Round 17 – Final Report

Title Operator	Tivan Limited
Drill Contractor	Earth Ai (EAI)
Program Title	Diamond Drilling Program for Pb-Ag Target
Applicable Tenement	EL33099
Project Name	Sandover
Contact Details	Stephen Walsh, Chief Geologist Stephen.walsh@tivan.com.au
Date of Compilation	12 June 2025
Target Commodities	Lead Silver
Datum/Zone	GDA94/Zone 53
1:250 000 Map Sheet	Alcoota SF5310
1:100 000 Map Sheet	Bushy Park 5652 Alcoota 5752
Datum/Zone	GDA94 / Zone 53

1. Copyright Statement

Abstract

This report summarizes the results of a diamond drilling program co-funded by the NT Geophysics and Drilling Collaborations (GDC). The objective was to investigate a polymetallic Pb-Ag target identified through surface assays. Three diamond drill holes were completed for a total of 1396m, on EL33099 within the Arunta Region of the Aileron Province. Assay results do not support further mineralization.

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1. Introduction

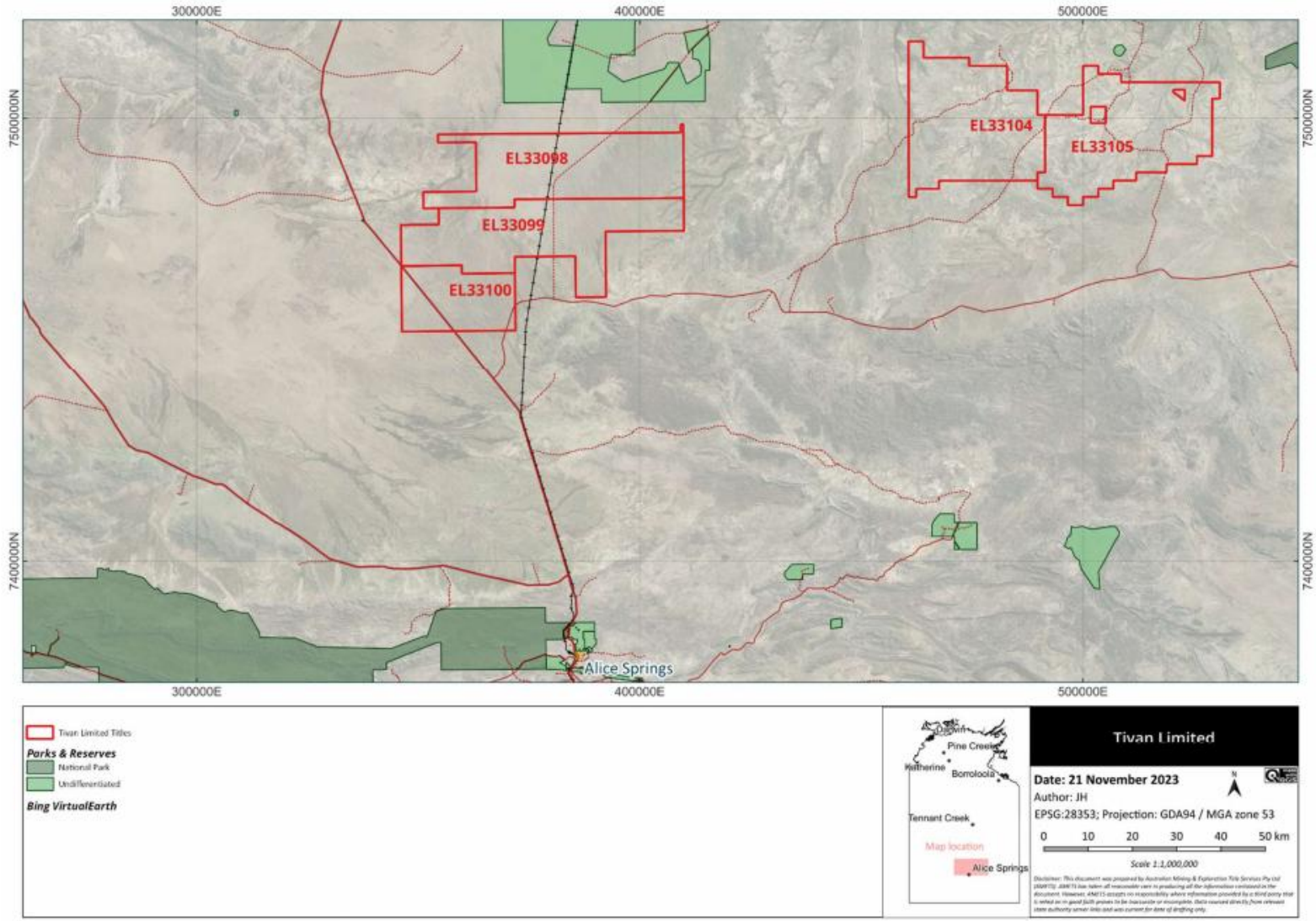
The drilling program was conducted within EL33099, located in the Arunta Region of the Aileron Province. This report describes exploration conducted on Exploration Licence (EL) 33099 (the title) as part of the co-funded drilling grant. Land tenure is held by Tivan Limited, and necessary approvals were secured before commencement.

1.1. Location, Physiography and Access

The title is located approximately 100km north of Alice Springs (see Figure 1). Access to the title from Alice Springs is via the Stuart and Sandover Highways on Aileron and Bushy Park pastoral properties, then via unsealed roads and station tracks. The Darwin-Alice Springs railway line roughly bisects the title from north to south (see Figure 1).

The title is relatively flat-lying, and covered by sand dunes and sparse grassland. The area is primarily used for grazing cattle.

Figure 1: Title Location Plan



2. Regional Context

The project area is located within the Arunta Region of the Aileron Province, consisting of mostly metamorphic and granitic rocks from the Palaeoproterozoic era, forming approximately 1800 million years ago. It is a part of the Archean-Palaeoproterozoic aged Arunta Block of the North Australian Craton. The Lander Rock Beds, which cover the majority of Aileron, comprise variably metamorphosed sedimentary rocks including greywackes, siltstones and shales, ranging from lower greenschist to granulite metamorphic facies. This part of the Arunta Region is also considered prospective for iron oxide copper-gold ("IOCG") type mineral deposits, though no substantial deposits of lead or silver have previously been documented.

The identified target area is a N-S trending quartzite ridge (1km by 500m) along the eastern flank of Mt Byrne. Several similar neighbouring quartzite outcrops in the exploration area have also been identified as potential future targets. The geological relationships of these units are unclear, and they likely represent outliers from the base of the younger Ngalia Basin, approximately 1000 million years old. Abundant hydrothermal quartz veining within the quartzite unit suggests hydrothermal activity in the area. The geology of the target area is still being explored, however, enrichments of phosphorus in the mineralised zone suggest secondary supergene enrichment of a potentially shallow subsurface deposit.

3. Previous Exploration

CRA Exploration (1971) conducted surface sampling and percussion drilling focused around the Mt Byrne area and other similar quartzite features in Aileron. Exploration efforts aimed to investigate soil geochemistry showing affinity with kimberlites. A drill program was conducted, however drillholes only intersected silicous rocks and assay results showed generally low base metal concentrations. The two drill holes in the target area (RD1 and RD2) were situated on the western flanks of Mt Byrne. Geological reconnaissance suggests that mineralisation is rather concentrated around the eastern flanks.

Tanami Exploration (2003-2005) conducted exploration across the project area, prospecting for gold, silver and base metals. Efforts included soil and rock chip sampling combined with geophysical surveys aimed to investigate the prospectivity of Tanami-style gold mineralisation, iron oxide copper-gold (IOCG) mineralisation and Tennant Creek-style copper-gold mineralisation.

4. Exploration Concept

The Mt Byrne polymetallic Au-Ag-Pb target is hosted within a brecciated quartzite that crosscuts, variably deformed basement rock of granitoid and metasedimentary assemblage. The brecciated quartzite of Mt Byrne is a N-S striking feature which extends for 1km. Smaller surface expressions of the breccia quartzite con7nue north extending for 4kms.

Mineralisation is polymetallic, containing Au, Ag and Pb. The near surface mineralisation is mostly expressed as Pb hosted within pyromorphite, although rare primary galena was identified in surface rock samples which hosts both Ag and Pb. The mineral assemblage suggests a classic hydrothermal vein or breccia-hosted deposit with subsequent supergene enrichment and oxidation, expressed as initial deposition of galena from hydrothermal fluids and later oxidation, weathering and introduction of phosphate, forming pyromorphite.

Hypogene mineralisation style is breccia matrix fill with sulphides galena and pyrite, commonly occurring within the matrix of the breccia. Mineralisation is broadly confined to the eastern flank of Mt Byrne with a NW-SE orientation, spanning approximately 1km. Pyromorphite commonly occurs in sets of 5cm wide veins along fracture planes within the quartzite. The bulk mineralisation at surface is the supergene enrichment zone which extends to the larger N-S striking quartzite ridge footprint of 4km

The petrogenesis of the mineralisation at the Mt Byrne target is still in hypothesis phase, however it shows evidence of metal enrichment processes, of migrating mineralized fluids up faults and/or conduits facilitated by the deformation of basement rocks. The Arunta province, in which the project is located has a complex geological history of multple phases of deformation and metamorphic events (Reno et al., 2021). These processes have remobilised and concentrated pre-existing base metal deposits along structural trends, often enhancing the economic potential, some examples of these deposits include the Woodcutters Zn-Pb-Ag Deposit, Home of Bullion Cu-Zn-Pb-AuDeposit and Oonagalabi Cu-Zn Prospect (Reno et al, 2021, Ahmed & Khan, 2013).

5. Details of the Collaborative Program

Table 1 Planned v Actual Activities

	Planned	**Actual**
Drilling	Two diamond drill holes planned at 600m	Three diamond drill holes 1. ESA02D 2. ESA03D 3. ESA12D
Drill Pad Locations	300m apart along the eastern flank of a quartzite ridge	See Figure 2 below
Collar Coordinates		See results section
Core Type	HQ & NQ	HQ & NQ
Dip/Azimuth		See results section
Sampling & Assay Methods	ICP-MS, fire assay, XRF	A 48 element suite was analysed using 4-acid digest and a ICP finish (ALS code: ME-MS61r). Additionally, samples were analysed for precious elements (ALS code: PGM-ICP23). Core was cut into quarter core and sample.
QA/QC Methods		Standards and blanks were used as standard practices by ALS Global following standard QAQC protocols. Additional blanks and standards were inserted at 50m intervals.

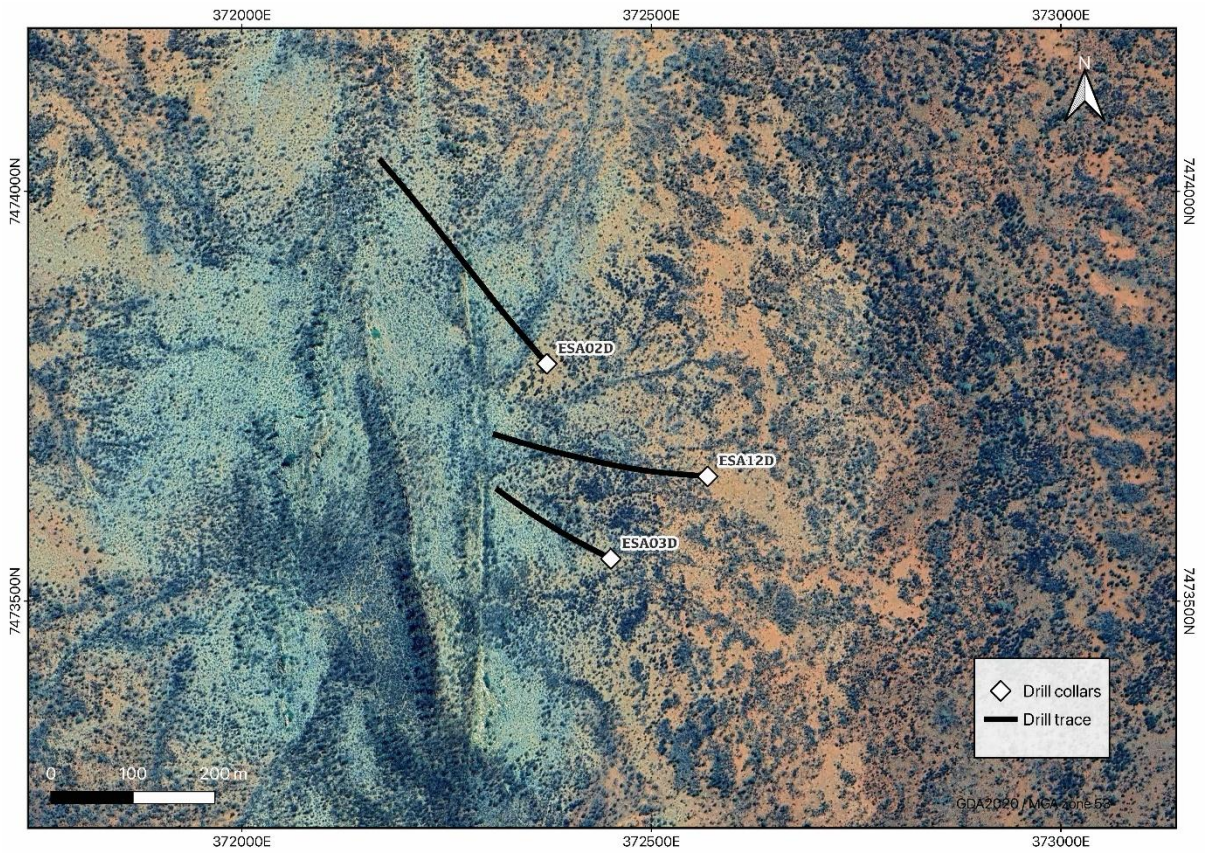


Figure 2: Map showing drill collars and drill trace for three diamond drill holes drilled at Aileron.

By drillhole

Table 2 Drillhole Information

Drillhole ID	**ESA02D**	**ESA03D**	**ESA12D**
Latitude	-22.838778	-22.840933	-22.84
Longitude	133.75617	133.756912	133.7580718
Easting	372372.467	372450.62	372568.799
Northing	7473789.54	7473551.59	7473652
Zone	53	53	53
Elevation	676	676	670
TD	526	349.1	521
Drill Code	DD	DD	DD
Dip	-50	-65	-60
Mag_Azimuth	324	301	279
True_Azimuth	319.4	296.4	274.4
Mag Declination	4.6	4.6	4.6

6. Results and Interpretations

Assay results relevant to the target mineralisation are provided below. Full assays are provided as an attachment to this document.

A summary for each hole is provided below. Figure 1 overleaf provides a map depicting the drill collars and drill trace for each of the holes; Figure 3 below provides a map depicting surface sampling results used by EARTH AI for drill targeting, as well as Pb assays by hole.

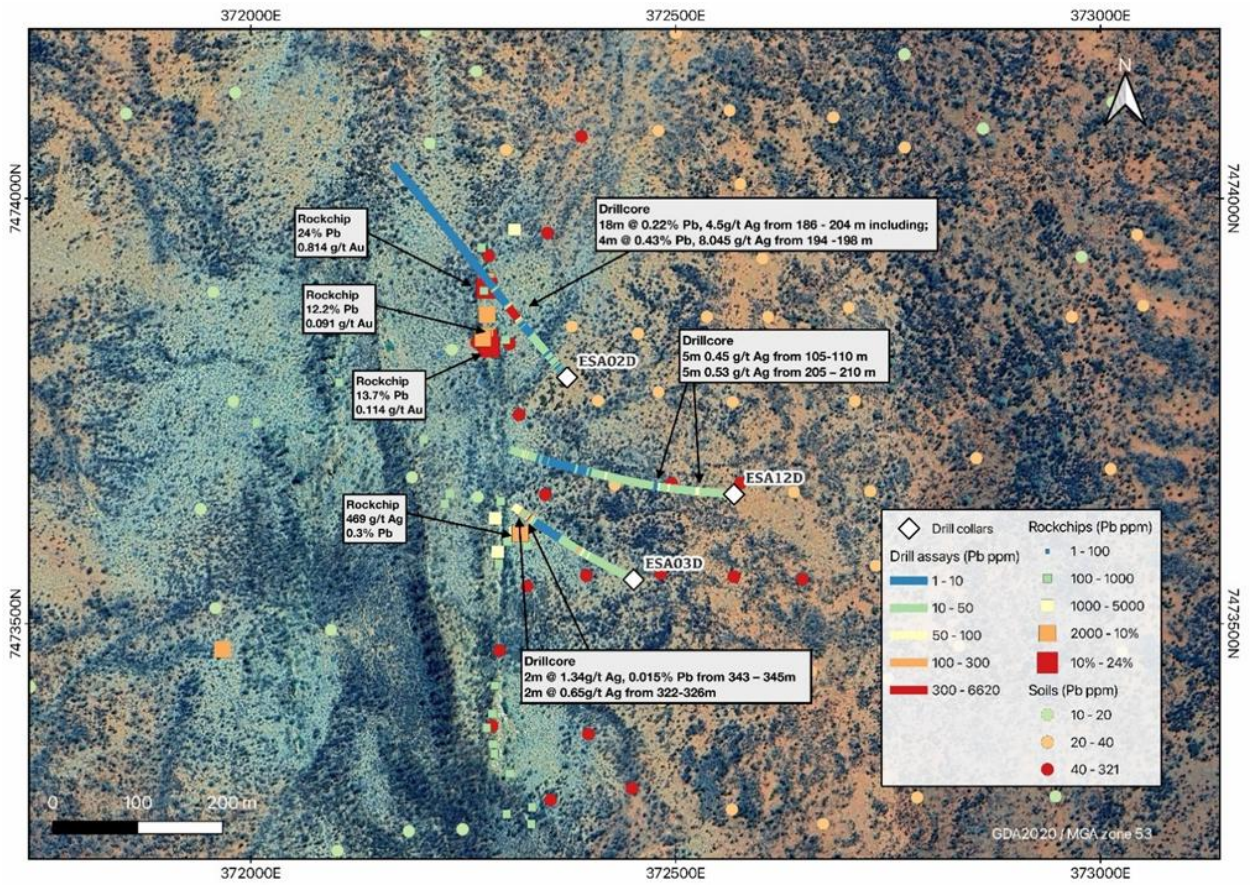


Figure 3 map showing drill traces with Pb assays and previous surface sampling used for drill targeting

Hole ESA02D

Hole ID	Easting	Northing	Azimuth	Dip	Depth (m)	Locality
ESA02D	372372.467	7473789.537	319.4	-50	526	Mt Byrne

Intersected multiple lithologies, including quartz breccia with stockwork veining, felsic gneiss, and pegmatitic zones, returning to quartz breccia at depth.

Lead mineralisation (pyromorphite) was observed at shallow and deep intervals, associated with brecciated zones and lacking primary sulphides, suggesting supergene enrichment on the system margins.

Drilling was terminated at 526m due to increasingly difficult ground conditions and reduced penetration rates.

SAMPLE	Ag (ppm)	Bi (ppm)	P (ppm)	Pb (ppm)	S (%)	Zn (ppm)
ESA02D_0.0-5.0	0.04	0.68	140	23.4	<0.01	15
ESA02D_5.0-10.0	0.01	1.67	260	10	<0.01	33
ESA02D_10.0-12.0	<0.01	1.47	350	25.1	<0.01	15
ESA02D_12.0-14.0	0.01	0.35	370	22.6	<0.01	8
ESA02D_14.0-16.0	0.02	0.76	350	28.9	<0.01	5
ESA02D_16.0-18.0	0.02	0.89	190	22.8	<0.01	8
ESA02D_18.0-20.0	<0.01	0.58	300	17.2	<0.01	19
ESA02D_20.0-22.0	0.02	0.19	310	3.9	<0.01	27
ESA02D_22.0-24.0	0.01	0.29	560	5.7	<0.01	40
ESA02D_24.0-26.0	0.02	0.44	530	6	<0.01	24
ESA02D_26.0-28.0	0.01	0.18	520	5.2	<0.01	11
ESA02D_28.0-30.0	0.03	0.21	520	19.7	<0.01	8
ESA02D_30.0-32.0	0.01	0.19	410	9.2	<0.01	19
ESA02D_32.0-34.0	0.08	0.14	340	6	<0.01	18
ESA02D_34.0-36.0	0.03	0.35	410	14.9	<0.01	9
ESA02D_36.0-38.0	0.02	0.61	440	10	<0.01	12
ESA02D_38.0-40.0	0.06	0.45	1630	20	<0.01	16
ESA02D_40.0-42.0	0.02	1.75	2000	5.9	0.21	32
ESA02D_42.0-44.0	0.03	1.44	970	8.4	0.03	36
ESA02D_44.0-46.0	0.02	0.64	900	6	0.05	38
ESA02D_46.0-48.0	0.01	0.23	560	11.2	<0.01	4
ESA02D_48.0-50.0	0.01	0.2	520	20	<0.01	6
ESA02D_50.0-52.0	0.01	0.53	380	7.5	<0.01	10
ESA02D_52.0-54.0	0.01	1.06	670	15.6	0.01	7
ESA02D_54.0-56.0	0.02	0.4	760	18.8	<0.01	8
ESA02D_56.0-58.0	0.02	0.42	570	26	<0.01	6
ESA02D_58.0-60.0	0.01	0.17	610	30.7	<0.01	7
ESA02D_60.0-62.0	0.01	0.32	710	25.1	0.01	8
ESA02D_62.0-64.0	0.02	0.45	760	15.4	0.01	6
ESA02D_64.0-65.0	0.01	0.3	530	11.4	0.01	6
ESA02D_65.0-66.0	0.01	0.47	320	3.3	0.08	6
ESA02D_66.0-68.0	0.01	0.4	550	8.2	<0.01	9
ESA02D_68.0-70.0	0.01	0.58	690	18.4	<0.01	15
ESA02D_70.0-72.0	0.01	0.41	690	26.5	<0.01	9
ESA02D_72.0-74.0	<0.01	0.79	750	19.8	<0.01	8
ESA02D_74.0-76.0	0.01	0.9	700	26.4	<0.01	10
ESA02D_76.0-78.0	0.02	0.78	880	23.5	<0.01	11
ESA02D_78.0-80.0	0.02	0.47	720	7.1	<0.01	6
ESA02D_80.0-82.0	<0.01	0.45	930	8.5	<0.01	6
ESA02D_82.0-84.0	0.01	0.27	770	8.1	0.01	6
ESA02D_84.0-86.0	<0.01	0.54	680	14.2	<0.01	6
ESA02D_86.0-88.0	<0.01	0.65	770	25.9	<0.01	5
ESA02D_88.0-90.0	<0.01	0.86	1170	16	<0.01	9
ESA02D_90.0-92.0	<0.01	0.42	670	25.4	<0.01	6
ESA02D_92.0-94.0	0.01	0.84	550	26.1	<0.01	4
ESA02D_94.0-96.0	<0.01	1.03	920	25.7	<0.01	6
ESA02D_96.0-98.0	0.02	0.69	1050	23.2	<0.01	5

ESA02D_98.0-100.0	0.01	1.14	860	20.6	0.01	5
ESA02D_100.0-102.0	0.02	1.02	890	20.5	0.05	12
ESA02D_102.0-104.0	0.01	0.86	750	21.8	0.01	7
ESA02D_104.0-106.0	0.01	0.48	620	25.8	<0.01	7
ESA02D_106.0-108.0	0.01	0.47	730	17.8	0.01	8
ESA02D_108.0-110.0	0.01	0.61	650	15	<0.01	6
ESA02D_110.0-112.0	0.02	0.87	640	16.6	<0.01	6
ESA02D_112.0-114.0	0.01	1.54	660	11.8	<0.01	6
ESA02D_114.0-116.0	0.01	0.71	620	14.6	<0.01	5
ESA02D_116.0-118.0	0.02	0.55	740	16.6	<0.01	5
ESA02D_118.0-120.0	0.01	0.63	780	19.6	<0.01	6
ESA02D_120.0-122.0	0.01	0.7	820	14.6	<0.01	5
ESA02D_122.0-124.0	0.02	0.32	590	14.6	<0.01	11
ESA02D_124.0-126.0	<0.01	0.27	640	12.2	<0.01	7
ESA02D_126.0-128.0	0.01	0.47	570	12	0.01	4
ESA02D_128.0-130.0	0.02	0.45	640	21.3	<0.01	5
ESA02D_130.0-132.0	0.02	0.27	850	18.4	<0.01	8
ESA02D_132.0-134.0	0.02	0.12	780	11.7	<0.01	5
ESA02D_134.0-136.0	<0.01	0.03	780	5.8	<0.01	2
ESA02D_136.0-138.0	0.01	0.02	650	4.9	<0.01	2
ESA02D_138.0-140.0	0.01	0.03	1000	4.9	<0.01	<2
ESA02D_140.0-142.0	0.01	0.02	530	4.8	<0.01	2
ESA02D_142.0-144.0	<0.01	0.05	990	5.9	<0.01	8
ESA02D_144.0-146.0	0.01	0.06	960	7.3	<0.01	11
ESA02D_146.0-148.0	0.01	0.07	1020	7.1	<0.01	26
ESA02D_148.0-150.0	<0.01	0.1	1430	8.5	<0.01	21
ESA02D_150.0-152.0	<0.01	0.14	780	4.3	<0.01	31
ESA02D_152.0-154.0	0.07	0.1	830	4.6	<0.01	35
ESA02D_154.0-156.0	0.11	0.04	910	8.1	<0.01	61
ESA02D_156.0-158.0	0.18	0.07	630	7.3	<0.01	69
ESA02D_158.0-160.0	0.04	0.07	1040	13.4	<0.01	73
ESA02D_160.0-162.0	0.16	0.08	940	8.2	<0.01	41
ESA02D_162.0-164.0	0.01	0.07	720	4.6	<0.01	40
ESA02D_164.0-166.0	0.01	0.08	670	4.1	<0.01	48
ESA02D_166.0-168.0	<0.01	0.12	430	8.4	<0.01	182
ESA02D_168.0-169.0	0.01	0.25	350	10.3	<0.01	423
ESA02D_169.0-170.0	0.01	0.13	510	15.8	<0.01	492
ESA02D_170.0-172.0	0.02	0.19	460	44.8	<0.01	315
ESA02D_172.0-174.0	0.03	0.16	340	166	<0.01	89
ESA02D_174.0-176.0	0.04	0.06	30	80.4	<0.01	6
ESA02D_176.0-178.0	0.16	0.15	20	99.8	<0.01	9
ESA02D_178.0-180.0	0.39	0.4	100	356	<0.01	33
ESA02D_180.0-182.0	0.2	0.37	80	426	<0.01	70
ESA02D_182.0-184.0	0.63	0.78	170	664	<0.01	38
ESA02D_184.0-186.0	0.92	0.53	110	418	<0.01	15
ESA02D_186.0-188.0	0.95	1.1	220	838	<0.01	34
ESA02D_188.0-190.0	1.19	1.82	410	1585	0.01	50
ESA02D_190.0-192.0	2.83	1.79	260	1085	0.01	56
ESA02D_192.0-194.0	5	21.5	800	3010	0.01	134
ESA02D_194.0-195.0	7.55	82.9	970	3470	0.01	130
ESA02D_195.0-196.0	10.95	139.5	1230	6620	<0.01	70
ESA02D_196.0-197.0	7.87	82.6	1110	4800	0.01	79
ESA02D_197.0-198.0	5.81	17.6	750	2620	0.01	63
ESA02D_198.0-199.0	3.59	11.25	300	1070	0.01	37
ESA02D_199.0-200.0	4.95	38.3	430	1535	<0.01	108
ESA02D_200.0-201.0	4.13	29.8	390	1425	0.01	304

ESA02D_201.0-202.0	3.2	17.95	180	579	<0.01	263
ESA02D_202.0-203.0	4.14	26.2	490	1485	<0.01	588
ESA02D_203.0-204.0	1.11	4.86	270	813	<0.01	577
ESA02D_204.0-205.0	1.24	2.69	240	641	<0.01	608
ESA02D_205.0-206.0	1.55	4.38	110	312	<0.01	547
ESA02D_206.0-207.0	2.51	8.09	190	340	<0.01	358
ESA02D_207.0-208.0	0.87	1.98	180	236	<0.01	249
ESA02D_208.0-209.0	0.14	0.18	230	54.6	<0.01	1085
ESA02D_209.0-210.0	0.05	0.2	400	50.3	<0.01	327
ESA02D_210.0-212.0	0.03	0.03	1030	29.1	<0.01	140
ESA02D_212.0-214.0	0.02	0.05	890	18.1	<0.01	114
ESA02D_214.0-216.0	0.01	0.02	110	7.5	<0.01	52
ESA02D_216.0-218.0	0.01	0.01	150	5.7	<0.01	50
ESA02D_218.0-220.0	0.01	0.01	190	3.8	<0.01	19
ESA02D_220.0-225.0	0.01	0.01	370	3.6	<0.01	18
ESA02D_225.0-230.0	0.01	0.01	220	1.9	<0.01	12
ESA02D_230.0-235.0	0.01	0.01	220	2.3	<0.01	8
ESA02D_235.0-240.0	0.01	0.01	300	2.7	<0.01	9
ESA02D_240.0-245.0	0.01	0.01	190	1.5	<0.01	8
ESA02D_245.0-250.0	0.02	0.01	200	3.5	<0.01	21
ESA02D_250.0-255.0	0.13	0.02	330	16.6	0.01	29
ESA02D_255.0-260.0	0.02	0.03	610	3	<0.01	8
ESA02D_260.0-265.0	0.01	0.01	420	2.7	<0.01	6
ESA02D_265.0-270.0	<0.01	0.02	530	3.7	<0.01	7
ESA02D_270.0-275.0	<0.01	0.03	670	3.6	<0.01	5
ESA02D_275.0-280.0	<0.01	0.04	640	3.3	<0.01	8
ESA02D_280.0-285.0	0.06	0.07	380	7.6	<0.01	6
ESA02D_285.0-290.0	<0.01	0.06	540	3.3	<0.01	6
ESA02D_290.0-295.0	<0.01	0.04	500	3.6	<0.01	7
ESA02D_295.0-300.0	<0.01	0.07	630	5.6	<0.01	6
ESA02D_300.0-305.0	0.04	0.06	560	7.4	<0.01	10
ESA02D_305.0-310.0	0.01	0.08	630	7.4	<0.01	4
ESA02D_310.0-315.0	0.01	0.03	470	5.1	<0.01	4
ESA02D_315.0-320.0	0.01	0.05	560	4.7	<0.01	4
ESA02D_320.0-325.0	0.01	0.12	510	4.4	<0.01	7
ESA02D_325.0-330.0	0.01	0.07	390	3.7	<0.01	7
ESA02D_330.0-335.0	0.01	0.07	540	4.7	<0.01	3
ESA02D_335.0-340.0	0.01	0.03	620	2.9	<0.01	5
ESA02D_340.0-342.0	0.01	0.02	130	1.5	<0.01	5
ESA02D_342.0-344.0	0.01	0.02	610	2.5	<0.01	4
ESA02D_344.0-346.0	0.02	0.05	570	4.2	<0.01	5
ESA02D_346.0-348.0	<0.01	0.03	540	2.8	<0.01	5
ESA02D_348.0-350.0	<0.01	0.03	610	2.6	<0.01	5
ESA02D_350.0-352.0	0.01	0.06	640	4.4	<0.01	5
ESA02D_352.0-353.0	0.01	0.02	470	3.7	<0.01	7
ESA02D_353.0-354.0	0.01	0.08	610	5	<0.01	4
ESA02D_354.0-355.0	0.01	0.05	630	4.6	<0.01	3
ESA02D_355.0-360.0	0.01	0.04	590	4	<0.01	6
ESA02D_360.0-365.0	0.01	0.02	440	3.3	<0.01	6
ESA02D_365.0-370.0	0.01	0.04	460	6.1	<0.01	6
ESA02D_370.0-375.0	0.02	0.07	800	8.5	<0.01	7
ESA02D_375.0-380.0	0.01	0.04	680	5.5	<0.01	4
ESA02D_380.0-385.0	0.01	0.04	970	7.8	<0.01	5
ESA02D_385.0-390.0	<0.01	0.06	920	6.7	<0.01	6
ESA02D_390.0-395.0	0.01	0.04	650	4.8	<0.01	5
ESA02D_395.0-400.0	0.01	0.04	990	6.9	<0.01	6

ESA02D_400.0-405.0	0.01	0.03	1110	7.4	<0.01	8
ESA02D_405.0-410.0	0.03	0.03	830	6.4	<0.01	8
ESA02D_410.0-415.0	0.01	0.08	910	4.6	<0.01	5
ESA02D_415.0-420.0	0.01	0.05	680	8.9	<0.01	6
ESA02D_420.0-425.0	0.01	0.04	680	6.5	<0.01	8
ESA02D_425.0-430.0	0.01	0.08	670	9	<0.01	6
ESA02D_430.0-435.0	<0.01	0.04	610	7.2	<0.01	6
ESA02D_435.0-440.0	<0.01	0.04	760	7.3	<0.01	5
ESA02D_440.0-445.0	<0.01	0.04	420	7.4	<0.01	9
ESA02D_445.0-450.0	<0.01	0.05	430	7.2	<0.01	7
ESA02D_450.0-455.0	<0.01	0.03	700	5.5	<0.01	8
ESA02D_455.0-460.0	<0.01	0.05	710	5.1	<0.01	6
ESA02D_460.0-465.0	<0.01	0.1	640	4.4	<0.01	6
ESA02D_465.0-470.0	<0.01	0.04	620	5.3	<0.01	6
ESA02D_470.0-475.0	<0.01	0.09	590	4.9	<0.01	5
ESA02D_475.0-480.0	<0.01	0.03	770	5.6	<0.01	9
ESA02D_480.0-485.0	<0.01	0.04	560	4.7	<0.01	6
ESA02D_485.0-490.0	<0.01	0.04	590	4.7	<0.01	8
ESA02D_490.0-495.0	0.01	0.04	490	3.9	<0.01	5
ESA02D_495.0-500.0	<0.01	0.03	750	5.2	<0.01	8
ESA02D_500.0-505.0	0.02	0.03	150	3.8	<0.01	9
ESA02D_505.0-510.0	0.01	0.02	150	8.5	<0.01	14
ESA02D_510.0-515.0	0.01	0.01	180	6.4	<0.01	8
ESA02D_515.0-520.0	0.01	0.01	160	5.7	<0.01	9
ESA02D_520.0-524.0	<0.01	0.01	300	7.8	<0.01	16
ESA02D_524.0-525.0	<0.01	0.01	330	5.5	<0.01	11
ESA02D_525.0-526.0	0.01	0.01	200	1.8	<0.01	<2

Hole ESA03D

Hole ID	Easting	Northing	Azimuth	Dip	Depth (m)	Locality
ESA03D	372450.62	7473551.586	296.4	-65	349.1	Mt Byrne

ESA03D intersected foliated leucogranite, granitic gneiss and metasediments, with increasing chlorite, epidote and quartz veining intensity downhole, terminating in a faulted quartz breccia with stockwork veining, oxides and iron hydroxides.

Pb-Ag enrichment was observed at shallow and deeper intervals with pyromorphite present as fissure coatings and no primary sulphides identified.

Hole was terminated at 349.1m due to complete loss of circulation in a fractured zone, preventing effective drilling.

SAMPLE	Ag (ppm)	Bi (ppm)	P (ppm)	Pb (ppm)	S (%)	Zn (ppm)
ESA03D_0.0-5.0	0.09	0.41	730	69.1	<0.01	140
ESA03D_5.0-10.0	0.04	0.44	820	69.2	<0.01	130
ESA03D_10.0-15.0	0.04	0.12	790	127	<0.01	146

ESA03D_15.0-20.0	0.11	0.18	500	131.5	<0.01	200
ESA03D_20.0-25.0	0.06	0.18	660	63.4	<0.01	147
ESA03D_25.0-30.0	0.04	1.05	720	33.9	<0.01	194
ESA03D_30.0-32.0	0.04	0.39	770	40.9	<0.01	83
ESA03D_32.0-34.0	0.01	0.38	430	19.1	<0.01	39
ESA03D_34.0-36.0	0.01	1.07	770	5.1	<0.01	63
ESA03D_36.0-38.0	0.02	1.03	830	13.9	<0.01	69
ESA03D_38.0-40.0	0.06	1.42	350	13.6	<0.01	65
ESA03D_40.0-42.0	0.04	0.67	430	18.4	<0.01	26
ESA03D_42.0-47.0	0.03	1	740	36.2	<0.01	22
ESA03D_47.0-52.0	0.03	0.51	530	28.5	<0.01	22
ESA03D_52.0-57.0	0.06	1.3	330	42	<0.01	19
ESA03D_57.0-62.0	0.03	0.35	480	34.1	<0.01	23
ESA03D_62.0-64.0	<0.01	0.23	250	20.2	<0.01	33
ESA03D_64.0-66.0	0.35	1.96	550	14.7	0.02	116
ESA03D_66.0-68.0	0.11	2.43	800	14.2	0.01	185
ESA03D_68.0-73.0	0.06	0.51	440	44.3	<0.01	64
ESA03D_73.0-78.0	0.04	0.61	450	34.1	<0.01	19
ESA03D_78.0-83.0	0.02	0.92	660	25	<0.01	16
ESA03D_83.0-85.0	0.03	0.4	350	35.4	0.01	14
ESA03D_85.0-87.0	0.04	0.56	310	34	0.01	15
ESA03D_87.0-92.0	0.03	1.58	340	47.9	<0.01	21
ESA03D_92.0-97.0	0.04	0.6	350	37.9	0.01	20
ESA03D_97.0-102.0	0.15	1.12	330	41.9	0.01	45
ESA03D_102.0-107.0	0.05	1.49	420	29.2	0.04	27
ESA03D_107.0-112.0	<0.01	0.55	410	19.4	0.01	22
ESA03D_112.0-117.0	<0.01	0.38	410	15.2	<0.01	24
ESA03D_117.0-122.0	0.03	0.52	390	16.2	<0.01	28
ESA03D_122.0-127.0	0.02	0.4	620	31.2	0.01	26
ESA03D_127.0-132.0	0.01	0.45	690	31.8	<0.01	22
ESA03D_132.0-137.0	<0.01	0.49	490	31.3	0.01	27
ESA03D_137.0-142.0	0.01	0.48	490	23.4	0.01	18
ESA03D_142.0-147.0	0.04	1.21	350	32.3	0.01	39
ESA03D_147.0-152.0	0.08	1.13	550	51.7	0.01	18
ESA03D_152.0-157.0	0.07	1.01	550	41.4	0.01	18
ESA03D_157.0-162.0	0.02	0.31	580	32	<0.01	19
ESA03D_162.0-164.0	0.08	0.23	430	49.8	0.01	18
ESA03D_164.0-166.0	0.06	0.22	540	60.9	0.03	21
ESA03D_166.0-168.0	0.04	0.21	790	63.7	0.01	52
ESA03D_168.0-170.0	0.06	0.45	670	82.5	0.02	70
ESA03D_170.0-172.0	<0.01	0.24	620	37	<0.01	29
ESA03D_172.0-174.0	0.02	0.46	850	35.3	0.01	18
ESA03D_174.0-176.0	0.07	1.89	640	33.6	0.03	25
ESA03D_176.0-178.0	0.11	0.54	620	180	0.07	202
ESA03D_178.0-183.0	0.06	2.44	380	182	0.03	107
ESA03D_183.0-188.0	0.03	0.47	890	33.2	0.02	38
ESA03D_188.0-193.0	0.01	0.18	720	23.9	0.01	9
ESA03D_193.0-198.0	0.04	0.93	760	33.1	0.01	12
ESA03D_198.0-203.0	0.02	0.51	720	35.9	0.01	30
ESA03D_203.0-208.0	0.02	0.36	720	20	0.02	22
ESA03D_208.0-213.0	<0.01	0.34	680	15.9	0.01	9
ESA03D_213.0-218.0	<0.01	0.63	730	26.3	0.01	8
ESA03D_218.0-223.0	0.01	0.65	740	17.6	0.01	7
ESA03D_223.0-228.0	0.02	3.11	820	28.5	0.03	16
ESA03D_228.0-233.0	0.01	1.66	880	17.8	0.04	13
ESA03D_233.0-238.0	0.01	0.16	860	8.1	0.02	6

ESA03D_238.0-243.0	<0.01	0.09	800	6.8	0.01	2
ESA03D_243.0-248.0	<0.01	0.08	1040	7.7	0.01	3
ESA03D_248.0-253.0	<0.01	0.07	1070	4.4	0.02	13
ESA03D_253.0-255.0	<0.01	0.04	1550	6.2	0.02	4
ESA03D_255.0-256.0	<0.01	0.06	1290	7.4	0.04	2
ESA03D_256.0-257.0	<0.01	0.02	900	6	0.01	<2
ESA03D_257.0-258.0	<0.01	0.02	690	4.2	0.01	<2
ESA03D_258.0-259.0	0.05	0.02	690	5.9	0.01	<2
ESA03D_259.0-260.0	0.04	0.04	620	5.2	<0.01	<2
ESA03D_260.0-265.0	0.03	0.03	590	7.3	0.01	2
ESA03D_265.0-270.0	<0.01	0.05	720	7.1	0.02	2
ESA03D_270.0-272.0	<0.01	0.02	730	6.1	0.01	<2
ESA03D_272.0-274.0	<0.01	0.02	780	5.6	0.02	<2
ESA03D_274.0-276.0	0.01	0.08	1170	4.9	0.03	<2
ESA03D_276.0-278.0	<0.01	0.03	1000	6.3	0.02	<2
ESA03D_278.0-280.0	<0.01	0.02	840	5.1	0.02	<2
ESA03D_280.0-282.0	<0.01	0.04	1240	3.9	0.03	3
ESA03D_282.0-284.0	<0.01	0.05	810	4.9	0.04	<2
ESA03D_284.0-285.0	0.01	0.01	630	2.9	0.02	<2
ESA03D_285.0-286.0	<0.01	0.02	490	2.6	0.02	2
ESA03D_286.0-287.0	0.01	0.07	230	1.8	0.02	4
ESA03D_287.0-288.0	0.01	0.02	260	1.6	0.03	2
ESA03D_288.0-289.0	0.01	0.02	460	3.1	0.02	<2
ESA03D_289.0-290.0	0.01	0.01	480	2.3	0.02	<2
ESA03D_290.0-291.0	<0.01	0.02	260	1.5	0.02	<2
ESA03D_291.0-292.0	0.02	0.02	190	1.3	0.01	<2
ESA03D_292.0-293.0	0.01	0.04	210	2.1	0.01	<2
ESA03D_293.0-294.0	0.05	0.03	970	2.5	0.02	2
ESA03D_294.0-295.0	0.02	0.02	360	1.6	0.01	<2
ESA03D_295.0-296.0	0.01	0.02	150	1.2	0.02	<2
ESA03D_296.0-297.0	0.01	0.02	130	1.3	0.01	<2
ESA03D_297.0-298.0	0.01	0.02	150	1.3	0.01	<2
ESA03D_298.0-299.0	0.01	0.02	440	1.6	0.03	3
ESA03D_299.0-300.0	0.01	0.01	160	1.1	0.01	2
ESA03D_300.0-302.0	0.02	0.02	140	2.7	0.02	12
ESA03D_302.0-304.0	0.01	0.03	110	1.5	0.02	11
ESA03D_304.0-305.0	0.01	0.74	210	3.1	0.03	54
ESA03D_305.0-306.0	0.03	0.36	320	18.9	0.02	82
ESA03D_306.0-308.0	0.05	0.03	240	11.4	<0.01	135
ESA03D_308.0-310.0	0.13	0.55	200	25.9	<0.01	159
ESA03D_310.0-312.0	0.04	1.11	270	29.4	<0.01	314
ESA03D_312.0-314.0	0.04	0.03	200	19.8	<0.01	434
ESA03D_314.0-316.0	0.15	0.3	300	54.7	0.01	652
ESA03D_316.0-318.0	0.21	0.32	270	47.4	<0.01	421
ESA03D_318.0-320.0	0.08	0.12	60	40.5	<0.01	125
ESA03D_320.0-321.0	0.04	0.14	100	123	<0.01	172
ESA03D_321.0-322.0	0.21	0.33	130	386	<0.01	142
ESA03D_322.0-324.0	0.72	1.56	140	405	<0.01	129
ESA03D_324.0-326.0	0.67	1.24	20	84.7	<0.01	24
ESA03D_326.0-327.0	0.25	0.55	50	140	<0.01	23
ESA03D_327.0-328.0	0.11	0.29	30	80.7	<0.01	15
ESA03D_328.0-329.0	0.06	0.44	40	102	<0.01	74
ESA03D_329.0-330.0	0.03	0.25	20	32.5	<0.01	98
ESA03D_330.0-331.0	0.05	0.41	40	55.2	<0.01	115
ESA03D_331.0-332.0	0.02	0.06	10	8.1	<0.01	35
ESA03D_332.0-333.0	0.04	0.13	20	18.8	<0.01	138

ESA03D_333.0-334.0	0.03	0.19	40	16.7	0.01	78
ESA03D_334.0-336.0	0.06	0.87	40	17	0.01	52
ESA03D_336.0-338.0	0.25	8.54	60	35	0.01	41
ESA03D_338.0-340.0	0.07	0.55	50	11.2	<0.01	20
ESA03D_340.0-341.0	0.52	3.06	110	28.7	0.01	285
ESA03D_341.0-342.0	0.14	2.38	90	25.9	<0.01	45
ESA03D_342.0-343.0	0.16	2.57	60	24.5	<0.01	29
ESA03D_343.0-344.0	1.42	16.15	150	185	0.02	140
ESA03D_344.0-345.0	1.26	3.54	160	114.5	0.01	332
ESA03D_345.0-346.0	0.43	1.06	60	160	<0.01	18
ESA03D_346.0-347.0	0.36	0.93	40	121.5	<0.01	9
ESA03D_347.0-348.0	0.38	0.78	40	124	<0.01	20
ESA03D_348.0-349.1	0.51	0.94	30	86.3	0.01	25

Hole ESA12D

Hole ID	Easting	Northing	Azimuth	Dip	Depth (m)	Locality
ESA12D	372568.799	7473652.111	274.4	-60	521	Mt Byrne

ESA12D intersected micaceous leucogranite with quartz-feldspar pegmatites, transitioning into altered gneiss with increasing epidote, iron staining, and quartz veining intensity, culminating in a moderately brecciated quartz zone at end-of-hole.

Lead mineralisation was observed as pyromorphite within fractures and thin quartz veins, with no visible primary sulphides.

The hole was terminated at 521.0m due to extensive water loss within intensely fractured rock, which significantly impacted drilling efficiency.

SAMPLE	Ag (ppm)	Bi (ppm)	P (ppm)	Pb (ppm)	S (%)	Zn (ppm)
ESA012D_0.0-5.0	0.95	0.85	580	48.4	<0.01	43
ESA012D_5.0-10.0	0.04	0.22	580	41.7	<0.01	36
ESA012D_10.0-15.0	0.05	0.42	430	38.8	<0.01	37
ESA012D_15.0-20.0	0.05	0.85	650	33.8	<0.01	23
ESA012D_20.0-25.0	0.08	0.73	730	35.2	<0.01	22
ESA012D_25.0-30.0	0.06	0.43	800	36.5	<0.01	21
ESA012D_30.0-35.0	0.05	0.29	580	31.6	<0.01	14
ESA012D_35.0-40.0	0.11	1.28	720	44.5	<0.01	26
ESA012D_40.0-45.0	0.04	0.34	840	38.8	<0.01	24
ESA012D_45.0-50.0	0.04	1.2	800	37.1	<0.01	29
ESA012D_50.0-55.0	0.04	0.36	750	37.5	<0.01	26
ESA012D_55.0-60.0	0.01	0.14	750	33	<0.01	14
ESA012D_60.0-65.0	0.02	0.3	820	39.1	<0.01	22
ESA012D_65.0-70.0	<0.01	0.12	820	31.4	<0.01	12
ESA012D_70.0-75.0	<0.01	0.16	770	24.7	<0.01	11
ESA012D_75.0-80.0	0.01	0.21	870	15.4	<0.01	11
ESA012D_80.0-85.0	<0.01	0.99	780	30.2	<0.01	11
ESA012D_85.0-90.0	0.02	1.4	790	31.2	<0.01	11
ESA012D_90.0-95.0	0.01	0.19	720	24.6	0.01	11
ESA012D_95.0-100.0	0.05	0.24	520	27.3	0.02	174

ESA012D_100.0-105.0	0.05	0.27	870	40	0.02	33
ESA012D_105.0-110.0	0.45	1.06	790	95.1	0.02	32
ESA012D_110.0-115.0	0.1	0.65	730	53	0.01	26
ESA012D_115.0-120.0	0.02	0.48	710	28.8	0.01	11
ESA012D_120.0-125.0	0.02	0.24	730	21.6	<0.01	9
ESA012D_125.0-130.0	0.02	0.21	900	26.1	<0.01	11
ESA012D_130.0-135.0	0.01	0.23	720	23.6	0.01	10
ESA012D_135.0-140.0	0.01	0.2	900	28.8	0.01	13
ESA012D_140.0-145.0	0.01	0.18	940	27.5	0.01	7
ESA012D_145.0-150.0	<0.01	0.22	730	32.7	0.01	10
ESA012D_150.0-155.0	0.02	0.33	810	35.9	<0.01	13
ESA012D_155.0-160.0	0.02	0.57	930	43.2	0.01	17
ESA012D_160.0-165.0	<0.01	0.28	990	37.4	<0.01	12
ESA012D_165.0-170.0	<0.01	0.16	800	42.8	0.01	14
ESA012D_170.0-175.0	<0.01	0.09	840	29.9	<0.01	11
ESA012D_175.0-180.0	<0.01	0.09	720	45.6	<0.01	17
ESA012D_180.0-185.0	0.04	0.3	750	63.9	0.01	20
ESA012D_185.0-190.0	0.01	0.13	1250	31.5	0.01	17
ESA012D_190.0-195.0	<0.01	0.13	810	26.6	<0.01	12
ESA012D_195.0-200.0	0.08	0.86	510	20.3	0.01	12
ESA012D_200.0-205.0	0.07	0.61	630	31.2	0.02	42
ESA012D_205.0-210.0	0.53	11.85	1550	95.1	0.05	50
ESA012D_210.0-215.0	0.1	16.7	1220	9.4	0.23	111
ESA012D_215.0-220.0	0.04	0.68	910	9.5	0.32	68
ESA012D_220.0-225.0	0.11	3.49	640	25.4	0.01	21
ESA012D_225.0-230.0	0.03	0.99	420	10.2	0.01	34
ESA012D_230.0-235.0	0.03	0.82	540	20.2	0.01	12
ESA012D_235.0-240.0	0.03	1.63	520	16.6	0.01	20
ESA012D_240.0-245.0	0.05	1.15	450	22	0.01	12
ESA012D_245.0-250.0	0.07	1.32	610	26.4	<0.01	17
ESA012D_250.0-255.0	0.04	0.65	500	27.1	0.01	20
ESA012D_255.0-260.0	0.01	0.24	820	23.8	<0.01	12
ESA012D_260.0-265.0	<0.01	0.08	780	23	<0.01	13
ESA012D_265.0-270.0	0.03	0.17	690	34.5	0.01	23
ESA012D_270.0-275.0	0.02	0.05	750	28.4	0.02	13
ESA012D_275.0-280.0	0.02	0.42	620	27.9	0.03	13
ESA012D_280.0-285.0	0.02	0.41	790	32.9	0.01	17
ESA012D_285.0-290.0	0.02	0.39	720	28	0.01	17
ESA012D_290.0-295.0	0.02	0.51	770	11	0.01	14
ESA012D_295.0-300.0	0.03	0.42	520	15.5	0.01	17
ESA012D_300.0-305.0	0.03	1.76	500	17.6	0.02	21
ESA012D_305.0-310.0	0.03	0.17	750	19.8	<0.01	22
ESA012D_310.0-315.0	0.13	0.28	760	16.8	0.01	33
ESA012D_315.0-320.0	<0.01	0.31	1060	29.1	0.01	13
ESA012D_320.0-325.0	0.02	0.34	750	24.5	0.01	30
ESA012D_325.0-330.0	0.02	0.35	790	35.3	0.01	78
ESA012D_330.0-335.0	0.1	0.43	800	59	0.01	24
ESA012D_335.0-340.0	0.03	0.16	670	19.1	0.01	6
ESA012D_340.0-345.0	0.05	0.49	890	20.3	0.04	7
ESA012D_345.0-350.0	0.01	0.41	1110	17.6	0.03	18
ESA012D_350.0-355.0	0.03	0.31	1140	11.7	0.02	26
ESA012D_355.0-360.0	0.03	0.4	930	31.7	0.03	6
ESA012D_360.0-365.0	0.03	0.12	760	15.2	0.02	5
ESA012D_365.0-370.0	<0.01	0.23	920	9.1	0.01	<2
ESA012D_370.0-375.0	0.04	0.26	1010	10.1	0.02	15
ESA012D_375.0-380.0	0.01	0.62	970	7.7	0.02	7

ESA012D_380.0-385.0	0.01	0.31	1180	8.1	0.02	3
ESA012D_385.0-390.0	<0.01	0.19	1170	7.1	0.02	2
ESA012D_390.0-395.0	0.01	0.16	1090	7.8	0.03	2
ESA012D_395.0-400.0	0.02	0.17	620	10.7	0.04	11
ESA012D_400.0-405.0	0.03	0.08	830	7.2	0.03	5
ESA012D_405.0-410.0	0.03	0.59	830	5.9	0.01	3
ESA012D_410.0-415.0	0.07	0.08	1090	5	0.03	3
ESA012D_415.0-420.0	<0.01	0.12	1110	6.4	0.02	2
ESA012D_420.0-422.0	0.08	0.09	1130	4.9	0.02	5
ESA012D_422.0-424.0	0.02	0.1	800	4.6	0.02	2
ESA012D_424.0-426.0	0.12	0.06	810	4.4	0.02	8
ESA012D_426.0-428.0	<0.01	0.05	750	6.8	0.02	<2
ESA012D_428.0-430.0	0.01	0.14	770	5	0.16	4
ESA012D_430.0-435.0	<0.01	0.13	1060	8.9	0.12	10
ESA012D_435.0-440.0	0.02	0.34	790	6.6	0.03	12
ESA012D_440.0-445.0	<0.01	0.09	590	4	0.02	7
ESA012D_445.0-450.0	0.01	0.06	400	5.1	<0.01	2
ESA012D_450.0-452.0	0.01	0.07	520	4.4	0.05	6
ESA012D_452.0-454.0	0.02	0.22	600	4.2	0.05	8
ESA012D_454.0-456.0	0.01	0.05	610	6.3	0.05	13
ESA012D_456.0-458.0	0.01	0.03	360	14.5	0.01	8
ESA012D_458.0-460.0	0.03	0.03	400	3.2	0.01	10
ESA012D_460.0-462.0	0.03	0.06	350	3.9	0.06	12
ESA012D_462.0-464.0	0.01	0.07	270	4	0.02	4
ESA012D_464.0-466.0	0.02	0.04	340	6.8	0.01	11
ESA012D_466.0-468.0	0.01	0.02	350	4.4	<0.01	4
ESA012D_468.0-470.0	0.02	0.03	520	6.9	0.03	13
ESA012D_470.0-471.0	0.02	0.02	770	10.4	0.01	30
ESA012D_471.0-472.0	0.03	0.02	390	13.7	0.02	46
ESA012D_472.0-473.0	0.02	0.02	120	5.9	<0.01	18
ESA012D_473.0-474.0	0.04	0.21	120	11	0.03	29
ESA012D_474.0-476.0	0.03	0.3	210	11.8	0.08	49
ESA012D_476.0-478.0	0.03	0.04	210	8.9	0.03	49
ESA012D_478.0-480.0	0.02	0.07	240	6.9	0.03	25
ESA012D_480.0-482.0	0.02	0.07	1010	5.6	0.05	26
ESA012D_482.0-484.0	0.02	0.03	700	13.4	0.04	46
ESA012D_484.0-486.0	0.05	0.07	550	25.6	0.01	161
ESA012D_486.0-488.0	0.3	0.43	290	40.3	<0.01	298
ESA012D_488.0-490.0	0.11	0.25	640	33.4	0.01	434
ESA012D_490.0-492.0	0.07	0.23	470	29.7	0.08	254
ESA012D_492.0-494.0	0.04	0.29	290	28.9	0.04	201
ESA012D_494.0-496.0	0.09	0.21	160	32.1	0.01	125
ESA012D_496.0-498.0	0.06	0.16	50	18	<0.01	29
ESA012D_498.0-500.0	0.36	0.73	30	42.4	<0.01	28
ESA012D_500.0-502.0	0.31	0.99	70	66.8	<0.01	40
ESA012D_502.0-504.0	0.08	0.11	430	46.3	<0.01	227
ESA012D_504.0-506.0	0.21	0.17	540	49.7	0.01	220
ESA012D_506.0-508.0	0.09	0.12	620	57	<0.01	321
ESA012D_508.0-510.0	0.26	0.2	510	39.1	<0.01	294
ESA012D_510.0-512.0	0.07	0.41	500	53.7	<0.01	367
ESA012D_512.0-514.0	0.04	0.31	470	47.3	<0.01	404
ESA012D_514.0-516.0	0.2	0.47	50	25.8	0.01	85
ESA012D_516.0-518.0	0.06	0.41	60	21.3	<0.01	64
ESA012D_518.0-520.0	0.08	0.27	20	22.7	0.01	16
ESA012D_520.0-521.0	0.1	0.51	30	27.6	0.01	25

7. Conclusion

The results received do not support further exploration. Drilling results returned no evidence of economic mineralisation, nor any indications approaching economic significance. As such, the outcomes do not support further exploration activities on the project at this time.

8. References

9. Reno,B. et al. (2021). New constraints on the timing of metamorphism, deformation, and base metal mineralisation in the Aileron Province.
10. Ahmad M and Khan M, 2013. Chapter 3: Commodity reviews: in Ahmad M and Munson TJ (compilers). 'Geology and mineral resources of the Northern Territory'. Northern Territory Geological Survey, Special Publication 5.