98
W17497		2.38	0.9	8.83	29	590	4.3	<2	0.51	0.9	46	269	38	5.07	30	3.59
W17498		1.38	0.6	8.86	15	690	3.6	<2	0.43	4.3	27	75	76	4.30	20	3.85
W17499		1.03	<0.5	10.10	9	760	4.1	<2	0.54	<0.5	20	84	47	5.10	30	4.33



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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
W17448		40	1.36	835	1	1.12	28	620	170	0.28	<5	13	183	20	0.32	<10
W17449		30	1.58	459	1	1.04	37	500	247	0.43	<5	15	81	<20	0.33	<10
W17450		<10	0.04	45	1	1.17	12	460	26	0.06	<5	<1	19	<20	0.02	10
W17454		20	1.49	393	1	1.06	37	500	51	0.06	<5	14	73	<20	0.36	<10
W17455		30	1.70	393	1	1.06	38	500	45	0.14	<5	16	68	20	0.36	<10
W17456		30	1.73	417	1	1.06	39	460	92	0.19	<5	16	69	<20	0.38	<10
W17457		30	1.52	569	2	1.00	27	520	132	0.09	<5	12	121	20	0.32	<10
W17458		30	0.64	236	2	1.29	13	400	85	0.05	<5	6	125	20	0.19	<10
W17459		30	0.59	191	2	1.32	15	400	33	0.04	<5	6	95	20	0.19	<10
W17460		40	1.47	259	3	1.13	17	460	49	0.25	<5	7	120	20	0.20	<10
W17465		30	1.79	377	3	1.08	36	510	37	0.11	<5	15	71	20	0.33	<10
W17466		20	1.49	333	1	0.94	35	500	60	0.15	<5	14	63	<20	0.35	<10
W17467		30	1.36	331	4	0.86	37	540	297	0.17	<5	13	73	20	0.33	<10
W17468		30	1.23	274	1	0.88	28	520	161	0.12	<5	12	65	20	0.29	<10
W17469		50	0.77	221	2	0.84	18	490	153	0.12	<5	9	77	20	0.24	<10
W17470		20	1.61	391	1	0.95	36	440	169	0.14	<5	15	66	<20	0.36	<10
W17471		30	1.57	485	2	1.20	30	580	109	0.06	<5	13	119	20	0.36	<10
W17472		40	3.10	1190	2	0.51	17	610	112	0.14	<5	9	202	20	0.26	<10
W17473		30	0.79	381	3	1.31	16	470	145	0.08	<5	7	172	20	0.21	<10
W17474		30	1.39	364	2	0.97	16	450	142	0.09	<5	7	135	20	0.22	<10
W17476		40	1.57	527	2	0.74	18	560	238	0.20	<5	8	124	20	0.23	<10
W17477		30	2.20	490	2	1.04	23	650	201	0.13	<5	8	149	20	0.26	<10
W17478		40	1.85	669	3	0.88	22	610	82	0.10	<5	9	166	20	0.28	<10
W17479		40	1.38	348	1	1.15	33	590	40	0.03	<5	14	89	20	0.38	<10
W17480		30	1.53	382	2	1.18	39	550	48	0.05	<5	15	94	20	0.41	<10
W17481		20	1.68	369	2	1.13	37	520	42	0.06	<5	14	72	<20	0.39	<10
W17482		20	1.72	394	<1	1.11	38	520	87	0.21	<5	15	70	<20	0.39	<10
W17483		30	1.69	406	1	1.18	37	560	51	0.09	<5	16	80	20	0.41	<10
W17484		30	1.79	415	2	1.17	40	520	163	0.26	<5	17	79	<20	0.39	<10
W17485		20	1.89	403	1	1.04	37	500	137	0.31	<5	16	65	<20	0.38	10
W17489		40	1.69	408	2	1.45	34	530	52	0.12	<5	12	133	20	0.31	10
W17490		30	1.57	321	2	1.03	35	600	33	0.14	<5	15	74	20	0.38	<10
W17491		10	2.00	373	1	1.03	33	520	32	0.12	<5	15	49	<20	0.34	<10
W17493		30	1.49	292	1	1.15	30	590	30	0.04	<5	13	75	20	0.36	<10
W17494		20	2.37	297	2	1.03	38	490	41	0.18	<5	15	57	<20	0.37	<10
W17495		30	5.75	707	1	0.63	140	580	361	0.18	<5	31	59	<20	0.45	<10
W17496		30	3.25	382	1	0.87	68	560	2720	0.22	<5	20	56	<20	0.38	10
W17497		20	3.53	381	1	0.80	75	560	4310	0.23	<5	20	54	<20	0.37	<10
W17498		30	1.47	290	2	0.97	39	540	479	0.24	<5	14	71	20	0.34	<10
W17499		30	1.72	384	2	1.13	38	580	133	0.17	5	17	79	20	0.37	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 10	ppm 1	ppm 10	ppm 2	ppm 0.001	% 0.01
W17448		<10	67	30	523	0.004	
W17449		<10	80	<10	1210	0.004	
W17450		<10	3	<10	310	0.352	
W17454		<10	81	<10	130	0.001	
W17455		<10	83	<10	170	0.001	98.0
W17456		<10	88	<10	321	0.001	
W17457		<10	66	<10	299	0.001	
W17458		<10	35	<10	164	<0.001	
W17459		<10	35	<10	79	<0.001	
W17460		<10	38	<10	124	0.001	
W17465		<10	78	<10	136	0.002	
W17466		<10	81	<10	284	0.005	
W17467		<10	70	<10	943	0.002	
W17468		<10	65	<10	764	0.001	
W17469		<10	47	<10	931	0.002	
W17470		<10	85	<10	508	0.001	
W17471		<10	77	<10	317	<0.001	
W17472		<10	46	<10	416	0.003	
W17473		<10	41	<10	246	0.001	
W17474		<10	41	<10	451	0.001	
W17476		<10	42	<10	438	0.005	
W17477		<10	47	<10	652	0.004	
W17478		<10	52	10	317	0.001	
W17479		<10	79	<10	114	<0.001	
W17480		<10	88	<10	122	<0.001	
W17481		<10	86	<10	193	<0.001	
W17482		<10	86	<10	355	0.001	
W17483		<10	90	<10	141	0.001	
W17484		<10	88	10	694	0.002	
W17485		<10	84	<10	337	0.001	
W17489		<10	68	<10	126	0.001	
W17490		<10	82	<10	93	<0.001	
W17491		<10	84	<10	89	0.002	
W17493		<10	73	<10	74	<0.001	
W17494		<10	83	<10	85	0.001	
W17495		<10	170	<10	557	0.002	
W17496		<10	117	<10	508	0.003	
W17497		<10	127	<10	442	0.002	
W17498		<10	88	<10	2680	0.003	
W17499		<10	94	<10	296	0.002	



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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
W17500		0.05	3.2	7.58	55	1200	1.5	<2	4.15	1.4	29	155	4070	6.13	20	2.33
W17501		1.78	<0.5	8.36	9	720	3.0	<2	0.48	1.4	16	61	51	4.35	20	3.33
W17502		2.79	<0.5	7.59	13	640	3.4	<2	1.08	<0.5	12	55	34	3.73	20	2.70
W17503		1.40	<0.5	8.65	7	710	3.5	<2	0.48	<0.5	15	61	23	4.41	20	3.78
W17508		1.98	<0.5	8.09	5	750	3.2	<2	0.52	<0.5	12	60	29	4.12	20	3.20



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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
W17500		50	2.00	872	65	2.37	2450	1060	2220	0.42	<5	19	317	20	0.70	<10
W17501		40	1.49	327	2	1.16	27	560	50	0.12	<5	12	86	20	0.31	<10
W17502		40	1.51	367	2	1.39	26	580	66	0.09	<5	11	133	20	0.30	<10
W17503		40	1.39	347	2	1.01	27	560	53	0.06	<5	13	96	20	0.32	10
W17508		40	1.51	393	2	1.19	27	550	55	0.05	<5	12	104	20	0.32	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
W17500		<10	145	<10	1145	0.528	
W17501		<10	66	<10	798	0.001	
W17502		<10	58	<10	157	<0.001	
W17503		<10	67	<10	136	<0.001	
W17508		<10	65	<10	75	<0.001	98.0



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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