



Australian Laboratory Services Pty. Ltd.

32 Shand Street

Stafford

Brisbane QLD 4053

Phone: +61 7 3243 7222 Fax: +61 7 3243 7218

www.alsglobal.com/geochemistry

To: EARTH AI OPERATIONS AUSTRALIA PTY LTD

UNIT 8

7-29 BRIDGE RD

STANMORE NSW 2048

Page: 1

Total # Pages: 2 (A – E)

Plus Appendix Pages

Finalized Date: 8-MAY-2025

Account: EARTOP

## CERTIFICATE AD25105076

Project: ESA03D

This report is for 38 samples of Drill Core submitted to our lab in Adelaide, SA, Australia on 14-APR-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
BLKINS-01	Insertion of blank material
STDINS-01	Standard Insertion Charge
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



Australian Laboratory Services Pty. Ltd.  
 32 Shand Street  
 Stafford  
 Brisbane QLD 4053  
 Phone: +61 7 3243 7222 Fax: +61 7 3243 7218  
 www.alsglobal.com/geochemistry

To: EARTH AI OPERATIONS AUSTRALIA PTY LTD  
 UNIT 8  
 7-29 BRIDGE RD  
 STANMORE NSW 2048

Page: 2 - A  
 Total # Pages: 2 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 8-MAY-2025  
 Account: EARTOP

Project: ESA03D

**CERTIFICATE OF ANALYSIS AD25105076**

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	ME-MS61r Ag ppm 0.01	ME-MS61r Al % 0.01	ME-MS61r As ppm 0.2	ME-MS61r Ba ppm 10	ME-MS61r Be ppm 0.05	ME-MS61r Bi ppm 0.01	ME-MS61r Ca % 0.01	ME-MS61r Cd ppm 0.02	ME-MS61r Ce ppm 0.01	ME-MS61r Co ppm 0.1
ESA03D_010		2.15	99.0	0.001	<0.005	0.001	0.01	3.04	0.6	450	0.19	0.03	0.01	<0.02	8.38	0.3
ESA03D_011		<0.02					68.5	4.15	555	480	1.43	4.09	1.37	20.4	42.1	709
ESA03D_012		<0.02		0.710	0.016	0.227										
ESA03D_300.0-302.0		2.39	99.0	0.001	<0.005	<0.001	0.02	1.77	0.5	10	0.71	0.02	0.09	<0.02	3.30	0.6
ESA03D_302.0-304.0		2.38	95.0	<0.001	<0.005	<0.001	0.01	1.14	0.6	<10	0.40	0.03	0.05	<0.02	2.16	0.5
ESA03D_304.0-305.0		1.12		0.001	<0.005	0.001	0.01	1.16	0.3	10	0.51	0.74	0.06	0.42	10.60	1.4
ESA03D_305.0-306.0		1.21		0.001	<0.005	0.001	0.03	3.28	0.3	10	1.09	0.36	0.17	0.15	6.98	1.5
ESA03D_306.0-308.0		2.30		0.001	<0.005	<0.001	0.05	2.31	0.2	<10	0.59	0.03	0.15	0.03	4.47	0.8
ESA03D_308.0-310.0		2.24		0.001	<0.005	<0.001	0.13	1.87	0.3	<10	0.47	0.55	0.12	0.03	5.42	0.6
ESA03D_310.0-312.0		2.75		0.001	<0.005	<0.001	0.04	2.40	<0.2	<10	0.68	1.11	0.19	0.04	3.98	0.7
ESA03D_312.0-314.0		2.40		<0.001	<0.005	<0.001	0.04	2.20	0.3	<10	0.64	0.03	0.12	0.04	1.01	0.8
ESA03D_314.0-316.0		2.01		0.003	<0.005	<0.001	0.15	2.72	0.8	10	1.43	0.30	0.12	0.37	1.59	2.0
ESA03D_316.0-318.0		1.90		0.001	<0.005	<0.001	0.21	2.75	0.4	20	0.98	0.32	0.11	0.05	2.68	0.7
ESA03D_318.0-320.0		2.29		0.001	<0.005	<0.001	0.08	2.02	0.2	30	0.77	0.12	0.02	0.05	0.24	0.9
ESA03D_320.0-321.0		1.13		0.001	<0.005	<0.001	0.04	2.43	<0.2	30	1.01	0.14	0.02	0.05	0.27	1.2
ESA03D_321.0-322.0		1.13		0.002	<0.005	<0.001	0.21	1.82	0.4	50	0.99	0.33	0.01	0.05	0.86	0.7
ESA03D_322.0-324.0		1.93		0.003	<0.005	0.001	0.72	1.19	0.4	40	0.84	1.56	0.01	0.06	0.48	0.6
ESA03D_324.0-326.0		2.22		0.001	<0.005	<0.001	0.67	0.38	<0.2	10	0.34	1.24	<0.01	0.02	0.29	0.3
ESA03D_326.0-327.0		0.96		0.001	<0.005	<0.001	0.25	0.59	0.8	20	0.50	0.55	0.01	0.02	1.14	0.6
ESA03D_327.0-328.0		1.19		<0.001	<0.005	0.001	0.11	0.52	0.5	10	0.42	0.29	<0.01	0.02	0.85	0.4
ESA03D_328.0-329.0		1.40		0.001	<0.005	0.001	0.06	0.82	0.5	10	0.52	0.44	0.01	0.02	0.50	0.5
ESA03D_329.0-330.0		1.19		0.002	<0.005	<0.001	0.03	1.28	<0.2	10	0.73	0.25	0.01	0.03	0.68	0.7
ESA03D_330.0-331.0		1.14		0.002	<0.005	0.001	0.05	1.53	0.4	10	0.85	0.41	0.01	0.05	0.95	0.7
ESA03D_331.0-332.0		1.24		0.001	<0.005	0.001	0.02	0.32	<0.2	30	0.22	0.06	<0.01	<0.02	0.08	0.5
ESA03D_332.0-333.0		1.06		<0.001	<0.005	<0.001	0.04	0.57	0.2	80	0.34	0.13	0.01	0.03	0.30	0.7
ESA03D_333.0-334.0		1.13		0.002	<0.005	<0.001	0.03	0.80	0.4	10	0.46	0.19	0.01	0.05	0.81	0.7
ESA03D_334.0-336.0		2.37		<0.001	<0.005	<0.001	0.06	0.50	<0.2	10	0.39	0.87	0.01	0.05	0.98	0.5
ESA03D_336.0-338.0		2.08		0.002	<0.005	0.001	0.25	0.82	<0.2	10	0.59	8.54	0.02	0.05	3.83	0.4
ESA03D_338.0-340.0		1.99		0.001	<0.005	<0.001	0.07	0.52	<0.2	10	0.48	0.55	0.01	<0.02	4.43	0.3
ESA03D_340.0-341.0		1.14		0.002	<0.005	0.001	0.52	1.19	<0.2	20	0.70	3.06	0.05	0.03	8.78	0.7
ESA03D_341.0-342.0		1.07		0.001	<0.005	0.001	0.14	0.99	0.3	10	0.64	2.38	0.03	<0.02	5.72	0.5
ESA03D_342.0-343.0		1.14		0.001	<0.005	<0.001	0.16	0.77	0.2	10	0.54	2.57	0.02	<0.02	2.86	0.5
ESA03D_343.0-344.0		1.29		0.002	<0.005	<0.001	1.42	1.11	0.4	10	0.65	16.15	0.05	0.05	5.21	0.9
ESA03D_344.0-345.0		1.05		0.002	<0.005	<0.001	1.26	1.74	0.5	10	0.90	3.54	0.06	0.04	4.63	1.1
ESA03D_345.0-346.0		0.99		0.001	<0.005	0.001	0.43	0.73	0.7	20	0.49	1.06	0.01	0.02	1.76	0.4
ESA03D_346.0-347.0		1.06		0.002	<0.005	<0.001	0.36	0.50	0.5	20	0.46	0.93	0.01	<0.02	1.56	0.3
ESA03D_347.0-348.0		1.10		0.003	<0.005	0.001	0.38	0.73	0.4	30	0.65	0.78	0.01	0.02	1.51	0.5
ESA03D_348.0-349.1		0.84		0.002	<0.005	<0.001	0.51	0.69	0.6	30	0.64	0.94	0.01	0.02	3.02	0.5



Australian Laboratory Services Pty. Ltd.  
 32 Shand Street  
 Stafford  
 Brisbane QLD 4053  
 Phone: +61 7 3243 7222 Fax: +61 7 3243 7218  
 www.alsglobal.com/geochemistry

To: EARTH AI OPERATIONS AUSTRALIA PTY LTD  
 UNIT 8  
 7-29 BRIDGE RD  
 STANMORE NSW 2048

Page: 2 - B  
 Total # Pages: 2 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 8-MAY-2025  
 Account: EARTOP

Project: ESA03D

**CERTIFICATE OF ANALYSIS AD25105076**

Sample Description	Method Analyte Units LOD	ME-MS61r Cr ppm 1	ME-MS61r Cs ppm 0.05	ME-MS61r Cu ppm 0.2	ME-MS61r Fe % 0.01	ME-MS61r Ga ppm 0.05	ME-MS61r Ge ppm 0.05	ME-MS61r Hf ppm 0.1	ME-MS61r In ppm 0.005	ME-MS61r K % 0.01	ME-MS61r La ppm 0.5	ME-MS61r Li ppm 0.2	ME-MS61r Mg % 0.01	ME-MS61r Mn ppm 5	ME-MS61r Mo ppm 0.05	ME-MS61r Na % 0.01
ESA03D_010		4	0.85	2.2	0.49	5.13	<0.05	1.7	0.020	3.42	4.9	2.5	0.03	43	0.36	0.07
ESA03D_011		42	6.82	7700	4.79	10.65	0.21	1.4	0.609	1.48	21.6	33.3	0.58	918	956	1.01
ESA03D_012																
ESA03D_300.0-302.0		4	0.51	2.0	0.59	3.77	<0.05	0.4	<0.005	0.06	1.6	3.7	0.06	69	0.39	1.31
ESA03D_302.0-304.0		4	0.66	1.2	0.57	2.93	<0.05	0.2	<0.005	0.08	1.0	3.5	0.17	70	0.26	0.68
ESA03D_304.0-305.0		4	1.21	1.4	1.13	5.56	<0.05	0.4	<0.005	0.12	4.8	19.5	0.86	127	0.37	0.16
ESA03D_305.0-306.0		3	4.29	1.3	0.83	7.40	<0.05	0.7	<0.005	0.19	3.7	15.4	0.44	90	0.24	1.57
ESA03D_306.0-308.0		3	0.62	1.5	0.46	4.81	<0.05	0.6	<0.005	0.03	2.7	4.3	0.23	62	0.25	1.21
ESA03D_308.0-310.0		3	0.86	1.2	0.53	4.07	<0.05	0.4	<0.005	0.05	2.3	5.1	0.19	74	0.25	0.96
ESA03D_310.0-312.0		3	1.76	2.3	0.69	5.06	<0.05	0.6	<0.005	0.08	2.9	8.1	0.42	68	0.22	0.56
ESA03D_312.0-314.0		3	1.14	3.6	0.55	4.95	<0.05	0.4	<0.005	0.07	<0.5	4.7	0.21	56	0.21	1.06
ESA03D_314.0-316.0		3	3.37	15.0	1.23	10.70	<0.05	0.7	<0.005	0.30	0.8	76.7	1.38	123	0.27	0.15
ESA03D_316.0-318.0		4	2.05	6.9	0.60	5.77	<0.05	0.7	<0.005	0.32	1.2	25.7	0.15	62	0.36	0.60
ESA03D_318.0-320.0		4	2.38	3.3	0.95	7.17	<0.05	0.4	<0.005	0.56	<0.5	24.8	1.19	103	0.27	0.01
ESA03D_320.0-321.0		5	3.18	3.8	1.26	9.18	<0.05	0.5	<0.005	0.72	<0.5	30.8	1.41	155	0.30	0.02
ESA03D_321.0-322.0		4	3.34	6.0	0.86	6.52	<0.05	0.4	<0.005	0.63	<0.5	23.5	0.57	87	0.30	0.02
ESA03D_322.0-324.0		5	2.23	6.8	0.72	4.83	<0.05	0.2	<0.005	0.40	<0.5	23.5	0.31	72	0.27	0.01
ESA03D_324.0-326.0		4	0.80	2.3	0.55	1.24	<0.05	0.1	<0.005	0.14	<0.5	28.7	0.06	66	0.24	0.01
ESA03D_326.0-327.0		7	1.42	4.7	1.23	2.32	<0.05	0.1	<0.005	0.27	0.5	30.2	0.07	128	0.50	0.01
ESA03D_327.0-328.0		5	1.18	3.0	0.86	1.78	<0.05	0.1	<0.005	0.24	<0.5	27.1	0.06	99	0.43	0.01
ESA03D_328.0-329.0		4	1.54	2.8	0.79	3.13	<0.05	0.2	<0.005	0.31	<0.5	25.5	0.26	91	0.32	0.01
ESA03D_329.0-330.0		5	2.24	3.0	1.02	4.71	<0.05	0.3	<0.005	0.47	<0.5	25.8	0.39	116	0.41	0.01
ESA03D_330.0-331.0		4	2.90	3.4	0.93	5.70	<0.05	0.3	<0.005	0.55	<0.5	27.5	0.56	105	0.46	0.01
ESA03D_331.0-332.0		5	0.42	1.7	0.81	1.32	<0.05	0.1	<0.005	0.09	<0.5	19.4	0.15	110	0.34	<0.01
ESA03D_332.0-333.0		5	0.52	3.3	0.88	3.13	<0.05	0.2	<0.005	0.08	<0.5	18.1	0.47	96	0.27	<0.01
ESA03D_333.0-334.0		6	1.30	3.2	1.00	3.51	<0.05	0.2	<0.005	0.26	<0.5	17.9	0.39	124	0.40	<0.01
ESA03D_334.0-336.0		5	0.90	2.8	0.60	2.05	<0.05	0.1	<0.005	0.16	<0.5	24.1	0.20	142	0.36	0.01
ESA03D_336.0-338.0		4	1.40	3.2	0.67	2.81	<0.05	0.3	<0.005	0.32	1.5	23.3	0.18	81	0.35	0.01
ESA03D_338.0-340.0		3	1.05	1.6	0.57	1.66	<0.05	0.1	<0.005	0.21	2.0	21.5	0.08	66	0.26	0.01
ESA03D_340.0-341.0		4	1.54	2.6	0.75	3.30	<0.05	0.3	<0.005	0.34	3.8	20.2	0.18	97	0.29	0.04
ESA03D_341.0-342.0		5	1.38	2.0	0.86	2.71	<0.05	0.2	<0.005	0.33	2.9	27.5	0.11	102	0.36	0.03
ESA03D_342.0-343.0		4	1.48	2.1	0.75	2.22	<0.05	0.2	<0.005	0.30	1.4	25.5	0.10	90	0.34	0.02
ESA03D_343.0-344.0		4	1.37	4.6	0.71	3.14	<0.05	0.4	<0.005	0.25	2.3	22.9	0.17	80	0.29	0.05
ESA03D_344.0-345.0		4	2.68	4.5	0.74	4.72	<0.05	0.6	<0.005	0.54	2.0	23.0	0.19	100	0.39	0.04
ESA03D_345.0-346.0		5	1.40	3.3	0.88	2.05	<0.05	0.2	<0.005	0.29	0.9	37.4	0.06	96	0.38	0.01
ESA03D_346.0-347.0		4	1.17	3.1	0.74	1.43	<0.05	0.1	<0.005	0.19	0.8	37.3	0.04	85	0.34	0.01
ESA03D_347.0-348.0		4	1.87	4.1	0.81	2.21	<0.05	0.1	<0.005	0.29	0.7	39.8	0.08	87	0.39	0.01
ESA03D_348.0-349.1		7	1.68	5.1	1.08	1.94	<0.05	0.1	<0.005	0.27	1.4	40.6	0.09	126	0.88	0.01



Australian Laboratory Services Pty. Ltd.

32 Shand Street

Stafford

Brisbane QLD 4053

Phone: +61 7 3243 7222 Fax: +61 7 3243 7218

www.alsglobal.com/geochemistry

To: EARTH AI OPERATIONS AUSTRALIA PTY LTD

UNIT 8

7-29 BRIDGE RD

STANMORE NSW 2048

Project: ESA03D

Page: 2 - C

Total # Pages: 2 (A - E)

Plus Appendix Pages

Finalized Date: 8-MAY-2025

Account: EARTOP

## CERTIFICATE OF ANALYSIS AD25105076

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
		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
ESA03D_010		0.9	1.5	30	9.9	131.0	<0.002	<0.01	0.18	0.5	<1	0.3	15.6	0.08	<0.05
ESA03D_011		7.1	7060	640	7910	91.6	0.538	3.20	742	5.2	3	2.8	94.6	0.56	0.22
ESA03D_012															
ESA03D_300.0-302.0		1.9	1.8	140	2.7	6.8	<0.002	0.02	0.19	0.4	<1	1.0	15.1	0.24	<0.05
ESA03D_302.0-304.0		1.1	1.7	110	1.5	11.6	0.002	0.02	0.08	0.5	<1	0.5	7.3	0.14	<0.05
ESA03D_304.0-305.0		1.8	7.0	210	3.1	20.5	0.002	0.03	0.10	2.0	<1	0.7	3.5	0.26	<0.05
ESA03D_305.0-306.0		3.1	3.0	320	18.9	35.3	<0.002	0.02	0.09	0.9	<1	1.2	22.7	0.41	<0.05
ESA03D_306.0-308.0		1.7	1.3	240	11.4	3.0	<0.002	<0.01	0.07	0.2	<1	0.6	19.0	0.22	<0.05
ESA03D_308.0-310.0		1.5	1.7	200	25.9	6.1	<0.002	<0.01	0.06	0.2	<1	0.6	14.3	0.18	<0.05
ESA03D_310.0-312.0		1.8	2.0	270	29.4	11.0	<0.002	<0.01	0.07	0.3	<1	0.6	21.3	0.22	<0.05
ESA03D_312.0-314.0		1.5	2.0	200	19.8	9.2	<0.002	<0.01	0.07	0.3	<1	0.7	15.0	0.17	<0.05
ESA03D_314.0-316.0		3.4	14.8	300	54.7	51.7	<0.002	0.01	0.18	2.9	<1	1.2	10.3	0.40	<0.05
ESA03D_316.0-318.0		2.6	2.6	270	47.4	52.8	<0.002	<0.01	0.11	0.5	<1	0.6	11.1	0.43	<0.05
ESA03D_318.0-320.0		1.7	8.0	60	40.5	72.4	<0.002	<0.01	0.08	1.5	<1	2.5	2.4	0.20	<0.05
ESA03D_320.0-321.0		2.1	10.2	100	123.0	105.0	<0.002	<0.01	0.10	1.8	<1	2.9	3.4	0.24	<0.05
ESA03D_321.0-322.0		1.8	6.2	130	386	97.9	<0.002	<0.01	0.11	1.7	<1	2.0	10.9	0.24	<0.05
ESA03D_322.0-324.0		0.9	4.5	140	405	65.2	<0.002	<0.01	0.11	1.3	<1	1.4	11.5	0.11	<0.05
ESA03D_324.0-326.0		0.2	1.4	20	84.7	27.1	<0.002	<0.01	0.12	0.2	<1	0.3	2.8	<0.05	<0.05
ESA03D_326.0-327.0		0.6	2.3	50	140.0	49.5	0.002	<0.01	0.18	0.4	<1	0.5	5.0	0.06	<0.05
ESA03D_327.0-328.0		0.4	1.5	30	80.7	45.6	<0.002	<0.01	0.14	0.2	<1	0.3	3.0	<0.05	<0.05
ESA03D_328.0-329.0		0.9	3.7	40	102.0	57.7	<0.002	<0.01	0.13	0.5	<1	0.5	1.7	0.08	<0.05
ESA03D_329.0-330.0		1.4	4.6	20	32.5	83.8	<0.002	<0.01	0.12	0.8	<1	0.7	1.6	0.15	<0.05
ESA03D_330.0-331.0		1.5	6.0	40	55.2	101.5	<0.002	<0.01	0.12	1.0	<1	0.6	2.6	0.16	<0.05
ESA03D_331.0-332.0		0.4	2.4	10	8.1	14.9	0.002	<0.01	0.10	0.3	<1	0.3	1.7	<0.05	<0.05
ESA03D_332.0-333.0		1.0	6.4	20	18.8	12.7	<0.002	<0.01	0.09	1.1	<1	0.4	2.1	0.08	<0.05
ESA03D_333.0-334.0		0.9	5.0	40	16.7	45.8	<0.002	0.01	0.12	0.9	<1	0.6	1.3	0.08	<0.05
ESA03D_334.0-336.0		0.6	3.0	40	17.0	28.1	<0.002	0.01	0.08	0.6	<1	0.4	1.6	0.05	<0.05
ESA03D_336.0-338.0		0.9	2.2	60	35.0	55.9	<0.002	0.01	0.08	0.6	<1	0.6	1.8	0.10	<0.05
ESA03D_338.0-340.0		0.5	1.2	50	11.2	36.5	<0.002	<0.01	0.07	0.2	<1	0.4	1.7	0.05	<0.05
ESA03D_340.0-341.0		1.1	2.3	110	28.7	58.4	<0.002	0.01	0.10	0.5	<1	0.8	4.2	0.13	<0.05
ESA03D_341.0-342.0		1.0	1.7	90	25.9	55.6	<0.002	<0.01	0.12	0.4	<1	0.7	2.1	0.12	<0.05
ESA03D_342.0-343.0		0.7	1.6	60	24.5	52.5	<0.002	<0.01	0.11	0.3	<1	0.6	1.8	0.08	<0.05
ESA03D_343.0-344.0		1.3	2.1	150	185.0	41.8	<0.002	0.02	0.09	0.6	1	0.7	3.8	0.13	<0.05
ESA03D_344.0-345.0		2.0	2.8	160	114.5	92.6	<0.002	0.01	0.11	0.7	<1	1.3	4.2	0.18	<0.05
ESA03D_345.0-346.0		0.7	1.6	60	160.0	47.5	<0.002	<0.01	0.14	0.4	<1	0.4	7.7	0.05	<0.05
ESA03D_346.0-347.0		0.3	1.3	40	121.5	30.9	<0.002	<0.01	0.12	0.2	<1	0.3	7.9	<0.05	<0.05
ESA03D_347.0-348.0		0.4	1.5	40	124.0	47.7	<0.002	<0.01	0.13	0.3	<1	0.4	11.4	0.05	<0.05
ESA03D_348.0-349.1		0.3	2.2	30	86.3	42.9	<0.002	0.01	0.17	0.4	<1	0.4	10.2	<0.05	<0.05



Australian Laboratory Services Pty. Ltd.  
 32 Shand Street  
 Stafford  
 Brisbane QLD 4053  
 Phone: +61 7 3243 7222 Fax: +61 7 3243 7218  
 www.alsglobal.com/geochemistry

To: EARTH AI OPERATIONS AUSTRALIA PTY LTD  
 UNIT 8  
 7-29 BRIDGE RD  
 STANMORE NSW 2048

Page: 2 - D  
 Total # Pages: 2 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 8-MAY-2025  
 Account: EARTOP

Project: ESA03D

**CERTIFICATE OF ANALYSIS AD25105076**

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
		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
ESA03D_010		0.024	0.58	0.5	4	0.1	2.6	2	58.6	0.44	0.32	0.25	0.49	0.08	0.06
ESA03D_011		0.214	1.56	2.7	44	6.6	10.9	8130	42.3	2.48	1.09	0.79	3.39	0.40	0.13
ESA03D_012															
ESA03D_300.0-302.0		0.018	0.06	13.8	2	0.2	2.3	12	10.6	0.49	0.23	0.04	0.44	0.08	0.03
ESA03D_302.0-304.0		0.011	0.10	7.5	2	0.1	1.6	11	6.1	0.36	0.17	<0.03	0.31	0.06	0.02
ESA03D_304.0-305.0		0.018	0.14	24.2	10	0.2	3.8	54	12.5	0.96	0.43	0.08	0.92	0.15	0.06
ESA03D_305.0-306.0		0.026	0.23	11.9	5	0.3	3.8	82	20.5	0.82	0.40	0.06	0.79	0.15	0.05
ESA03D_306.0-308.0		0.014	0.05	6.9	1	0.2	4.9	135	14.9	1.02	0.44	0.07	0.82	0.16	0.05
ESA03D_308.0-310.0		0.012	0.04	7.7	1	0.3	2.4	159	12.0	0.69	0.27	0.05	0.58	0.10	0.03
ESA03D_310.0-312.0		0.015	0.06	7.4	2	0.2	1.9	314	14.8	0.49	0.22	0.05	0.54	0.07	0.03
ESA03D_312.0-314.0		0.011	0.06	7.1	1	0.1	2.0	434	10.2	0.47	0.21	0.03	0.33	0.07	0.02
ESA03D_314.0-316.0		0.023	0.30	12.0	20	0.6	4.4	652	20.0	0.96	0.48	0.05	0.68	0.17	0.06
ESA03D_316.0-318.0		0.024	0.34	7.8	4	0.7	2.5	421	21.3	0.54	0.26	0.03	0.42	0.09	0.04
ESA03D_318.0-320.0		0.013	0.40	4.4	12	0.5	2.0	125	10.2	0.41	0.22	<0.03	0.25	0.08	0.03
ESA03D_320.0-321.0		0.015	0.52	6.1	16	0.6	1.9	172	13.0	0.34	0.21	<0.03	0.26	0.06	0.03
ESA03D_321.0-322.0		0.015	0.52	5.7	13	0.6	1.4	142	11.2	0.31	0.18	<0.03	0.25	0.05	0.02
ESA03D_322.0-324.0		0.007	0.44	5.2	11	0.8	0.7	129	5.4	0.16	0.09	<0.03	0.13	0.03	0.01
ESA03D_324.0-326.0		<0.005	0.20	1.3	3	0.2	0.2	24	1.4	0.06	<0.03	<0.03	<0.05	0.01	<0.01
ESA03D_326.0-327.0		0.006	0.34	2.3	4	0.5	0.6	23	3.5	0.15	0.07	<0.03	0.15	0.02	0.01
ESA03D_327.0-328.0		0.005	0.31	1.6	3	0.3	0.5	15	2.4	0.11	0.05	<0.03	0.09	0.02	0.01
ESA03D_328.0-329.0		0.007	0.42	1.9	5	0.3	0.9	74	5.2	0.17	0.10	<0.03	0.14	0.03	0.01
ESA03D_329.0-330.0		0.011	0.61	2.7	7	0.4	1.5	98	8.8	0.31	0.15	<0.03	0.23	0.05	0.02
ESA03D_330.0-331.0		0.011	0.66	5.4	9	0.9	1.7	115	9.2	0.36	0.19	<0.03	0.24	0.06	0.02
ESA03D_331.0-332.0		<0.005	0.10	0.9	4	0.2	0.4	35	2.4	0.07	0.03	<0.03	0.05	0.01	0.01
ESA03D_332.0-333.0		0.011	0.10	3.2	11	0.5	0.9	138	5.8	0.20	0.11	<0.03	0.13	0.03	0.02
ESA03D_333.0-334.0		0.011	0.33	3.8	10	0.5	1.7	78	6.9	0.34	0.17	<0.03	0.26	0.06	0.02
ESA03D_334.0-336.0		0.007	0.20	3.1	6	0.4	0.9	52	4.1	0.19	0.09	<0.03	0.14	0.03	0.01
ESA03D_336.0-338.0		0.011	0.41	3.3	5	0.4	1.8	41	7.7	0.42	0.19	0.04	0.40	0.06	0.02
ESA03D_338.0-340.0		0.006	0.28	2.1	3	0.2	3.3	20	4.2	0.77	0.31	0.07	0.82	0.12	0.02
ESA03D_340.0-341.0		0.012	0.44	4.5	3	0.2	2.5	285	8.6	0.57	0.22	0.06	0.66	0.09	0.03
ESA03D_341.0-342.0		0.011	0.41	5.0	3	0.3	2.3	45	7.5	0.56	0.24	0.05	0.59	0.09	0.02
ESA03D_342.0-343.0		0.007	0.39	2.9	4	0.3	1.1	29	4.8	0.22	0.11	0.03	0.26	0.04	0.01
ESA03D_343.0-344.0		0.016	0.28	6.3	5	0.3	2.2	140	13.6	0.50	0.23	0.05	0.56	0.08	0.03
ESA03D_344.0-345.0		0.022	0.65	7.0	5	0.5	3.7	332	17.9	0.72	0.37	0.05	0.62	0.12	0.04
ESA03D_345.0-346.0		0.008	0.33	2.7	3	0.3	0.9	18	6.1	0.22	0.09	<0.03	0.22	0.03	0.01
ESA03D_346.0-347.0		0.005	0.24	1.9	2	0.2	0.5	9	3.3	0.14	0.05	<0.03	0.13	0.02	0.01
ESA03D_347.0-348.0		<0.005	0.34	2.2	3	0.4	0.5	20	3.0	0.12	0.05	<0.03	0.12	0.02	0.01
ESA03D_348.0-349.1		<0.005	0.28	2.0	4	0.5	0.4	25	2.1	0.09	0.04	<0.03	0.18	0.02	<0.01



Australian Laboratory Services Pty. Ltd.  
32 Shand Street  
Stafford  
Brisbane QLD 4053  
Phone: +61 7 3243 7222 Fax: +61 7 3243 7218  
www.alsglobal.com/geochemistry

To: EARTH AI OPERATIONS AUSTRALIA PTY LTD  
UNIT 8  
7-29 BRIDGE RD  
STANMORE NSW 2048

Page: 2 - E  
Total # Pages: 2 (A - E)  
Plus Appendix Pages  
Finalized Date: 8-MAY-2025  
Account: EARTOP

Project: ESA03D

**CERTIFICATE OF ANALYSIS AD25105076**

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Pr	Sm	Tb	Tm	Yb
		ppm	ppm	ppm	ppm	ppm
		0.03	0.03	0.01	0.01	0.03
ESA03D_010		1.09	0.70	0.07	0.05	0.33
ESA03D_011		4.61	4.09	0.46	0.14	0.94
ESA03D_012						
ESA03D_300.0-302.0		0.39	0.40	0.08	0.03	0.21
ESA03D_302.0-304.0		0.25	0.29	0.06	0.02	0.16
ESA03D_304.0-305.0		1.25	1.18	0.16	0.06	0.43
ESA03D_305.0-306.0		0.90	0.83	0.13	0.06	0.41
ESA03D_306.0-308.0		0.61	0.67	0.16	0.06	0.40
ESA03D_308.0-310.0		0.55	0.61	0.11	0.04	0.27
ESA03D_310.0-312.0		0.69	0.67	0.09	0.03	0.22
ESA03D_312.0-314.0		0.12	0.23	0.07	0.03	0.20
ESA03D_314.0-316.0		0.25	0.51	0.14	0.06	0.49
ESA03D_316.0-318.0		0.33	0.41	0.07	0.04	0.29
ESA03D_318.0-320.0		0.05	0.11	0.05	0.04	0.23
ESA03D_320.0-321.0		0.05	0.14	0.05	0.03	0.24
ESA03D_321.0-322.0		0.13	0.21	0.04	0.02	0.16
ESA03D_322.0-324.0		0.08	0.11	0.02	0.01	0.10
ESA03D_324.0-326.0		0.04	0.03	0.01	<0.01	0.03
ESA03D_326.0-327.0		0.14	0.13	0.02	0.01	0.07
ESA03D_327.0-328.0		0.10	0.08	0.02	0.01	0.06
ESA03D_328.0-329.0		0.07	0.13	0.03	0.02	0.11
ESA03D_329.0-330.0		0.09	0.13	0.04	0.02	0.15
ESA03D_330.0-331.0		0.13	0.19	0.05	0.03	0.18
ESA03D_331.0-332.0		<0.03	0.03	0.01	0.01	0.05
ESA03D_332.0-333.0		0.04	0.09	0.02	0.02	0.14
ESA03D_333.0-334.0		0.10	0.16	0.05	0.02	0.17
ESA03D_334.0-336.0		0.12	0.13	0.03	0.01	0.09
ESA03D_336.0-338.0		0.44	0.45	0.07	0.03	0.17
ESA03D_338.0-340.0		0.56	0.81	0.13	0.04	0.23
ESA03D_340.0-341.0		0.98	0.78	0.10	0.03	0.20
ESA03D_341.0-342.0		0.66	0.63	0.09	0.03	0.20
ESA03D_342.0-343.0		0.32	0.29	0.04	0.01	0.10
ESA03D_343.0-344.0		0.59	0.58	0.08	0.03	0.20
ESA03D_344.0-345.0		0.53	0.53	0.11	0.05	0.35
ESA03D_345.0-346.0		0.21	0.19	0.04	0.01	0.11
ESA03D_346.0-347.0		0.18	0.15	0.02	0.01	0.05
ESA03D_347.0-348.0		0.17	0.15	0.02	0.01	0.06
ESA03D_348.0-349.1		0.34	0.24	0.02	0.01	0.03



Australian Laboratory Services Pty. Ltd.  
32 Shand Street  
Stafford  
Brisbane QLD 4053  
Phone: +61 7 3243 7222 Fax: +61 7 3243 7218  
www.alsglobal.com/geochemistry

To: EARTH AI OPERATIONS AUSTRALIA PTY LTD  
UNIT 8  
7-29 BRIDGE RD  
STANMORE NSW 2048

Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 8-MAY-2025  
Account: EARTOP

Project: ESA03D

**CERTIFICATE OF ANALYSIS AD25105076**

	CERTIFICATE COMMENTS
	<p><b>ANALYTICAL COMMENTS</b></p> <p>Applies to Method: REEs may not be totally soluble in this method. ME-MS61r</p> <p><b>LABORATORY ADDRESSES</b></p> <p>Applies to Method: Processed at ALS Perth located at 29 &amp; 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>