



Australian Laboratory Services Pty. Ltd.

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No: 825, Corporate Site No: 23001.

CERTIFICATE AD18087117

This report is for 48 Soil samples submitted to our lab in Adelaide, SA, Australia on 18-APR-2018.

The following have access to data associated with this certificate:

GABRIELLA MCDONALD

ROMAN TESLYUK

To: EARTH AI OPERATIONS AUSTRALIA PTY LTD
ATTN: GABRIELLA MCDONALD
GROUND FLOOR
100 GEORGE STREET
PARRAMATTA NSW 2150

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 *****

Page: 1

Total # Pages: 3 (A - D)

Plus Appendix Pages

Finalized Date: 4-MAY-2018

This copy reported on 16-MAY-2018

Account: EARTOP

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-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-TL43	Trace Level Au - 25g AR	ICP-MS
ME-MS41	Ultra Trace Aqua Regia ICP-MS	

Signature:

Cameron Brosnan, Laboratory Manager, Perth



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Page: 2 - A

Total # Pages: 3 (A - D)

Plus Appendix Pages

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CERTIFICATE OF ANALYSIS AD18087117

Sample Description	Method Analyte Units LOR	WEI-21	Au-TL43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
HD006		0.28	0.001	0.02	1.68	2.0	<0.02	<10	60	0.68	0.14	0.13	0.03	39.8	5.6	50
HD009		0.17	0.001	0.01	1.80	1.5	<0.02	<10	40	0.54	0.13	0.09	0.02	55.0	4.2	42
HD29		0.26	0.001	0.01	1.62	0.8	<0.02	<10	80	0.75	0.16	0.18	0.02	61.0	6.6	36
HD048		0.25	<0.001	0.01	1.08	1.0	<0.02	<10	30	0.37	0.08	0.06	0.02	28.4	3.8	27
HD050		0.19	0.002	0.01	1.99	1.1	<0.02	<10	90	0.67	0.08	2.15	0.04	42.6	9.2	43
HD054		0.13	0.001	0.01	2.67	0.9	<0.02	<10	140	0.85	0.08	0.64	0.04	75.6	15.3	85
HD057		0.15	<0.001	0.01	2.63	1.2	<0.02	<10	130	0.74	0.08	0.58	0.03	66.6	13.8	76
HD058		0.28	<0.001	0.01	1.62	0.9	<0.02	<10	90	0.72	0.05	0.32	0.03	46.0	9.2	42
HD064		0.25	<0.001	0.01	1.64	0.7	<0.02	<10	80	0.74	0.08	0.16	0.03	55.2	6.0	32
HD130		0.33	0.002	0.01	1.94	0.9	<0.02	<10	80	0.66	0.09	0.11	0.02	80.4	8.7	44
HD134		0.28	<0.001	0.02	1.53	0.7	<0.02	<10	50	0.99	0.11	0.12	0.01	47.7	4.5	20
HD146		0.27	<0.001	0.02	1.30	0.6	<0.02	<10	40	1.09	0.08	0.08	0.03	66.3	3.7	13
HD154		0.18	<0.001	0.03	1.73	0.9	<0.02	<10	60	1.08	0.13	0.10	0.07	76.4	4.9	18
HD253S		0.09	0.001	0.02	1.96	0.7	<0.02	<10	130	0.96	0.08	0.21	0.03	70.8	6.1	21
HD254S		0.07	0.001	0.02	2.25	1.0	<0.02	<10	120	1.32	0.11	0.21	0.03	94.6	6.1	16
HD255S		0.08	0.001	0.02	2.37	1.1	<0.02	<10	110	1.36	0.10	0.21	0.03	103.5	5.5	17
HD256S		0.10	0.001	0.01	1.86	0.8	<0.02	<10	110	1.37	0.06	0.19	0.02	87.4	5.1	12
HD257S		0.09	<0.001	0.02	1.90	0.9	<0.02	<10	100	1.07	0.11	0.21	0.03	86.3	5.7	16
HD258S		0.05	0.001	0.02	2.31	0.9	<0.02	<10	130	1.10	0.11	0.37	0.05	95.7	7.6	19
HD259S		0.05	0.001	0.03	2.99	1.2	<0.02	<10	150	1.49	0.11	0.45	0.05	106.5	9.8	23
HD260S		0.06	0.001	0.02	2.80	1.0	<0.02	<10	160	1.38	0.08	0.52	0.03	96.0	10.7	18
HD261S		0.09	0.001	0.04	3.72	1.3	<0.02	<10	170	2.00	0.12	0.51	0.05	118.0	10.8	20
HD262S		0.09	0.001	0.03	2.15	0.9	<0.02	<10	100	1.01	0.48	0.22	0.03	69.2	5.8	21
HD264S		0.06	<0.001	0.03	2.84	1.3	<0.02	<10	170	1.46	0.13	0.59	0.05	92.1	10.6	20
HD265S		0.07	0.001	0.03	1.86	0.8	<0.02	<10	110	1.07	0.35	0.28	0.03	71.0	5.0	20
HD266S		0.10	<0.001	0.02	1.92	0.8	<0.02	<10	80	0.97	0.25	0.20	0.02	66.4	5.1	18
HD267S		0.10	<0.001	0.02	1.62	0.8	<0.02	<10	60	0.90	0.27	0.11	0.03	52.7	3.4	14
HD268S		0.09	<0.001	0.01	1.99	0.7	<0.02	<10	90	0.98	0.44	0.27	0.02	68.8	6.4	18
HD269S		0.06	<0.001	0.02	1.93	0.7	<0.02	<10	80	0.86	0.28	0.19	0.03	58.0	5.2	18
HD270S		0.10	<0.001	0.01	2.06	0.6	<0.02	<10	80	0.94	0.27	0.21	0.03	71.7	6.0	17
HD271S		0.08	<0.001	0.02	2.24	0.9	<0.02	<10	90	1.20	0.12	0.19	0.03	113.0	6.6	22
HD272S		0.04	<0.001	0.03	3.30	0.7	<0.02	<10	160	1.89	0.16	0.27	0.03	93.2	8.9	19
HD273S		0.09	<0.001	0.03	2.43	1.1	<0.02	<10	150	1.50	0.12	0.46	0.07	98.3	8.6	14
HD275S		0.04	<0.001	0.02	2.34	1.1	<0.02	<10	100	1.47	0.11	0.15	0.03	82.2	6.8	13
HD277S		0.05	<0.001	0.02	3.45	1.0	<0.02	<10	200	1.35	0.15	1.04	0.08	109.0	15.6	18
HD279S		0.07	<0.001	0.01	2.04	0.8	<0.02	<10	110	1.03	0.12	0.25	0.03	75.6	5.9	13
HD280S		0.07	<0.001	0.02	2.17	0.9	<0.02	<10	120	1.16	0.12	0.34	0.05	76.2	6.6	14
HD282S		0.08	<0.001	0.02	2.49	1.2	<0.02	<10	130	1.31	0.14	0.26	0.04	106.0	7.3	16
HD283S		0.05	<0.001	0.02	2.18	0.7	<0.02	<10	110	1.09	0.12	0.29	0.04	99.8	7.2	25
HD284S		0.06	<0.001	0.02	1.79	0.8	<0.02	<10	100	0.82	0.11	0.22	0.02	71.0	4.8	14



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Page: 2 - B

Total # Pages: 3 (A - D)

Plus Appendix Pages

Finalized Date: 4-MAY-2018

Account: EARTOP

CERTIFICATE OF ANALYSIS AD18087117

Sample Description	Method Analyte Units LOR	ME-MS41 Cs ppm 0.05	ME-MS41 Cu ppm 0.2	ME-MS41 Fe % 0.01	ME-MS41 Ga ppm 0.05	ME-MS41 Ge ppm 0.05	ME-MS41 Hf ppm 0.02	ME-MS41 Hg ppm 0.01	ME-MS41 In ppm 0.005	ME-MS41 K % 0.01	ME-MS41 La ppm 0.2	ME-MS41 Li ppm 0.1	ME-MS41 Mg % 0.01	ME-MS41 Mn ppm 5	ME-MS41 Mo ppm 0.05	ME-MS41 Na % 0.01
HD006		1.11	12.6	3.29	6.22	0.06	0.13	0.02	0.033	0.24	19.6	6.8	0.14	244	0.37	<0.01
HD009		1.16	10.4	2.67	5.79	0.06	0.18	0.02	0.026	0.22	27.8	5.8	0.12	167	0.32	<0.01
HD29		3.46	15.5	2.40	5.53	0.08	0.21	0.01	0.017	0.58	28.8	11.8	0.45	368	0.37	0.01
HD048		0.71	7.9	1.82	3.39	<0.05	0.05	0.01	0.017	0.17	14.4	3.3	0.07	174	0.26	<0.01
HD050		0.81	13.4	3.42	6.31	0.06	0.17	0.01	0.026	0.23	22.1	5.4	0.25	305	0.19	0.03
HD054		1.52	23.2	4.66	9.41	0.15	0.14	0.01	0.038	0.54	38.1	8.7	0.56	481	0.37	0.11
HD057		1.25	21.2	4.49	8.78	0.11	0.14	0.02	0.040	0.40	32.0	10.1	0.43	477	0.30	0.08
HD058		0.88	17.7	3.40	6.36	0.08	0.09	0.01	0.026	0.30	23.7	5.3	0.33	300	0.24	0.04
HD064		2.73	14.0	2.15	5.33	0.07	0.18	0.01	0.015	0.52	28.8	8.9	0.30	307	0.27	0.01
HD130		3.50	19.8	3.01	7.10	0.10	0.20	0.01	0.024	0.73	41.0	9.9	0.46	300	0.23	0.01
HD134		6.92	8.8	1.86	5.65	0.10	0.15	0.01	0.024	0.45	24.3	20.1	0.27	277	0.22	0.02
HD146		5.26	4.7	1.76	5.44	0.09	0.20	0.02	0.026	0.37	32.5	16.7	0.17	331	0.29	0.02
HD154		5.99	13.3	2.47	6.94	0.11	0.19	0.02	0.071	0.53	35.1	22.7	0.24	391	0.42	0.02
HD253S		2.33	10.4	2.41	6.64	0.09	0.25	0.01	0.025	0.62	35.1	10.7	0.33	338	0.40	0.04
HD254S		2.61	7.6	2.93	8.32	0.13	0.21	0.01	0.032	0.58	43.8	13.7	0.26	333	0.41	0.03
HD255S		2.31	7.3	2.95	8.57	0.13	0.29	0.01	0.034	0.57	48.7	12.3	0.25	305	0.42	0.03
HD256S		1.48	5.9	2.13	6.48	0.11	0.18	0.01	0.029	0.47	40.1	11.7	0.20	287	0.32	0.03
HD257S		2.37	7.2	2.81	7.51	0.13	0.19	0.02	0.033	0.54	42.8	11.4	0.28	326	0.36	0.03
HD258S		2.30	9.0	3.32	8.54	0.15	0.33	0.01	0.036	0.65	46.5	12.9	0.34	382	0.41	0.06
HD259S		2.85	12.1	4.07	10.45	0.17	0.25	0.01	0.040	0.80	57.1	17.2	0.45	520	0.54	0.06
HD260S		2.69	9.7	4.39	10.60	0.19	0.26	0.02	0.048	0.91	45.0	18.2	0.51	549	0.41	0.09
HD261S		3.60	13.0	4.68	13.05	0.21	0.24	0.02	0.055	1.02	60.9	20.5	0.54	534	0.46	0.08
HD262S		4.57	10.1	2.53	7.08	0.12	0.26	0.01	0.029	0.61	31.3	15.8	0.26	351	0.29	0.03
HD264S		3.11	11.4	3.89	10.30	0.18	0.13	0.02	0.043	0.82	45.5	15.9	0.49	487	0.42	0.05
HD265S		4.21	8.6	2.41	6.41	0.12	0.18	0.01	0.024	0.66	40.3	14.7	0.30	289	0.33	0.02
HD266S		5.46	8.2	2.44	6.72	0.11	0.16	0.02	0.025	0.66	30.9	15.0	0.26	317	0.40	0.02
HD267S		3.47	6.0	1.91	5.63	0.08	0.22	0.01	0.024	0.48	27.7	12.2	0.22	260	0.36	0.01
HD268S		3.87	10.6	2.47	6.32	0.09	0.23	0.01	0.023	0.76	27.5	11.7	0.30	389	0.35	0.02
HD269S		5.57	9.1	2.60	6.78	0.12	0.24	0.01	0.025	0.73	29.4	15.7	0.31	296	0.34	0.03
HD270S		5.98	10.9	2.49	7.24	0.12	0.28	0.01	0.028	0.75	27.3	17.2	0.28	360	0.49	0.04
HD271S		2.47	7.8	4.55	10.30	0.15	0.39	0.01	0.032	0.57	50.4	12.2	0.26	349	0.55	0.04
HD272S		3.93	8.8	3.69	11.95	0.18	0.32	0.01	0.041	0.94	42.6	25.0	0.40	442	0.39	0.06
HD273S		3.59	9.2	3.53	9.40	0.17	0.31	0.02	0.050	0.76	48.3	15.1	0.40	570	0.44	0.07
HD275S		3.19	7.0	2.84	9.39	0.14	0.13	0.02	0.038	0.64	34.7	20.1	0.32	376	0.45	0.02
HD277S		3.82	13.2	5.08	12.45	0.23	0.37	0.03	0.072	0.97	37.5	23.4	0.71	804	0.41	0.16
HD279S		3.10	6.8	2.99	7.95	0.13	0.29	0.01	0.034	0.58	32.5	12.1	0.29	320	0.38	0.04
HD280S		3.16	7.0	3.25	8.48	0.15	0.27	0.01	0.039	0.62	33.2	13.2	0.32	412	0.39	0.05
HD282S		3.67	7.6	3.83	10.50	0.15	0.31	0.01	0.036	0.66	43.9	16.7	0.32	400	0.44	0.03
HD283S		2.90	8.2	3.71	9.37	0.13	0.33	0.01	0.031	0.54	46.2	14.9	0.30	342	0.42	0.04
HD284S		2.19	5.6	2.57	6.80	0.11	0.22	0.01	0.024	0.51	30.9	10.6	0.22	271	0.33	0.03



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Page: 2 - C

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
HD006		0.42	9.7	280	8.0	26.8	<0.001	0.03	0.09	6.3	<0.2	1.2	10.3	<0.01	0.02
HD009		0.45	12.4	230	7.1	25.5	<0.001	0.03	0.08	5.3	<0.2	1.1	9.3	<0.01	0.01
HD29		1.25	21.7	290	7.6	68.7	<0.001	0.03	<0.05	3.6	<0.2	1.4	25.0	<0.01	0.02
HD048		0.52	6.9	180	4.7	16.2	<0.001	0.03	0.05	3.7	<0.2	0.7	9.5	<0.01	0.01
HD050		0.26	15.2	150	5.2	20.5	<0.001	0.02	0.05	8.2	<0.2	0.9	20.7	<0.01	0.01
HD054		1.91	32.6	610	6.2	46.2	<0.001	0.03	0.07	12.2	<0.2	1.2	21.9	<0.01	0.02
HD057		1.19	25.8	430	6.1	33.4	<0.001	0.03	0.07	12.4	<0.2	1.0	25.3	<0.01	0.01
HD058		0.92	18.3	320	4.3	27.4	<0.001	0.03	<0.05	8.2	<0.2	0.6	15.7	<0.01	0.02
HD064		0.97	15.3	160	10.7	62.4	<0.001	0.03	<0.05	3.7	<0.2	1.4	17.4	<0.01	0.01
HD130		0.70	19.4	180	10.0	85.5	<0.001	0.02	<0.05	4.9	<0.2	2.6	14.0	<0.01	0.01
HD134		1.96	11.1	120	8.7	81.2	<0.001	0.03	<0.05	4.5	<0.2	2.8	10.4	<0.01	0.01
HD146		1.13	5.9	120	13.1	71.2	<0.001	0.02	<0.05	4.1	<0.2	3.5	7.7	<0.01	0.01
HD154		1.24	8.8	110	12.5	99.3	<0.001	0.02	<0.05	5.1	<0.2	3.4	10.9	<0.01	0.01
HD253S		1.03	9.5	280	8.0	70.7	<0.001	0.02	<0.05	5.8	<0.2	1.7	21.4	<0.01	0.01
HD254S		1.72	7.3	310	8.1	73.8	<0.001	0.03	0.05	6.6	<0.2	2.3	18.8	<0.01	0.01
HD255S		1.53	7.1	310	8.6	68.3	<0.001	0.03	<0.05	6.8	<0.2	2.2	18.7	<0.01	0.01
HD256S		1.50	6.3	350	6.8	53.9	<0.001	0.03	<0.05	6.1	0.2	1.8	17.2	<0.01	0.01
HD257S		1.71	6.4	410	7.3	71.9	<0.001	0.03	<0.05	6.9	<0.2	2.3	17.6	<0.01	0.02
HD258S		2.15	8.4	540	7.5	68.8	<0.001	0.03	0.05	8.5	<0.2	2.3	23.6	<0.01	0.01
HD259S		2.78	10.5	630	8.9	97.5	<0.001	0.03	0.06	10.0	<0.2	2.9	33.5	<0.01	0.02
HD260S		2.53	9.2	720	7.8	108.5	<0.001	0.03	<0.05	11.8	<0.2	3.3	25.8	<0.01	0.01
HD261S		3.48	10.0	630	9.6	118.5	<0.001	0.03	0.05	13.2	0.2	3.3	31.6	<0.01	0.02
HD262S		1.42	10.0	150	8.2	67.3	<0.001	0.03	0.06	6.9	<0.2	1.9	16.2	<0.01	0.01
HD264S		3.11	9.8	720	9.4	92.9	<0.001	0.04	0.05	10.7	<0.2	2.3	33.8	<0.01	0.02
HD265S		1.87	9.9	210	12.6	84.4	<0.001	0.03	0.05	5.8	<0.2	1.9	21.5	<0.01	0.01
HD266S		1.52	8.8	280	12.0	92.7	<0.001	0.03	0.06	5.8	<0.2	2.0	15.7	<0.01	0.01
HD267S		1.34	6.3	140	12.7	70.6	<0.001	0.03	0.05	4.4	<0.2	1.9	12.3	<0.01	0.01
HD268S		1.26	9.8	240	11.2	91.9	<0.001	0.03	0.06	5.2	<0.2	1.5	20.9	<0.01	0.01
HD269S		1.78	8.5	160	7.8	90.7	<0.001	0.03	<0.05	6.0	<0.2	2.0	15.1	<0.01	0.02
HD270S		1.88	8.9	180	9.2	95.6	<0.001	0.02	<0.05	6.2	<0.2	2.6	15.2	<0.01	0.02
HD271S		1.33	7.7	280	9.9	75.3	<0.001	0.03	0.05	6.2	<0.2	2.8	17.0	<0.01	<0.01
HD272S		2.56	9.0	410	10.5	125.5	<0.001	0.03	<0.05	8.5	0.2	3.9	24.9	<0.01	0.01
HD273S		2.67	7.2	690	7.8	94.6	<0.001	0.03	<0.05	10.9	0.3	3.4	23.6	<0.01	0.01
HD275S		2.29	6.4	350	8.8	111.0	<0.001	0.03	<0.05	9.2	0.2	3.1	13.8	<0.01	0.01
HD277S		1.50	10.9	1170	7.5	89.9	<0.001	0.03	<0.05	19.1	<0.2	2.7	28.3	<0.01	<0.01
HD279S		1.53	5.9	350	7.2	74.7	<0.001	0.03	<0.05	6.8	0.2	2.4	14.9	<0.01	<0.01
HD280S		2.12	6.3	390	7.6	80.7	<0.001	0.03	<0.05	8.8	0.2	2.8	16.1	<0.01	<0.01
HD282S		1.60	6.8	370	8.3	87.1	<0.001	0.03	0.05	8.1	0.2	2.5	17.5	0.01	<0.01
HD283S		1.93	9.6	320	8.6	67.9	<0.001	0.03	0.05	6.6	<0.2	2.3	19.6	<0.01	0.01
HD284S		1.66	5.9	260	6.3	56.1	<0.001	0.03	<0.05	5.0	<0.2	1.8	18.1	<0.01	<0.01



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No: 825, Corporate Site No: 23001.

Page: 2 - D

Total # Pages: 3 (A - D)

Plus Appendix Pages

Finalized Date: 4-MAY-2018

Account: EARTOP

CERTIFICATE OF ANALYSIS AD18087117

Sample Description	Method Analyte Units LOR	ME-MS41 Ti %	ME-MS41 Ti ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm	PUL-QC Pass75um %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.01
HD006		0.043	0.16	0.60	68	0.06	10.45	29	5.4	
HD009		0.060	0.14	0.84	55	0.07	8.31	26	6.8	
HD29		0.076	0.40	2.18	29	0.10	10.75	39	8.3	
HD048		0.048	0.09	0.52	38	0.06	5.87	17	2.0	
HD050		0.101	0.12	0.60	95	0.12	11.55	21	6.0	
HD054		0.215	0.23	1.10	107	0.22	15.25	43	4.8	
HD057		0.197	0.17	1.04	118	0.12	12.55	38	4.9	
HD058		0.120	0.14	0.63	84	0.18	9.44	34	3.4	97.0
HD064		0.059	0.38	1.45	28	0.06	11.05	33	6.7	
HD130		0.114	0.49	2.13	42	<0.05	10.40	44	7.3	
HD134		0.069	0.44	1.43	25	0.25	11.35	29	5.5	
HD146		0.048	0.41	3.49	20	0.10	14.90	32	7.0	
HD154		0.073	0.56	2.27	28	0.19	18.20	50	6.4	
HD253S		0.116	0.39	1.62	35	0.09	15.25	36	7.8	
HD254S		0.116	0.40	1.76	43	0.08	19.30	33	7.5	
HD255S		0.124	0.38	1.66	45	0.06	20.1	34	10.3	
HD256S		0.087	0.29	1.03	32	0.06	17.90	26	6.1	
HD257S		0.128	0.39	1.89	42	0.09	19.20	38	6.8	
HD258S		0.170	0.38	1.79	57	0.12	22.3	41	9.3	
HD259S		0.206	0.49	2.36	68	0.12	27.2	51	8.8	
HD260S		0.254	0.56	1.42	77	0.13	27.6	57	8.3	
HD261S		0.255	0.60	1.91	76	0.19	29.1	59	8.2	
HD262S		0.117	0.36	1.11	34	0.68	17.15	30	9.4	
HD264S		0.206	0.50	1.73	65	0.17	24.6	55	4.5	
HD265S		0.099	0.46	4.17	31	0.34	21.5	36	6.8	
HD266S		0.093	0.50	3.38	30	0.14	17.50	40	6.6	
HD267S		0.054	0.40	3.09	23	0.07	14.45	27	7.2	
HD268S		0.096	0.51	1.85	30	0.17	14.40	39	8.6	95.0
HD269S		0.127	0.45	2.95	31	1.21	16.20	32	9.9	
HD270S		0.118	0.51	2.60	30	0.95	13.90	34	10.4	
HD271S		0.160	0.40	2.94	78	0.14	19.70	38	14.7	
HD272S		0.189	0.63	1.98	61	0.27	23.3	48	9.4	
HD273S		0.189	0.52	1.58	51	0.37	33.1	55	9.5	
HD275S		0.135	0.58	2.27	48	0.08	25.1	41	4.3	
HD277S		0.305	0.45	1.57	86	0.41	35.7	73	10.6	
HD279S		0.158	0.40	1.68	47	0.14	18.85	37	9.1	
HD280S		0.180	0.42	1.75	50	0.12	21.6	42	9.4	
HD282S		0.174	0.45	1.79	63	0.11	23.0	43	9.4	
HD283S		0.152	0.36	2.31	54	0.10	18.95	35	11.2	
HD284S		0.129	0.31	1.46	44	0.07	16.25	31	7.0	

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No: 825, Corporate Site No: 23001.

Page: 3 - A

Total # Pages: 3 (A - D)

Plus Appendix Pages

Finalized Date: 4-MAY-2018

Account: EARTOP

CERTIFICATE OF ANALYSIS AD18087117

Sample Description	Method Analyte Units LOR	WEI-21	Au-TL43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1
HD286S		0.06	<0.001	0.03	2.80	1.1	<0.02	<10	150	1.43	0.16	0.58	0.06	104.5	8.6
HD289S		0.05	<0.001	0.01	1.98	1.0	<0.02	<10	160	0.98	0.13	1.01	0.04	69.3	9.7
HD290S		0.09	<0.001	0.02	2.01	0.8	<0.02	<10	110	1.02	0.11	0.24	0.04	88.0	5.7
HD291S		0.08	<0.001	0.03	2.82	1.0	<0.02	<10	190	1.49	0.16	0.53	0.04	97.1	10.8
HD295S		0.08	<0.001	0.02	2.91	1.3	<0.02	<10	190	1.25	0.21	0.52	0.05	115.0	11.8
HD296S		0.04	<0.001	0.01	2.44	1.0	<0.02	<10	170	1.02	0.12	0.44	0.03	98.1	8.3
HD297S		0.05	<0.001	0.02	2.81	1.1	<0.02	<10	160	1.14	0.13	0.43	0.04	95.4	9.1
HD-000		0.04	<0.001	0.01	1.69	0.7	<0.02	<10	90	0.81	0.13	0.23	0.02	79.6	4.3



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No: 825, Corporate Site No: 23001.

Page: 3 - B

Total # Pages: 3 (A - D)

Plus Appendix Pages

Finalized Date: 4-MAY-2018

Account: EARTOP

CERTIFICATE OF ANALYSIS AD18087117

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
HD286S		3.94	9.3	4.19	10.90	0.19	0.43	0.01	0.043	0.81	48.0	18.0	0.44	497	0.50
HD289S		3.27	6.7	4.31	9.25	0.17	0.23	0.01	0.042	0.72	27.5	14.0	0.42	836	0.42
HD290S		2.51	5.8	2.93	7.90	0.14	0.27	0.01	0.032	0.57	42.1	15.6	0.26	346	0.42
HD291S		4.06	10.3	4.27	10.75	0.17	0.29	0.01	0.042	0.81	43.6	17.8	0.48	523	0.46
HD295S		3.70	10.6	4.77	11.25	0.18	0.37	0.02	0.049	0.76	49.2	20.8	0.50	596	0.57
HD296S		3.45	6.8	3.80	9.64	0.18	0.32	0.01	0.032	0.86	47.8	17.7	0.38	462	0.42
HD297S		3.10	8.0	4.05	10.40	0.19	0.40	0.01	0.040	0.77	43.6	20.7	0.41	471	0.48
HD-000		2.03	4.8	2.36	6.52	0.12	0.24	0.01	0.020	0.50	43.3	11.0	0.19	240	0.28

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No: 825, Corporate Site No: 23001.

Page: 3 - C

Total # Pages: 3 (A - D)

Plus Appendix Pages

Finalized Date: 4-MAY-2018

Account: EARTOP

CERTIFICATE OF ANALYSIS AD18087117

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
HD286S		1.67	8.5	910	12.2	94.3	<0.001	0.03	0.10	10.4	0.2	2.9	26.6	<0.01	0.01
HD289S		2.56	6.6	630	6.6	76.6	<0.001	0.03	<0.05	9.8	0.3	2.5	37.5	<0.01	0.05
HD290S		2.48	5.8	400	7.0	74.2	<0.001	0.03	<0.05	6.6	<0.2	2.7	15.3	<0.01	0.01
HD291S		3.27	8.8	700	8.6	94.2	<0.001	0.03	0.06	10.5	0.3	2.8	23.7	<0.01	0.01
HD295S		1.01	8.8	720	10.5	89.4	<0.001	0.01	0.07	12.4	<0.2	2.8	20.1	<0.01	0.01
HD296S		1.66	6.9	470	8.6	82.6	<0.001	0.03	<0.05	8.0	0.2	2.2	19.4	<0.01	<0.01
HD297S		1.05	8.4	460	7.5	81.2	<0.001	0.03	0.05	10.2	<0.2	2.4	19.1	<0.01	0.01
HD-000		1.56	5.3	330	6.7	52.2	<0.001	0.03	<0.05	4.5	<0.2	1.7	21.2	<0.01	<0.01



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No: 825, Corporate Site No: 23001.

Page: 3 - D

Total # Pages: 3 (A - D)

Plus Appendix Pages

Finalized Date: 4-MAY-2018

Account: EARTOP

CERTIFICATE OF ANALYSIS AD18087117

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	PUL-QC
		Ti	Ti	U	V	W	Y	Zn	Zr	Pass75um
		%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.01
HD286S		0.229	0.48	1.99	68	0.25	29.7	54	13.5	
HD289S		0.227	0.39	1.80	75	0.25	23.2	47	6.7	
HD290S		0.140	0.38	1.92	43	0.12	22.7	37	9.2	
HD291S		0.225	0.46	2.06	74	0.32	28.0	54	8.9	
HD295S		0.270	0.44	2.36	90	0.57	27.2	60	12.5	
HD296S		0.230	0.40	1.60	69	0.21	22.1	47	9.7	
HD297S		0.251	0.41	1.67	70	0.18	25.2	49	12.7	
HD-000		0.109	0.27	1.42	41	0.07	18.60	28	7.6	

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No: 825, Corporate Site No: 23001.

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 4-MAY-2018
Account: EARTOP

CERTIFICATE OF ANALYSIS AD18087117

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method:

Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

ACCREDITATION COMMENTS

Applies to Method:

NATA Accreditation covers the performance of this service but does not cover the performance of ALS Perth Sample Preparation. Corporate Accreditation No: 825, Corporate Site No: 23001. The Technical Signatory is Wendy Wong, Senior QC Chemist
Au-TL43 ME-MS41

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Perth located at 31 Denninup Way, Malaga, Australia. Processed at ALS Perth Sample Preparation at 79 Distinction Road, Wangara, WA, Australia
Au-TL43 ME-MS41

Applies to Method:

Processed at ALS Adelaide located at Unit 1, 1 Burma Road, Pooraka, Adelaide, SA, Australia.
LEV-01 LOG-22 PUL-31 PUL-QC
WEI-21