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

Page: 1
Total # Pages: 3 (A – E)
Plus Appendix Pages
Finalized Date: 15-APR-2025
Account: EARTOP

CERTIFICATE AD25083124

Project: ESA02D

This report is for 51 samples of Drill Core submitted to our lab in Adelaide, SA, Australia on 28-MAR-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
HOM-01	Homogenize by light pulverizing
WEI-21	Received Sample Weight
SPLIT-Z	Pulp split for send out
STDINS-01	Standard Insertion Charge
LEV-01	Waste Disposal Levy
BLKINS-01	Insertion of blank material
LOG-22	Sample login – Rcd w/o BarCode
LOG-24	Pulp Login – Rcd w/o Barcode
CRU-21	Crush entire sample
CRU-32	Fine Crushing 90% <2mm
SPL-22Y	Split Sample – Boyd Rotary Splitter

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 AD25083124

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.	Pass75um	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
ESA02D_001		1.68	91.0	<0.001	<0.005	0.002	0.01	2.61	0.9	410	0.16	0.03	0.02	<0.02	6.64	0.3
ESA02D_002							59.6	3.57	480	500	1.26	4.07	1.17	17.95	37.9	638
ESA02D_0.0-5.0		5.91	92.0	<0.001	<0.005	0.001	0.04	6.32	0.5	190	4.23	0.68	0.21	<0.02	27.6	4.9
ESA02D_5.0-10.0		8.02	95.0	<0.001	<0.005	0.001	0.01	6.37	0.5	250	5.74	1.67	0.23	0.03	47.2	9.9
ESA02D_10.0-12.0		3.00		0.004	<0.005	0.001	<0.01	6.69	1.1	230	3.47	1.47	0.42	<0.02	19.30	4.1
ESA02D_12.0-14.0		4.01		0.001	<0.005	0.001	0.01	8.76	<0.2	240	3.07	0.35	0.85	<0.02	8.23	1.4
ESA02D_14.0-16.0		3.05		<0.001	<0.005	<0.001	0.02	7.13	<0.2	310	2.15	0.76	0.17	<0.02	8.54	1.7
ESA02D_16.0-18.0		3.92		<0.001	<0.005	0.001	0.02	7.10	0.6	170	4.68	0.89	1.02	<0.02	16.55	1.2
ESA02D_18.0-20.0		3.36		<0.001	<0.005	<0.001	<0.01	7.51	0.7	230	5.80	0.58	0.31	<0.02	34.1	5.6
ESA02D_20.0-22.0		3.25		<0.001	<0.005	<0.001	0.02	4.50	0.8	180	4.81	0.19	0.07	<0.02	70.0	7.7
ESA02D_22.0-24.0		2.96		0.020	<0.005	0.001	0.01	8.54	0.8	400	7.45	0.29	0.17	<0.02	56.0	14.8
ESA02D_24.0-26.0		2.57		0.001	<0.005	0.001	0.02	7.18	1.2	360	8.08	0.44	0.15	0.02	60.4	12.4
ESA02D_26.0-28.0		2.80		<0.001	<0.005	<0.001	0.01	4.17	0.8	200	4.66	0.18	0.16	<0.02	18.05	5.1
ESA02D_28.0-30.0		2.86		<0.001	<0.005	<0.001	0.03	6.86	0.6	320	8.32	0.21	0.27	<0.02	27.8	1.2
ESA02D_30.0-32.0		2.86		0.001	<0.005	0.001	0.01	5.39	0.3	160	9.72	0.19	0.24	<0.02	58.3	4.4
ESA02D_32.0-34.0		3.61		<0.001	<0.005	0.001	0.08	4.46	0.5	110	4.40	0.14	0.26	<0.02	79.9	6.5
ESA02D_34.0-36.0		2.92		<0.001	<0.005	<0.001	0.03	7.42	0.6	100	4.25	0.35	0.79	<0.02	18.95	1.7
ESA02D_36.0-38.0		2.78		0.001	<0.005	<0.001	0.02	7.34	<0.2	150	3.58	0.61	0.79	<0.02	22.3	6.6
ESA02D_38.0-40.0		3.54		<0.001	<0.005	0.001	0.06	6.41	0.4	60	2.95	0.45	5.01	0.02	50.1	8.2
ESA02D_40.0-42.0		3.98		<0.001	<0.005	0.001	0.02	6.62	0.8	50	6.05	1.75	5.53	0.03	56.0	23.0
ESA02D_42.0-44.0		3.70		0.001	<0.005	<0.001	0.03	7.61	1.2	110	7.54	1.44	3.82	0.06	25.5	26.0
ESA02D_44.0-46.0		3.64		0.001	<0.005	<0.001	0.02	6.92	2.0	70	23.2	0.64	3.77	0.05	51.5	24.2
ESA02D_46.0-48.0		3.47		<0.001	<0.005	<0.001	0.01	7.12	0.5	40	4.03	0.23	0.62	<0.02	18.55	1.5
ESA02D_48.0-50.0		3.42		0.003	<0.005	<0.001	0.01	6.51	0.3	110	2.54	0.20	0.32	<0.02	5.64	0.9
ESA02D_50.0-52.0		3.11		<0.001	<0.005	0.001	0.01	5.78	0.4	120	3.98	0.53	0.28	<0.02	62.4	2.6
ESA02D_52.0-54.0		3.26		0.001	<0.005	<0.001	0.01	6.89	0.5	150	4.18	1.06	0.48	<0.02	56.6	3.6
ESA02D_54.0-56.0		3.47		0.001	<0.005	0.001	0.02	6.91	0.2	140	4.80	0.40	0.67	<0.02	71.6	3.1
ESA02D_56.0-58.0		3.33		0.001	<0.005	<0.001	0.02	6.50	0.6	190	2.63	0.42	0.41	<0.02	35.2	1.6
ESA02D_58.0-60.0		3.09		<0.001	<0.005	<0.001	0.01	7.27	0.5	190	2.56	0.17	0.45	<0.02	54.8	1.8
ESA02D_60.0-62.0		3.58		<0.001	<0.005	0.001	0.01	6.98	0.7	180	2.33	0.32	0.50	<0.02	58.0	2.7
ESA02D_62.0-64.0		3.09		0.001	<0.005	<0.001	0.02	6.11	0.2	120	2.45	0.45	0.42	<0.02	44.6	3.9
ESA02D_64.0-65.0		1.43		0.001	<0.005	<0.001	0.01	6.29	0.5	130	2.85	0.30	0.37	<0.02	26.6	6.3
ESA02D_65.0-66.0		1.44		<0.001	<0.005	0.001	0.01	4.29	1.2	30	2.12	0.47	0.20	<0.02	28.2	22.2
ESA02D_66.0-68.0		3.34		<0.001	<0.005	0.001	0.01	6.55	0.2	140	3.27	0.40	0.32	<0.02	32.5	3.9
ESA02D_68.0-70.0		3.42		<0.001	<0.005	<0.001	0.01	6.88	0.3	120	2.82	0.58	0.45	<0.02	50.3	1.1
ESA02D_70.0-72.0		3.53		<0.001	<0.005	0.001	0.01	6.94	0.7	180	2.86	0.41	0.47	<0.02	144.0	1.6
ESA02D_72.0-74.0		3.00		<0.001	<0.005	0.001	<0.01	7.30	<0.2	140	2.87	0.79	0.39	<0.02	157.0	1.6
ESA02D_74.0-76.0		3.53		<0.001	<0.005	<0.001	0.01	7.15	0.2	200	2.71	0.90	0.41	<0.02	114.0	1.3
ESA02D_76.0-78.0		3.36		<0.001	<0.005	<0.001	0.02	7.22	<0.2	190	2.63	0.78	0.39	<0.02	102.5	1.5
ESA02D_78.0-80.0		3.43		<0.001	<0.005	0.001	0.02	6.65	<0.2	50	2.52	0.47	0.35	<0.02	65.3	1.3



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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
ESA02D_001		4	0.71	1.5	0.38	4.48	0.06	1.4	0.018	3.00	4.0	2.6	0.03	34	0.30
ESA02D_002		36	5.92	6620	4.13	9.69	0.22	1.1	0.545	1.30	20.3	28.8	0.50	777	852
ESA02D_0.0-5.0		14	3.66	2.2	1.26	18.25	0.12	1.6	0.036	2.62	13.5	3.7	0.35	96	0.65
ESA02D_5.0-10.0		37	5.22	2.4	2.87	26.1	0.11	2.6	0.085	2.72	23.4	6.2	0.57	346	0.94
ESA02D_10.0-12.0		17	4.26	1.6	1.45	18.00	0.08	1.0	0.040	3.75	9.5	2.8	0.34	150	0.48
ESA02D_12.0-14.0		5	3.92	1.3	0.62	18.25	0.11	0.3	0.025	4.70	4.3	1.8	0.51	73	0.28
ESA02D_14.0-16.0		5	5.55	1.6	0.63	13.10	0.09	0.1	0.020	5.96	4.5	1.3	0.13	86	0.32
ESA02D_16.0-18.0		7	4.67	1.6	0.64	16.15	0.11	1.1	0.020	4.01	8.8	2.3	0.55	82	0.33
ESA02D_18.0-20.0		28	5.21	1.9	1.60	20.7	0.09	1.1	0.054	3.61	17.6	4.2	0.43	155	0.52
ESA02D_20.0-22.0		38	6.25	1.8	2.57	18.35	0.11	3.3	0.067	2.16	35.5	6.0	0.58	237	0.74
ESA02D_22.0-24.0		84	8.50	3.4	3.63	32.0	0.11	2.8	0.107	3.93	27.5	9.9	0.99	199	1.00
ESA02D_24.0-26.0		39	7.80	5.4	2.85	23.3	0.11	2.9	0.087	3.39	33.2	7.5	0.71	154	1.54
ESA02D_26.0-28.0		19	3.48	1.4	1.46	12.20	0.06	1.3	0.041	1.95	8.9	4.1	0.38	131	0.50
ESA02D_28.0-30.0		9	4.05	1.5	0.81	15.70	0.08	1.2	0.021	3.87	14.7	2.0	0.21	126	0.39
ESA02D_30.0-32.0		22	4.61	1.3	1.67	17.55	0.10	2.6	0.053	2.46	28.8	5.7	0.63	203	0.36
ESA02D_32.0-34.0		30	5.06	1.4	1.83	15.45	0.12	2.6	0.053	1.56	41.9	5.9	0.56	220	0.39
ESA02D_34.0-36.0		52	2.61	2.8	1.03	17.35	0.10	1.4	0.017	1.61	10.8	1.6	0.15	760	1.39
ESA02D_36.0-38.0		25	3.02	1.3	1.64	22.3	0.11	1.8	0.053	1.74	11.2	6.6	0.79	206	0.40
ESA02D_38.0-40.0		8	1.18	2.0	4.07	23.0	0.14	2.2	0.338	1.46	23.9	6.9	1.19	377	0.52
ESA02D_40.0-42.0		9	0.63	17.4	6.97	25.3	0.15	2.2	0.309	0.34	25.7	11.8	1.80	677	0.83
ESA02D_42.0-44.0		53	1.35	36.8	5.66	19.20	0.11	1.6	0.079	0.79	12.1	12.4	2.14	815	0.55
ESA02D_44.0-46.0		80	0.84	29.9	5.02	18.00	0.12	0.7	0.053	0.67	26.8	7.4	2.08	721	0.40
ESA02D_46.0-48.0		20	0.91	1.8	0.65	14.75	0.09	0.7	0.006	0.98	9.9	1.7	0.19	308	0.60
ESA02D_48.0-50.0		8	2.57	1.3	0.53	11.55	0.07	0.8	0.008	3.92	3.1	1.3	0.11	159	0.37
ESA02D_50.0-52.0		21	1.89	1.7	1.24	17.25	0.11	1.4	0.024	1.69	33.5	7.2	1.00	222	0.56
ESA02D_52.0-54.0		12	2.50	1.4	0.80	17.85	0.09	2.4	0.029	2.61	28.8	2.7	0.29	189	0.47
ESA02D_54.0-56.0		17	2.70	1.8	1.17	20.2	0.12	3.0	0.035	2.52	37.1	3.8	0.37	156	0.59
ESA02D_56.0-58.0		7	3.26	1.1	0.80	16.30	0.09	1.6	0.023	3.83	17.8	2.0	0.19	121	0.32
ESA02D_58.0-60.0		6	3.40	1.1	0.82	19.30	0.11	2.5	0.026	4.07	27.2	2.2	0.22	131	0.51
ESA02D_60.0-62.0		12	3.44	1.4	0.94	18.65	0.10	2.6	0.032	3.99	28.9	2.2	0.22	185	2.49
ESA02D_62.0-64.0		12	2.73	1.5	0.91	16.95	0.09	2.0	0.020	2.68	21.9	2.7	0.33	190	0.67
ESA02D_64.0-65.0		26	2.71	1.8	0.95	17.30	0.08	1.4	0.022	2.17	13.1	2.8	0.37	351	0.90
ESA02D_65.0-66.0		16	0.79	1.5	1.66	10.10	0.08	0.5	0.008	0.42	15.3	3.3	0.48	181	0.68
ESA02D_66.0-68.0		16	3.32	1.2	0.92	18.45	0.09	1.6	0.032	2.22	16.4	3.9	0.52	150	0.38
ESA02D_68.0-70.0		6	3.24	1.7	0.73	17.30	0.10	2.2	0.022	2.86	24.8	2.2	0.22	118	0.41
ESA02D_70.0-72.0		10	3.65	1.2	1.21	17.00	0.17	4.9	0.031	3.19	77.2	3.6	0.35	165	0.47
ESA02D_72.0-74.0		8	3.60	0.6	0.96	19.50	0.18	4.3	0.028	2.86	79.6	4.1	0.38	143	0.42
ESA02D_74.0-76.0		9	4.05	0.7	1.01	19.05	0.14	3.7	0.033	3.83	60.0	3.9	0.31	166	0.61
ESA02D_76.0-78.0		11	3.97	1.0	1.13	20.8	0.15	3.5	0.031	3.45	51.6	4.1	0.35	212	0.65
ESA02D_78.0-80.0		10	1.54	0.8	0.92	19.50	0.12	2.2	0.020	1.02	35.1	4.0	0.49	153	0.43



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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
ESA02D_001		0.9	0.8	20	7.5	117.0	0.006	<0.01	0.13	0.5	<1	0.3	15.4	0.08	<0.05
ESA02D_002		6.6	6170	570	6960	83.7	0.470	2.77	656	5.1	3	2.1	85.3	0.57	0.38
ESA02D_0.0-5.0		11.5	8.6	140	23.4	179.0	0.007	<0.01	0.07	4.6	<1	6.8	37.9	1.58	<0.05
ESA02D_5.0-10.0		24.9	21.0	260	10.0	236	0.004	<0.01	0.09	9.4	<1	11.9	31.6	2.98	<0.05
ESA02D_10.0-12.0		12.0	11.2	350	25.1	238	0.003	<0.01	0.09	4.2	<1	7.4	51.0	1.52	<0.05
ESA02D_12.0-14.0		6.9	4.8	370	22.6	246	0.005	<0.01	0.05	2.6	<1	6.9	77.8	1.50	<0.05
ESA02D_14.0-16.0		4.6	3.2	350	28.9	319	0.004	<0.01	0.06	3.2	<1	6.3	44.5	1.08	<0.05
ESA02D_16.0-18.0		4.0	3.8	190	22.8	239	0.004	<0.01	0.07	3.7	<1	5.5	79.6	0.87	<0.05
ESA02D_18.0-20.0		9.5	11.8	300	17.2	263	0.003	<0.01	0.06	5.1	<1	9.3	41.5	1.29	<0.05
ESA02D_20.0-22.0		14.7	16.2	310	3.9	203	0.002	<0.01	0.08	6.8	<1	6.6	8.5	1.57	<0.05
ESA02D_22.0-24.0		15.7	29.3	560	5.7	367	0.003	<0.01	<0.05	11.9	<1	14.0	16.4	1.75	<0.05
ESA02D_24.0-26.0		13.7	15.8	530	6.0	315	0.002	<0.01	<0.05	8.7	<1	11.0	12.1	1.65	<0.05
ESA02D_26.0-28.0		6.7	7.4	520	5.2	157.0	0.002	<0.01	0.06	3.5	<1	6.5	12.8	1.24	<0.05
ESA02D_28.0-30.0		4.4	2.7	520	19.7	232	0.002	<0.01	0.07	1.3	<1	3.8	48.3	1.44	<0.05
ESA02D_30.0-32.0		11.2	11.8	410	9.2	189.0	<0.002	<0.01	0.06	4.1	<1	6.2	26.1	1.91	<0.05
ESA02D_32.0-34.0		12.0	11.4	340	6.0	130.0	<0.002	<0.01	0.07	6.1	<1	6.3	26.4	1.37	<0.05
ESA02D_34.0-36.0		5.1	4.6	410	14.9	94.9	0.003	<0.01	0.13	2.1	<1	3.8	66.9	0.69	<0.05
ESA02D_36.0-38.0		13.5	11.0	440	10.0	109.0	0.002	<0.01	0.07	6.4	<1	9.8	76.5	1.98	<0.05
ESA02D_38.0-40.0		10.5	1.3	1630	20.0	66.0	0.002	<0.01	0.08	25.6	<1	7.6	380	0.77	<0.05
ESA02D_40.0-42.0		12.4	6.5	2000	5.9	21.0	0.002	0.21	0.07	33.2	1	27.4	376	1.84	<0.05
ESA02D_42.0-44.0		13.0	31.1	970	8.4	42.9	0.002	0.03	0.08	26.3	<1	26.5	168.5	10.60	<0.05
ESA02D_44.0-46.0		4.7	28.4	900	6.0	39.4	0.002	0.05	0.07	25.8	1	21.6	122.5	1.95	<0.05
ESA02D_46.0-48.0		3.7	2.0	560	11.2	50.6	<0.002	<0.01	0.06	1.6	<1	4.2	43.1	0.97	<0.05
ESA02D_48.0-50.0		1.1	1.4	520	20.0	192.5	<0.002	<0.01	0.06	0.9	<1	3.3	36.6	0.27	<0.05
ESA02D_50.0-52.0		8.6	12.4	380	7.5	114.5	<0.002	<0.01	0.08	3.8	<1	5.0	34.0	1.22	<0.05
ESA02D_52.0-54.0		8.7	3.1	670	15.6	148.0	0.005	0.01	0.06	2.9	<1	7.3	46.5	1.65	<0.05
ESA02D_54.0-56.0		11.4	7.9	760	18.8	165.5	<0.002	<0.01	0.05	3.5	<1	4.9	60.8	1.28	<0.05
ESA02D_56.0-58.0		6.6	1.2	570	26.0	221	<0.002	<0.01	0.05	2.1	<1	4.5	50.3	0.88	<0.05
ESA02D_58.0-60.0		7.8	1.3	610	30.7	248	<0.002	<0.01	<0.05	2.2	<1	4.7	55.5	0.75	<0.05
ESA02D_60.0-62.0		7.9	1.5	710	25.1	245	<0.002	0.01	0.06	2.5	<1	4.1	53.0	0.77	<0.05
ESA02D_62.0-64.0		8.1	2.7	760	15.4	160.0	<0.002	0.01	0.10	2.2	<1	5.7	53.0	0.88	<0.05
ESA02D_64.0-65.0		7.4	5.0	530	11.4	149.5	<0.002	0.01	0.06	3.0	<1	7.1	52.0	1.27	<0.05
ESA02D_65.0-66.0		4.5	8.1	320	3.3	33.8	<0.002	0.08	0.08	1.7	<1	2.3	49.3	0.80	0.09
ESA02D_66.0-68.0		10.1	6.9	550	8.2	166.5	<0.002	<0.01	0.07	3.5	<1	7.7	42.3	1.37	<0.05
ESA02D_68.0-70.0		9.0	2.3	690	18.4	181.5	<0.002	<0.01	0.14	3.0	<1	7.2	49.3	1.52	<0.05
ESA02D_70.0-72.0		14.3	2.5	690	26.5	177.5	<0.002	<0.01	0.08	4.1	<1	6.6	59.8	1.70	<0.05
ESA02D_72.0-74.0		14.6	2.3	750	19.8	181.5	0.003	<0.01	0.05	4.8	<1	7.6	58.8	1.79	<0.05
ESA02D_74.0-76.0		12.8	2.0	700	26.4	240	0.003	<0.01	0.05	4.1	<1	7.1	60.3	1.53	<0.05
ESA02D_76.0-78.0		13.6	2.7	880	23.5	241	0.003	<0.01	0.07	4.8	<1	8.1	60.0	1.77	<0.05
ESA02D_78.0-80.0		15.7	3.4	720	7.1	85.0	0.002	<0.01	0.06	5.4	<1	9.0	53.8	2.07	<0.05



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 Plus Appendix Pages
 Finalized Date: 15-APR-2025
 Account: EARTOP

Project: ESA02D

CERTIFICATE OF ANALYSIS AD25083124

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	ME-MS61r
		Ti	Ti	U	V	W	Y	Zn	Zr	Dy	Er	Eu	Gd	Ho	Lu	Nd
		%	ppm	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	0.1
ESA02D_001		0.022	0.55	0.4	4	0.1	1.9	<2	50.7	0.37	0.23	0.20	0.37	0.08	0.05	3.2
ESA02D_002		0.184	1.35	2.8	39	5.2	10.1	7210	36.4	2.59	0.95	0.73	3.04	0.35	0.12	17.9
ESA02D_0.0-5.0		0.100	0.65	7.5	17	1.7	8.3	15	45.3	1.67	0.92	0.40	2.00	0.31	0.13	12.2
ESA02D_5.0-10.0		0.226	0.74	13.4	36	3.3	12.7	33	85.9	2.51	1.36	0.43	2.93	0.47	0.22	18.6
ESA02D_10.0-12.0		0.095	0.90	4.7	12	1.9	9.9	15	35.1	1.46	0.92	0.34	1.37	0.31	0.16	7.2
ESA02D_12.0-14.0		0.051	0.95	2.9	4	1.6	7.6	8	7.7	1.17	0.77	0.31	1.05	0.23	0.11	3.6
ESA02D_14.0-16.0		0.033	1.31	3.0	3	1.6	6.7	5	4.1	1.24	0.71	0.48	1.38	0.22	0.09	5.5
ESA02D_16.0-18.0		0.035	1.04	3.1	4	1.7	8.2	8	31.1	1.51	0.92	0.46	1.70	0.29	0.13	8.5
ESA02D_18.0-20.0		0.123	0.95	10.8	23	1.9	12.7	19	38.9	2.23	1.23	0.51	2.34	0.42	0.20	13.5
ESA02D_20.0-22.0		0.203	0.68	22.2	33	1.2	15.1	27	114.0	3.03	1.43	0.55	3.88	0.55	0.20	27.6
ESA02D_22.0-24.0		0.296	1.13	26.2	66	2.7	13.5	40	100.0	2.86	1.38	0.53	3.30	0.52	0.21	22.3
ESA02D_24.0-26.0		0.252	0.99	28.1	52	3.8	20.1	24	101.5	3.56	1.84	0.65	3.95	0.68	0.25	24.1
ESA02D_26.0-28.0		0.104	0.55	9.4	19	3.0	4.4	11	43.2	0.93	0.47	0.21	1.13	0.18	0.07	6.9
ESA02D_28.0-30.0		0.035	0.90	2.7	6	1.5	5.8	8	30.6	1.08	0.50	0.33	1.43	0.19	0.07	10.5
ESA02D_30.0-32.0		0.147	0.66	7.1	21	3.4	11.7	19	87.7	2.22	1.05	0.46	2.90	0.40	0.16	23.2
ESA02D_32.0-34.0		0.192	0.43	13.1	31	2.8	16.2	18	91.6	3.08	1.44	0.59	4.09	0.54	0.20	30.7
ESA02D_34.0-36.0		0.047	0.36	4.1	8	1.4	6.8	9	39.0	1.06	0.58	0.43	1.27	0.19	0.08	7.3
ESA02D_36.0-38.0		0.177	0.32	5.3	36	2.3	9.3	12	54.4	1.70	1.05	0.40	1.66	0.33	0.16	9.4
ESA02D_38.0-40.0		0.987	0.29	5.4	68	1.1	58.3	16	78.2	10.15	6.09	2.39	8.89	2.13	0.87	27.6
ESA02D_40.0-42.0		1.105	0.14	5.6	134	1.4	67.1	32	99.0	11.35	6.89	2.28	9.95	2.45	0.95	31.3
ESA02D_42.0-44.0		0.498	0.20	4.1	174	0.8	22.6	36	57.1	3.80	2.39	0.83	3.32	0.84	0.35	12.0
ESA02D_44.0-46.0		0.438	0.18	3.1	158	1.2	20.8	38	23.8	3.62	2.15	0.95	3.64	0.78	0.31	21.0
ESA02D_46.0-48.0		0.029	0.23	2.5	4	0.4	6.4	4	19.5	1.15	0.63	0.27	1.15	0.21	0.12	6.6
ESA02D_48.0-50.0		0.011	0.72	2.1	2	0.4	3.5	6	20.0	0.59	0.34	0.15	0.57	0.11	0.08	2.4
ESA02D_50.0-52.0		0.087	0.42	8.3	27	0.7	9.6	10	43.1	2.25	0.85	0.65	3.51	0.34	0.10	23.6
ESA02D_52.0-54.0		0.071	0.49	9.1	8	1.3	10.1	7	73.1	2.05	0.82	0.45	2.97	0.32	0.11	21.1
ESA02D_54.0-56.0		0.094	0.61	14.0	9	0.9	10.5	8	97.2	2.39	0.89	0.52	3.85	0.37	0.11	28.1
ESA02D_56.0-58.0		0.056	0.85	9.7	3	0.8	5.4	6	45.7	1.26	0.44	0.39	2.08	0.19	0.05	12.9
ESA02D_58.0-60.0		0.066	0.90	10.6	4	0.8	7.2	7	73.0	1.74	0.56	0.47	3.05	0.25	0.07	19.7
ESA02D_60.0-62.0		0.069	0.87	17.0	4	0.8	9.4	8	76.6	2.00	0.72	0.45	3.27	0.30	0.08	21.2
ESA02D_62.0-64.0		0.059	0.54	9.9	5	0.7	9.4	6	62.5	2.00	0.71	0.35	2.87	0.31	0.08	16.8
ESA02D_64.0-65.0		0.058	0.52	7.3	10	1.5	9.4	6	44.0	1.63	0.81	0.34	1.69	0.30	0.12	9.8
ESA02D_65.0-66.0		0.038	0.16	11.4	12	0.4	7.0	6	15.2	1.37	0.61	0.28	1.67	0.24	0.07	10.2
ESA02D_66.0-68.0		0.090	0.58	7.9	16	1.6	9.8	9	50.6	1.80	0.87	0.41	2.19	0.33	0.12	12.2
ESA02D_68.0-70.0		0.060	0.65	7.6	4	1.8	6.9	15	67.7	1.65	0.59	0.37	2.30	0.25	0.07	17.3
ESA02D_70.0-72.0		0.100	0.63	17.6	9	1.1	13.6	9	165.5	3.48	1.01	0.70	5.81	0.49	0.09	50.8
ESA02D_72.0-74.0		0.087	0.64	15.4	9	1.3	14.3	8	145.0	3.68	1.11	0.83	6.04	0.53	0.12	55.0
ESA02D_74.0-76.0		0.083	0.90	15.0	7	1.1	13.2	10	127.5	3.08	1.02	0.69	5.01	0.46	0.12	43.1
ESA02D_76.0-78.0		0.094	0.88	14.4	8	1.4	12.4	11	120.5	2.83	0.99	0.64	4.40	0.44	0.11	37.4
ESA02D_78.0-80.0		0.116	0.27	9.3	10	1.4	11.8	6	70.4	2.50	1.02	0.57	3.49	0.41	0.14	26.0



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UNIT 8
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Project: ESA02D

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CERTIFICATE OF ANALYSIS AD25083124

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
ESA02D_001		0.89	0.54	0.06	0.04	0.29
ESA02D_002		4.36	3.51	0.42	0.12	0.79
ESA02D_0.0-5.0		3.26	2.50	0.28	0.13	0.94
ESA02D_5.0-10.0		5.33	3.79	0.44	0.22	1.54
ESA02D_10.0-12.0		2.07	1.59	0.23	0.15	1.07
ESA02D_12.0-14.0		0.95	0.89	0.17	0.11	0.74
ESA02D_14.0-16.0		1.17	1.52	0.20	0.09	0.68
ESA02D_16.0-18.0		2.07	1.99	0.25	0.13	0.96
ESA02D_18.0-20.0		3.79	2.87	0.39	0.18	1.34
ESA02D_20.0-22.0		8.53	5.42	0.60	0.21	1.37
ESA02D_22.0-24.0		6.35	4.52	0.52	0.20	1.45
ESA02D_24.0-26.0		6.74	4.77	0.61	0.27	1.76
ESA02D_26.0-28.0		1.98	1.46	0.18	0.07	0.48
ESA02D_28.0-30.0		3.05	2.04	0.21	0.07	0.51
ESA02D_30.0-32.0		6.62	4.53	0.43	0.16	1.06
ESA02D_32.0-34.0		9.34	5.84	0.59	0.21	1.36
ESA02D_34.0-36.0		1.99	1.40	0.18	0.08	0.56
ESA02D_36.0-38.0		2.47	1.93	0.26	0.16	1.14
ESA02D_38.0-40.0		6.50	7.64	1.57	0.89	5.85
ESA02D_40.0-42.0		7.29	8.65	1.74	1.00	6.54
ESA02D_42.0-44.0		3.07	3.06	0.59	0.35	2.37
ESA02D_44.0-46.0		5.86	4.36	0.60	0.32	2.18
ESA02D_46.0-48.0		1.98	1.47	0.20	0.11	0.80
ESA02D_48.0-50.0		0.66	0.59	0.10	0.07	0.50
ESA02D_50.0-52.0		6.84	5.10	0.50	0.12	0.78
ESA02D_52.0-54.0		6.29	4.63	0.43	0.13	0.83
ESA02D_54.0-56.0		8.51	6.21	0.53	0.13	0.83
ESA02D_56.0-58.0		3.90	2.90	0.29	0.06	0.40
ESA02D_58.0-60.0		5.91	4.53	0.41	0.07	0.47
ESA02D_60.0-62.0		6.29	4.85	0.46	0.09	0.55
ESA02D_62.0-64.0		4.96	3.97	0.44	0.10	0.63
ESA02D_64.0-65.0		2.86	2.17	0.28	0.13	0.91
ESA02D_65.0-66.0		2.97	2.23	0.26	0.09	0.56
ESA02D_66.0-68.0		3.52	2.67	0.34	0.13	0.80
ESA02D_68.0-70.0		5.31	3.60	0.35	0.08	0.54
ESA02D_70.0-72.0		16.25	9.08	0.81	0.12	0.67
ESA02D_72.0-74.0		16.70	9.23	0.82	0.14	0.82
ESA02D_74.0-76.0		13.10	7.54	0.69	0.14	0.83
ESA02D_76.0-78.0		11.65	6.60	0.63	0.14	0.82
ESA02D_78.0-80.0		8.00	4.93	0.51	0.16	1.00



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Finalized Date: 15-APR-2025
Account: EARTOP

Project: ESA02D

CERTIFICATE OF ANALYSIS AD25083124

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
ESA02D_80.0-82.0		3.44		<0.001	<0.005	0.001	<0.01	7.21	<0.2	110	3.15	0.45	0.41	<0.02	53.5	2.4
ESA02D_82.0-84.0		2.91		<0.001	<0.005	0.001	0.01	6.47	<0.2	70	3.08	0.27	0.35	0.03	65.5	1.2
ESA02D_84.0-86.0		3.01		<0.001	<0.005	<0.001	<0.01	6.71	<0.2	130	2.94	0.54	0.37	<0.02	66.4	1.2
ESA02D_86.0-88.0		3.39		<0.001	<0.005	<0.001	<0.01	7.29	<0.2	200	2.62	0.65	0.44	<0.02	120.5	1.4
ESA02D_88.0-90.0		3.48	98.0	0.001	<0.005	<0.001	<0.01	7.32	<0.2	130	3.09	0.86	0.73	<0.02	131.0	3.7
ESA02D_90.0-92.0		3.58		0.001	<0.005	0.001	<0.01	7.24	<0.2	160	2.71	0.42	0.42	<0.02	129.0	1.2
ESA02D_92.0-94.0		3.89		<0.001	<0.005	0.001	0.01	7.20	<0.2	160	2.97	0.84	0.35	<0.02	119.5	1.0
ESA02D_94.0-96.0		3.15		<0.001	<0.005	<0.001	<0.01	7.29	<0.2	180	3.24	1.03	0.43	<0.02	120.5	1.2
ESA02D_96.0-98.0		3.24		<0.001	<0.005	<0.001	0.02	7.08	<0.2	180	2.56	0.69	0.39	<0.02	146.0	1.2
ESA02D_98.0-100.0		2.45		0.001	<0.005	0.001	0.01	7.14	<0.2	150	2.91	1.14	0.39	<0.02	111.5	2.2
ESA02D_002B				0.822	0.016	0.226										



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Project: ESA02D

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CERTIFICATE OF ANALYSIS AD25083124

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
ESA02D_80.0-82.0		22	1.96	1.0	1.25	19.60	0.11	2.1	0.018	1.66	29.3	7.6	0.84	291	0.84	3.86
ESA02D_82.0-84.0		10	1.08	0.7	0.93	16.15	0.11	2.4	0.010	1.00	31.1	5.3	0.60	159	0.47	4.07
ESA02D_84.0-86.0		9	2.16	0.6	0.91	15.95	0.10	2.4	0.024	2.63	32.9	3.5	0.39	146	0.42	3.25
ESA02D_86.0-88.0		14	3.20	0.8	1.05	18.25	0.15	3.0	0.034	3.77	60.8	3.8	0.43	178	1.14	2.69
ESA02D_88.0-90.0		24	3.07	1.2	2.08	23.9	0.16	3.4	0.043	2.42	67.0	7.3	1.04	195	1.20	2.66
ESA02D_90.0-92.0		11	2.81	0.7	1.03	16.75	0.15	4.0	0.026	3.01	64.1	3.2	0.32	193	2.13	3.29
ESA02D_92.0-94.0		9	10.10	0.7	0.82	16.20	0.14	3.1	0.022	3.27	66.0	2.3	0.25	176	0.90	3.14
ESA02D_94.0-96.0		9	5.70	0.8	0.91	19.00	0.15	3.4	0.027	3.66	62.3	2.1	0.24	160	0.51	2.72
ESA02D_96.0-98.0		8	4.44	0.8	0.88	18.80	0.20	4.1	0.026	3.48	72.5	2.5	0.32	144	0.49	2.75
ESA02D_98.0-100.0		19	2.98	1.1	0.85	17.30	0.14	2.9	0.030	3.43	57.3	1.6	0.25	328	0.94	2.93
ESA02D_002B																



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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
ESA02D_80.0-82.0		13.4	8.4	930	8.5	115.0	0.002	<0.01	0.07	5.9	<1	7.9	76.2	2.04	<0.05
ESA02D_82.0-84.0		14.8	5.1	770	8.1	63.7	0.002	0.01	0.06	4.6	<1	6.9	62.7	1.81	<0.05
ESA02D_84.0-86.0		11.6	3.2	680	14.2	148.0	0.002	<0.01	0.05	4.7	<1	8.2	60.6	1.79	<0.05
ESA02D_86.0-88.0		12.2	4.5	770	25.9	214	0.002	<0.01	0.05	4.6	<1	8.4	63.3	1.83	<0.05
ESA02D_88.0-90.0		14.4	14.8	1170	16.0	181.5	<0.002	<0.01	0.05	8.5	<1	13.6	60.2	1.68	<0.05
ESA02D_90.0-92.0		9.5	1.9	670	25.4	175.0	0.002	<0.01	0.06	3.6	<1	7.6	56.4	1.33	<0.05
ESA02D_92.0-94.0		9.0	1.6	550	26.1	200	<0.002	<0.01	<0.05	3.3	<1	7.6	56.7	1.53	<0.05
ESA02D_94.0-96.0		9.8	1.6	920	25.7	235	0.002	<0.01	0.05	3.7	<1	9.7	56.2	1.80	<0.05
ESA02D_96.0-98.0		9.7	2.0	1050	23.2	225	<0.002	<0.01	0.05	3.8	<1	7.9	50.3	1.27	<0.05
ESA02D_98.0-100.0		9.5	2.6	860	20.6	218	<0.002	0.01	0.05	4.1	<1	8.7	50.2	1.56	<0.05
ESA02D_002B															



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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
ESA02D_80.0-82.0		0.166	0.38	14.3	18	1.0	12.6	6	67.3	2.33	1.10	0.52	3.06	0.42	0.16
ESA02D_82.0-84.0		0.133	0.24	23.6	12	0.6	14.6	6	79.4	3.08	1.30	0.64	3.92	0.52	0.16
ESA02D_84.0-86.0		0.107	0.50	11.8	10	1.1	9.4	6	78.7	1.96	0.74	0.48	2.89	0.32	0.10
ESA02D_86.0-88.0		0.126	0.71	25.2	12	1.2	12.1	5	98.8	2.55	0.93	0.74	4.10	0.41	0.12
ESA02D_88.0-90.0		0.330	0.55	23.7	32	1.4	17.1	9	119.0	3.63	1.48	0.97	5.49	0.62	0.18
ESA02D_90.0-92.0		0.104	0.60	34.9	8	1.0	10.9	6	139.5	2.56	0.89	0.65	4.23	0.40	0.09
ESA02D_92.0-94.0		0.083	0.68	24.8	7	1.1	9.4	4	106.0	2.09	0.65	0.63	3.90	0.32	0.07
ESA02D_94.0-96.0		0.095	0.74	21.4	7	1.6	11.2	6	115.5	2.33	0.86	0.60	3.85	0.37	0.10
ESA02D_96.0-98.0		0.102	0.73	22.6	9	1.3	12.9	5	145.5	2.85	1.06	0.70	4.80	0.45	0.12
ESA02D_98.0-100.0		0.080	0.68	22.0	7	1.8	9.6	5	98.6	2.18	0.79	0.57	3.67	0.34	0.09
ESA02D_002B															



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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
ESA02D_80.0-82.0		7.25	4.36	0.47	0.17	1.11
ESA02D_82.0-84.0		7.46	4.99	0.60	0.19	1.19
ESA02D_84.0-86.0		7.37	4.14	0.40	0.11	0.67
ESA02D_86.0-88.0		13.30	7.02	0.55	0.14	0.82
ESA02D_88.0-90.0		14.25	8.33	0.76	0.21	1.27
ESA02D_90.0-92.0		13.60	6.99	0.55	0.11	0.65
ESA02D_92.0-94.0		12.85	6.54	0.48	0.09	0.48
ESA02D_94.0-96.0		12.75	6.64	0.50	0.12	0.68
ESA02D_96.0-98.0		15.10	7.91	0.63	0.15	0.84
ESA02D_98.0-100.0		12.15	6.23	0.49	0.11	0.62
ESA02D_002B						



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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. CRU-21 CRU-32 HOM-01 LEV-01 LOG-22 LOG-24 PUL-22 PUL-QC SPL-22Y SPLIT-Z WEI-21</p>