



Australian Laboratory Services Pty. Ltd.

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To: EARTH AI OPERATIONS AUSTRALIA PTY LTD

UNIT 8

7-29 BRIDGE RD

STANMORE NSW 2048

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Plus Appendix Pages

Finalized Date: 4-JUN-2025

Account: EARTOP

CERTIFICATE AD25136418

Project: ESA12D

This report is for 14 samples of Drill Core submitted to our lab in Adelaide, SA, Australia on 13-MAY-2025.

The following have access to data associated with this certificate:

EARTH AI OPERATIONS

ROMAN TESLYUK

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
PUL-QC	Pulverizing QC Test
PUL-22	Pulverizing 3kg sample in LM5
WEI-21	Received Sample Weight
STDINS-01	Standard Insertion Charge
BLKINS-01	Insertion of blank material
LEV-01	Waste Disposal Levy
LOG-22	Sample login – Rcd w/o BarCode
LOG-24	Pulp Login – Rcd w/o Barcode
CRU-21	Crush entire sample

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES
ME-MS61r	4A multi-element ICP-MS + REE	

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 AD25136418

Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	PGM-ICP23	PGM-ICP23	PGM-ICP23	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Recvd Wt.	Pass7Sum	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co
		kg	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.02	0.01	0.001	0.005	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1
ESA12D_016		2.17	93.0	0.001	<0.005	<0.001	0.01	2.67	1.7	430	0.15	0.03	0.02	<0.02	8.38	0.3
ESA12D_017		<0.02					70.1	3.92	587	570	1.45	4.60	1.35	19.65	42.8	748
ESA12D_018		<0.02		0.712	0.015	0.229										
ESA012D_500.0-502.0		2.28	93.0	0.002	<0.005	<0.001	0.31	1.03	0.2	10	0.62	0.99	0.39	0.02	9.01	0.5
ESA012D_502.0-504.0		1.85	96.0	0.002	<0.005	<0.001	0.08	2.77	0.5	10	1.14	0.11	0.14	0.03	84.3	0.6
ESA012D_504.0-506.0		2.20		0.001	<0.005	<0.001	0.21	4.03	1.1	10	1.51	0.17	0.19	0.04	55.7	0.6
ESA012D_506.0-508.0		1.36		0.002	<0.005	<0.001	0.09	5.14	0.8	10	1.88	0.12	0.22	0.03	39.2	0.7
ESA012D_508.0-510.0		1.81		0.001	<0.005	<0.001	0.26	4.03	0.5	10	1.28	0.20	0.16	0.03	28.7	0.7
ESA012D_510.0-512.0		1.72		0.001	<0.005	<0.001	0.07	4.16	1.0	20	1.23	0.41	0.18	0.04	27.6	1.0
ESA012D_512.0-514.0		1.70		0.003	<0.005	<0.001	0.04	4.95	<0.2	20	1.68	0.31	0.16	0.04	43.1	0.7
ESA012D_514.0-516.0		1.55		0.001	<0.005	<0.001	0.20	1.35	<0.2	30	0.74	0.47	0.02	0.02	1.14	0.5
ESA012D_516.0-518.0		1.66		0.001	<0.005	<0.001	0.06	1.24	0.2	40	0.62	0.41	0.02	0.02	0.98	0.6
ESA012D_518.0-520.0		2.12		0.003	<0.005	<0.001	0.08	0.66	<0.2	40	0.41	0.27	0.01	<0.02	2.40	0.3
ESA012D_520.0-521.0		0.89		0.002	<0.005	0.001	0.10	0.95	0.3	30	0.53	0.51	0.01	0.03	4.95	0.8



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CERTIFICATE OF ANALYSIS AD25136418

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05
ESA12D_016		3	0.79	1.7	0.47	4.41	0.12	1.5	0.019	3.19	4.5	2.8	0.04	43	0.28
ESA12D_017		43	6.28	7800	4.95	10.20	0.23	1.2	0.603	1.43	20.7	33.0	0.60	919	1000
ESA12D_018															
ESA012D_500.0-502.0		4	1.97	2.6	0.51	2.92	0.06	0.3	<0.005	0.40	3.9	28.4	0.10	89	0.40
ESA012D_502.0-504.0		4	1.03	3.4	0.44	5.77	0.11	1.2	<0.005	0.20	37.1	18.4	0.24	48	0.31
ESA012D_504.0-506.0		3	1.33	3.4	0.53	8.14	0.11	1.6	<0.005	0.31	25.6	18.5	0.24	56	0.27
ESA012D_506.0-508.0		2	1.80	3.5	0.44	10.00	0.09	2.0	0.006	0.43	18.7	18.2	0.28	44	0.19
ESA012D_508.0-510.0		3	1.98	4.5	0.53	9.11	0.07	1.3	0.009	0.58	14.9	26.7	0.25	50	0.33
ESA012D_510.0-512.0		2	2.38	5.2	0.69	9.65	0.08	1.5	0.013	0.66	12.7	17.8	0.33	76	0.24
ESA012D_512.0-514.0		3	4.35	3.5	0.69	9.34	0.09	0.9	0.017	0.71	16.6	23.6	0.39	46	0.12
ESA012D_514.0-516.0		4	3.06	3.2	0.73	4.63	<0.05	0.3	<0.005	0.32	0.6	26.5	0.36	70	0.32
ESA012D_516.0-518.0		3	2.17	2.8	0.87	4.33	<0.05	0.3	<0.005	0.39	<0.5	24.9	0.45	91	0.26
ESA012D_518.0-520.0		3	1.24	1.9	0.55	1.68	<0.05	0.1	<0.005	0.23	1.0	41.7	0.07	64	0.22
ESA012D_520.0-521.0		7	1.53	4.5	1.18	2.46	0.05	0.2	0.005	0.31	2.5	34.5	0.07	128	0.75



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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
		0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05
ESA12D_016		0.8	1.2	30	8.6	124.5	0.007	0.01	0.18	0.4	<1	0.3	16.4	0.06	<0.05
ESA12D_017		7.3	7550	630	8420	88.9	0.544	3.26	764	5.1	4	2.4	96.5	0.55	0.23
ESA12D_018															
ESA012D_500.0-502.0		1.6	2.0	70	66.8	68.9	<0.002	<0.01	0.18	0.7	<1	1.0	4.4	0.13	<0.05
ESA012D_502.0-504.0		5.3	2.6	430	46.3	30.0	<0.002	<0.01	0.08	2.9	<1	1.3	13.4	0.57	<0.05
ESA012D_504.0-506.0		5.2	2.0	540	49.7	42.5	<0.002	0.01	0.08	2.0	<1	1.8	21.7	0.55	<0.05
ESA012D_506.0-508.0		5.8	1.9	620	57.0	61.3	<0.002	<0.01	0.05	2.8	<1	2.5	20.0	0.59	<0.05
ESA012D_508.0-510.0		4.6	2.2	510	39.1	79.0	<0.002	<0.01	0.06	1.8	<1	2.5	12.6	0.46	<0.05
ESA012D_510.0-512.0		5.3	2.6	500	53.7	90.5	<0.002	<0.01	0.09	2.1	<1	2.6	16.0	0.53	<0.05
ESA012D_512.0-514.0		5.9	4.1	470	47.3	92.0	<0.002	<0.01	0.05	2.6	<1	2.7	10.2	0.67	<0.05
ESA012D_514.0-516.0		1.5	3.9	50	25.8	43.3	<0.002	0.01	0.08	1.5	<1	1.5	5.4	0.14	<0.05
ESA012D_516.0-518.0		1.3	4.0	60	21.3	57.2	<0.002	<0.01	0.09	1.4	<1	1.6	4.5	0.14	<0.05
ESA012D_518.0-520.0		0.5	1.1	20	22.7	36.5	<0.002	0.01	0.09	0.4	<1	0.5	4.4	0.05	<0.05
ESA012D_520.0-521.0		1.1	2.6	30	27.6	50.7	<0.002	0.01	0.11	0.6	<1	0.7	4.1	0.09	<0.05



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		Ti	Ti	U	V	W	Y	Zn	Zr	Dy	Er	Eu	Gd	Ho	Lu
		%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.02	0.1	1	0.1	0.1	2	0.5	0.05	0.03	0.03	0.05	0.01	0.01
ESA12D_016		0.018	0.50	0.4	3	0.1	2.1	7	54.5	0.41	0.26	0.21	0.44	0.08	0.05
ESA12D_017		0.207	1.55	2.5	44	5.4	11.2	8740	40.9	2.45	1.10	0.80	3.50	0.46	0.13
ESA12D_018															
ESA012D_500.0-502.0		0.015	0.42	3.9	4	0.7	1.6	40	9.5	0.36	0.16	0.04	0.44	0.06	0.02
ESA012D_502.0-504.0		0.043	0.21	15.2	4	0.6	5.7	227	46.0	1.68	0.57	0.34	3.27	0.25	0.06
ESA012D_504.0-506.0		0.042	0.29	14.6	4	1.2	6.1	220	45.6	1.64	0.59	0.31	2.74	0.25	0.07
ESA012D_506.0-508.0		0.046	0.37	14.6	5	0.9	5.7	321	57.3	1.47	0.57	0.25	2.21	0.23	0.07
ESA012D_508.0-510.0		0.037	0.43	10.7	4	1.7	5.9	294	39.6	1.35	0.51	0.21	1.90	0.21	0.06
ESA012D_510.0-512.0		0.042	0.50	12.4	4	0.8	5.6	367	42.5	1.33	0.54	0.19	1.71	0.21	0.06
ESA012D_512.0-514.0		0.052	0.49	12.8	9	1.4	5.2	404	28.8	1.33	0.51	0.26	1.83	0.18	0.06
ESA012D_514.0-516.0		0.013	0.27	3.7	12	0.8	1.0	85	8.9	0.18	0.11	<0.03	0.19	0.03	0.02
ESA012D_516.0-518.0		0.011	0.33	3.4	10	0.5	0.9	64	8.7	0.18	0.12	<0.03	0.16	0.03	0.01
ESA012D_518.0-520.0		0.005	0.24	1.6	4	0.2	0.6	16	3.1	0.15	0.06	<0.03	0.16	0.02	0.01
ESA012D_520.0-521.0		0.009	0.31	3.2	6	0.5	1.1	25	5.7	0.24	0.11	0.04	0.33	0.04	0.01



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		Pr	Sm	Tb	Tm	Yb
		ppm	ppm	ppm	ppm	ppm
		0.03	0.03	0.01	0.01	0.03
ESA12D_016		0.98	0.59	0.06	0.04	0.30
ESA12D_017		4.77	3.93	0.44	0.14	0.89
ESA12D_018						
ESA012D_500.0-502.0		0.90	0.64	0.06	0.02	0.15
ESA012D_502.0-504.0		9.84	5.98	0.36	0.08	0.47
ESA012D_504.0-506.0		5.84	4.16	0.33	0.08	0.51
ESA012D_506.0-508.0		4.19	3.12	0.28	0.08	0.54
ESA012D_508.0-510.0		3.07	2.42	0.25	0.07	0.41
ESA012D_510.0-512.0		2.83	2.25	0.24	0.07	0.44
ESA012D_512.0-514.0		3.82	2.44	0.25	0.07	0.48
ESA012D_514.0-516.0		0.15	0.15	0.03	0.01	0.10
ESA012D_516.0-518.0		0.11	0.15	0.02	0.02	0.11
ESA012D_518.0-520.0		0.27	0.20	0.02	0.01	0.06
ESA012D_520.0-521.0		0.60	0.43	0.04	0.02	0.09



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	CERTIFICATE COMMENTS
	<p>ANALYTICAL COMMENTS</p> <p>Applies to Method: REEs may not be totally soluble in this method. ME-MS61r</p> <p>LABORATORY ADDRESSES</p> <p>Applies to Method: Processed at ALS Perth located at 29 & 31 Denninup Way, Malaga, Australia. Processed at ALS Perth Sample Preparation at 19 Integrity Way, Wangara, WA, Australia ME-MS61r PGM-ICP23 STDINS-01</p> <p>Applies to Method: Processed at ALS Adelaide located at Unit 1, 1 Burma Road, Pooraka, Adelaide, SA, Australia. BLKINS-01 CRU-21 LEV-01 LOG-22 LOG-24 PUL-22 PUL-QC WEI-21</p>