

## QUARTERLY REPORT – ACTIVITIES For Quarter Ended 31 March 2024

### HIGHLIGHTS:

#### Lyndon Uranium/Lithium/REE

- New Rock chip assay results up to 6,612ppm  $U_3O_8$  at the Baltic Bore and Jailor Bore prospects
- 12 rock chips returned assays  $>1,000ppm U_3O_8$
- 5 rock chips returned assays  $>1,000ppm V_2O_5$
- Uranium anomalism spans strike lengths of 2.6km at Baltic Bore and 2km at Jailor Bore
- Lyndon Project Immediately adjoins Paladin Energy's Carley Bore Uranium Project (15.6MLbs  $U_3O_8$ )

#### Relief Well Uranium Project (Lyndon):

- Relief Well Uranium Prospect immediately adjoins Paladin Energy's Carley Bore Uranium Project (15.6MLbs  $U_3O_8$  announced resource)<sup>1</sup>
- Extensive 8km long palaeochannel confirmed at Relief Well, prospective for roll-front style uranium mineralisation
- Drill planning underway for testing of roll-front uranium mineralisation at Relief Well

#### Gascoyne East:

- Completion of lithological and structural interpretation from geophysical datasets
- PoW approval for Phase 1 aircore drilling to assist bedrock mapping
- Geophysical interpretation has confirmed drill targets for:
  - Intrusion-related porphyry and Iron Oxide Copper-Gold (IOCG) mineralisation
  - Magmatic Ni-Cu-PGE mineralisation within a distinct layered mafic intrusion
  - Orogenic and intrusion-related gold mineralisation within the Dalgaringa Supersuite and Camel Hills Metamorphics.
  - Intrusion-related gold and base metal deposits within the Edmund Basin
  - Sedimentary-hosted base metal deposits in the Edmund Basin analogous to the Abra deposit
- At-surface uranium targets identified through airborne radiometric survey data

Odessa Minerals Limited (ASX: ODE) ("Odessa" or the "Company") is pleased to report on its activities for the quarter ending 31 March 2024 (the "Quarter").

#### Odessa's Executive Director, David Lenigas, commented:

*"It's been a very active and successful exploration period for Odessa in the Gascoyne this past quarter, having identified very significant uranium prospects emerging at Lyndon returning some exceptional grades up to 6,600 ppm  $U_3O_8$ . Our exploration priorities in the Gascoyne are now swayed towards accelerating our uranium targeting at Lyndon and readying the uranium prospects for drilling later this quarter if possible. We are also excited with what we are seeing now at Gascoyne East with the detailed interpretation of the airborne survey highlight excellent gold copper and uranium targets. Detailed planning for air-core and RC drilling is now well underway and should also start later this quarter or early next quarter."*

<sup>1</sup> Refer to ASX announcement dated 15 April 2024.

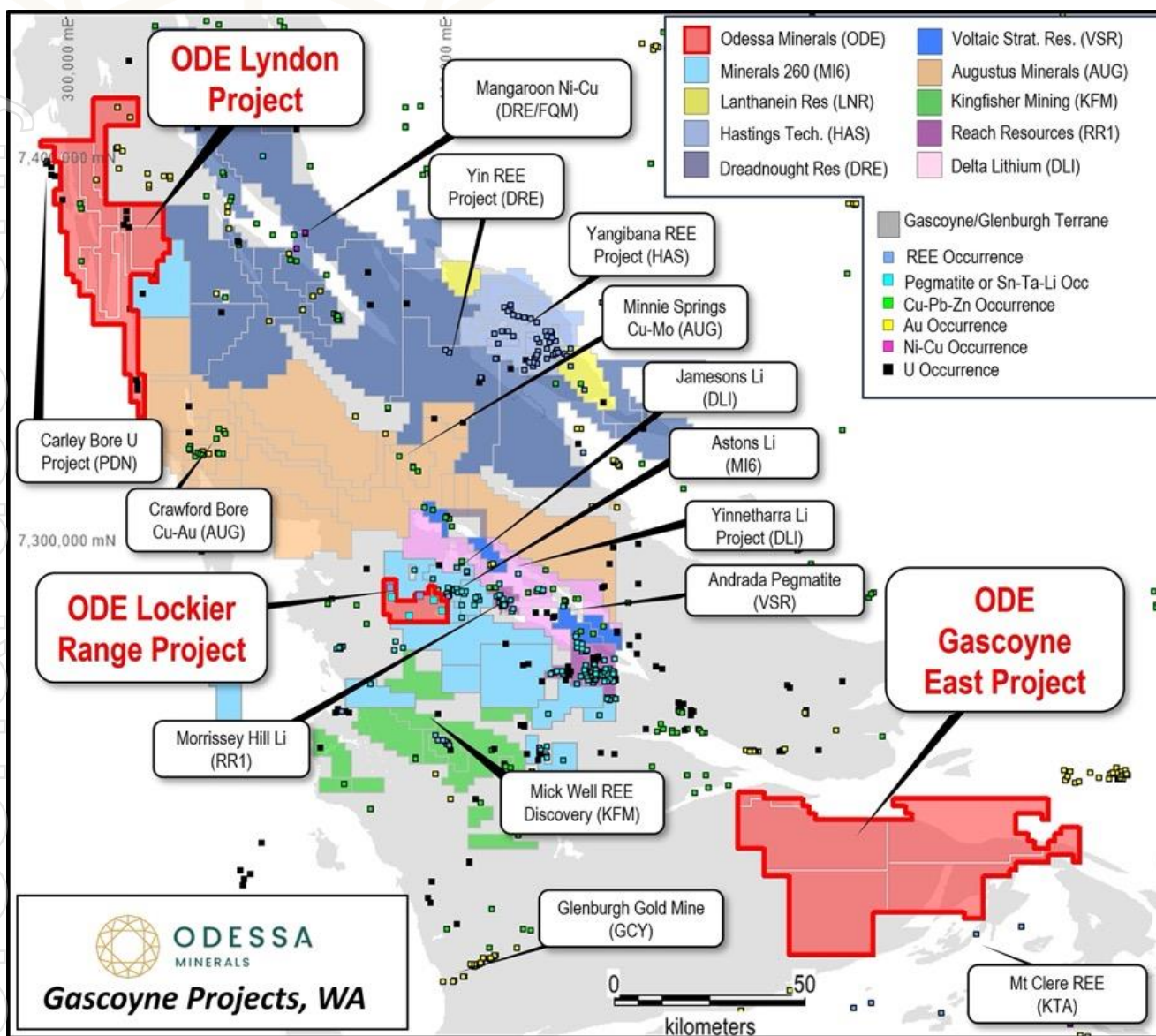


Figure 1: Odessa Minerals regional Gascoyne Project location map overlain with Geological Survey WA Minedex Occurrences.

## Lyndon Uranium/Lithium/REE Project

### Lyndon Project Overview

The Lyndon Project is located on the margin of the Carnarvon Basin and Gascoyne Complex approximately 200km south of Onslow and 200km NE of Carnarvon, in Western Australia. The project consists of over 1,000km<sup>2</sup> of exploration licenses and applications.



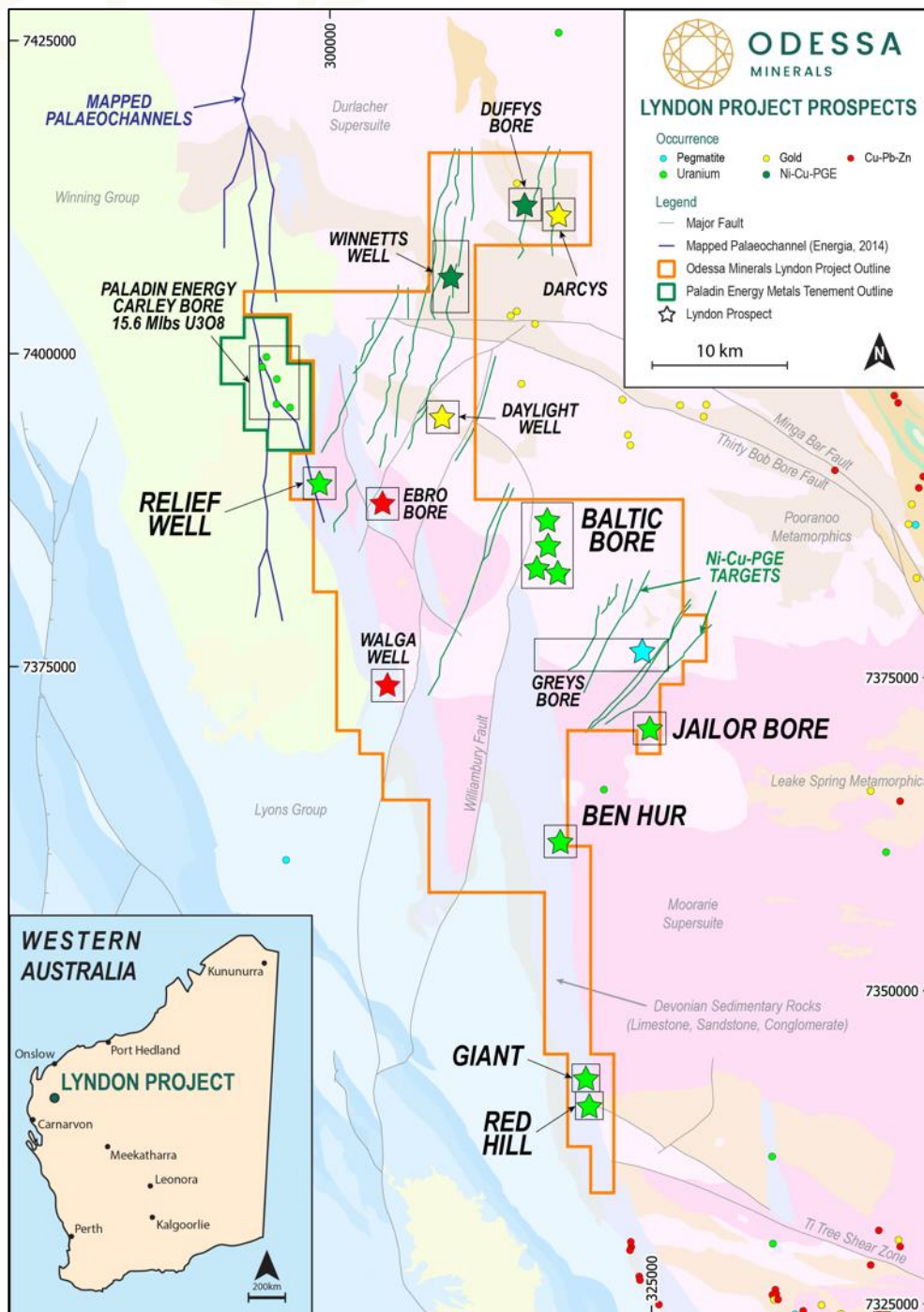


Figure 2: Lyndon Project prospects in relation to Minedex occurrences and the Carley Bore Project (Paladin Energy). Underlain with GSWA 1:500k bedrock geology and structures.

The Company has previously conducted detailed airborne magnetics and radiometrics over a large part of the project area. The Project encompasses multiple MINDEX occurrences and is prospective for Lithium-pegmatites, uranium, rare earth elements, intrusive Ni-Cu-PGE, orogenic gold and sedimentary-hosted Cu-Pb-Zn mineralisation (Figure 2).

The Project area covers the unconformity between the eastern margin of the Phanerozoic Carnarvon Basin overlying Precambrian basement of the Gascoyne Province. The basement consists of Proterozoic granites,



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metamorphic gneisses and schists of the Gascoyne Complex. The western parts of the Project include the Palaeozoic-Mesozoic basin margin sedimentary sequences of the Southern Carnarvon Basin including the Merlinleigh Sub-Basin, marked by Devonian sedimentary carbonates; Carboniferous-Permian glaciogene sediments of the Lyons Group; and the siliciclastic sequences of the Cretaceous Winning Group that were deposited coincident with NW-SE rifting.

### Lyndon Uranium Exploration

A first pass technical review was undertaken for the **uranium** potential on Lyndon, and this was reported in January 2024.

Highlights of historic data\* include:

- Reported Uranium grades (WAMEX/MINEDEX) up to 3,420ppm  $U_3O_8$
- Ten individual uranium occurrences (MINEDEX) on the Lyndon Project
- Lyndon Project immediately adjoins Paladin Energy's Carley Bore Uranium Project, within 1.3km of the 15.6MLbs  $U_3O_8$  announced resource<sup>i</sup>
- Calcrete-hosted uranium mineralisation in carnotite (an oxide of uranium and vanadium and an important ore mineral) present at surface at the Jailor Bore, Baltic Bore and Ben Hur Prospects (See Figure 2 for location map).
- Historic surface high-grade uranium rock chip samples
- Historic drilling and pre-JORC mineral resource reported in MINEDEX at the Jailor Bore Prospect
- Extensive radiometric uranium anomalies largely untested by drilling
- Paleochannel-hosted roll-front uranium target extends from Paladin Energy's Carley Bore Project with significant VTEM anomalies at the Relief Well Prospect

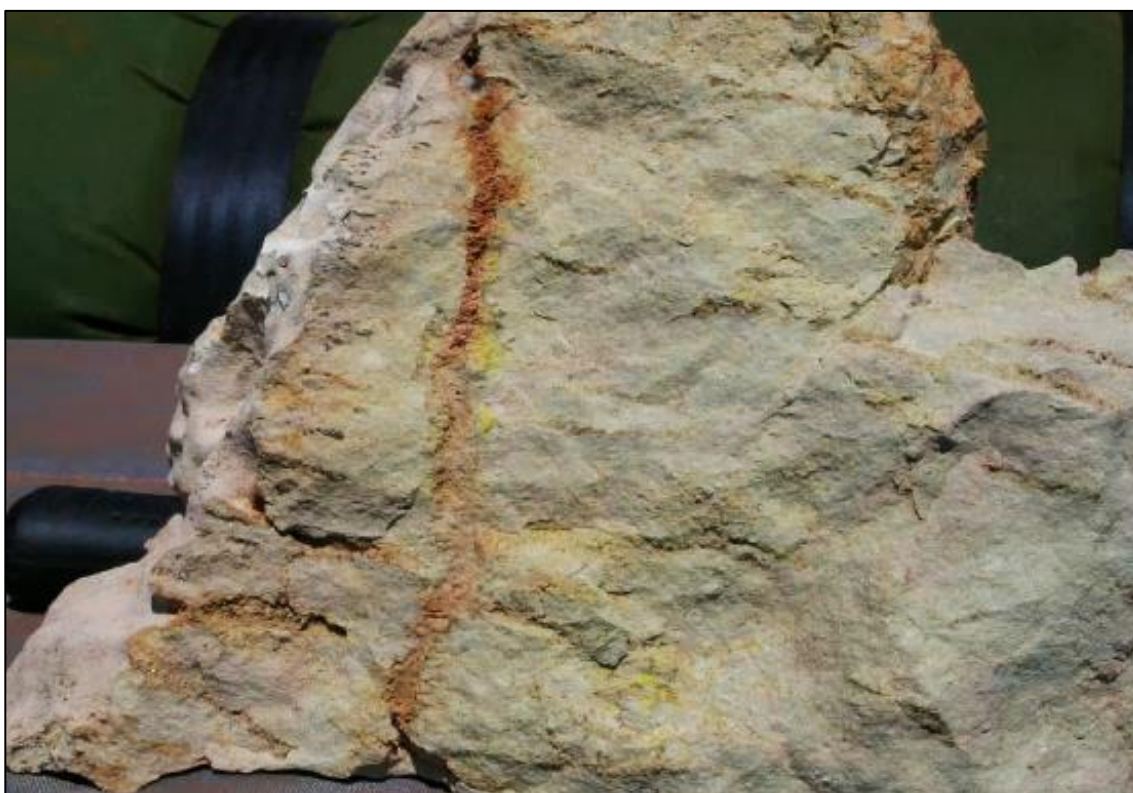


Figure 3: Carnotite (uranium) mineralisation (yellow mineral) in porous sandy limestone from the Ben Hur prospect.





### **\*Comment on using historic data**

Historic assay information in this release has been compiled from data reported in Geological Survey of Western Australia's MINEDEX Database, public filing by previous explorers or publicly available mineral exploration reports (the WAMEX archive). In the case of Jailor Bore, an historic mineral resource estimate is presented in MINEDEX, but cannot be reported here as it is non-JORC compliant. Information is considered as historic by nature, and while all care has been taken to review and compile previous reports, ground testing and confirmation works were only commenced during the quarter with the first results announced subsequent to the end of quarter. This recent work is on-going yet has confirmed the presence of uranium mineralisation at surface, with previously reported drill thicknesses yet to be confirmed.

### **Lyndon Project Uranium Targeting**

The Lyndon Project is located on the margin of the Carnarvon Basin and Gascoyne Complex approximately 200km south of Onslow and 200km NE of Carnarvon, in Western Australia. The project consists of over 1,000 square kilometres of exploration licenses and applications. The Company has previously conducted detailed airborne magnetics and radiometrics over a large part of the project area. As well as uranium occurrences, there are several known occurrences of pegmatites for lithium mineralisation targeting and the project has the potential for copper-gold, nickel-copper, and rare earth elements.

### **Project Geology & Previous Exploration**

The Project area encompasses the unconformity between the eastern margin of the Phanerozoic Carnarvon Basin overlying Precambrian basement of the Gascoyne Province (Figure 4). The basement consists of Proterozoic granites, metamorphic gneisses and schists of the Gascoyne Complex. The western parts of the Project include the Palaeozoic-Mesozoic basin margin sedimentary sequences of the Southern Carnarvon Basin including the Merlinleigh Sub-Basin, marked by Devonian sedimentary carbonates; Carboniferous-Permian glaciogenic sediments of the Lyons Group; and the siliciclastic sequences of the Cretaceous Winning Group that were deposited coincident with NW-SE rifting.

Uranium mineralisation is found across multiple styles (Figure 3). Mineralisation at Paladin Energy's Carley Bore Project is Roll Front-Type, hosted within the Cretaceous Birdrong Sandstone and concentrated at redox boundaries. VTEM (Versatile Time-Domain ElectroMagnetic Survey) data suggests the Birdrong Sandstone extends across the Odessa Lyndon Project, in which the Relief Well prospect is situated. Jailor Bore, Baltic Bore and Ben Hur prospects express calcrete-type mineralisation, where uranium is concentrated in surficial deposits of carbonate-rich material. The Langer-Heinrich Mine in Namibia (Paladin Energy) and Yeelerrie Deposit in Western Australia are calcrete type deposits.



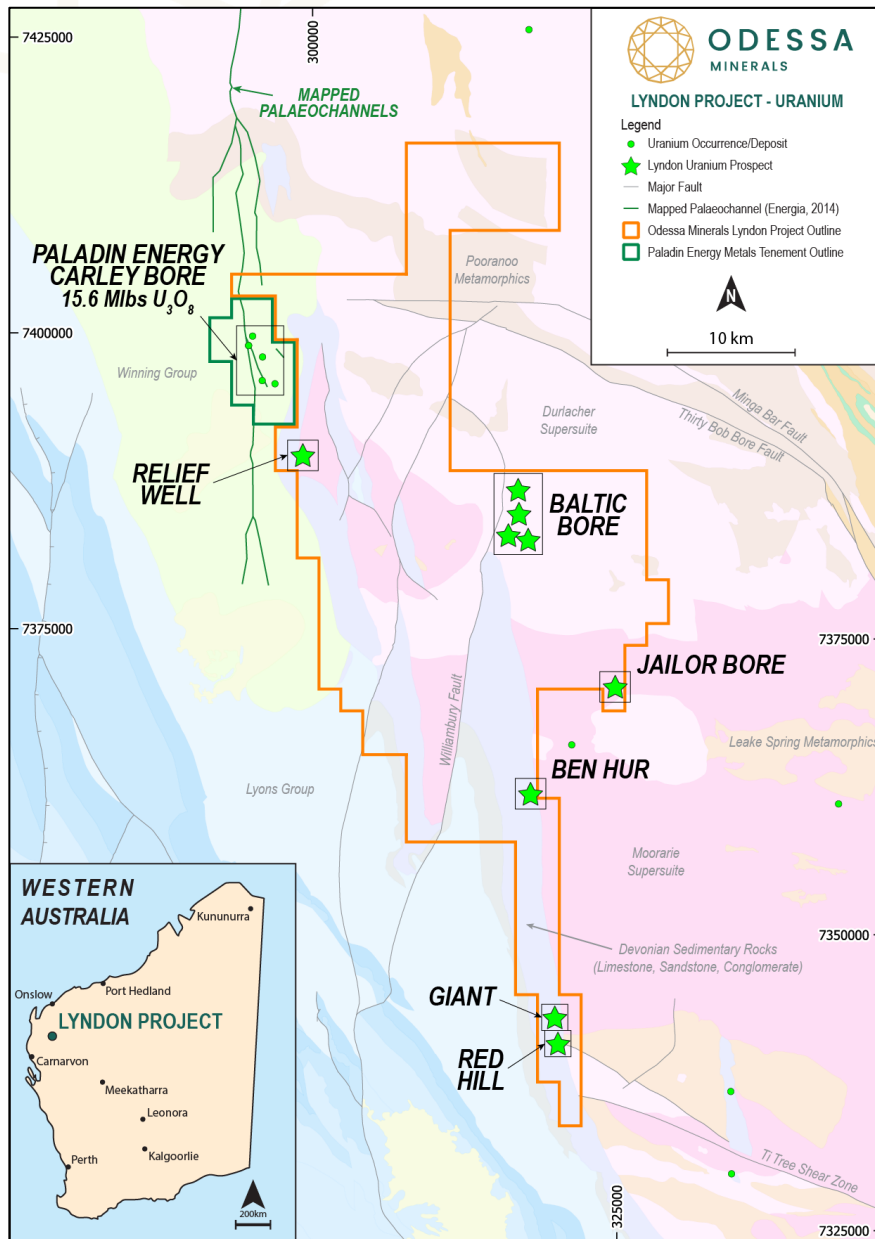


Figure 4: Lyndon Project uranium MINEDEX occurrences in relation to the Carley Bore Project (Paladin Energy). Underlain with GSWA 1:500k bedrock geology and structure (pinks = Proterozoic granitoids/gneisses; pale brown = Proterozoic meta-sediments; blue & greens = Palaeozoic/Mesozoic Sediments).

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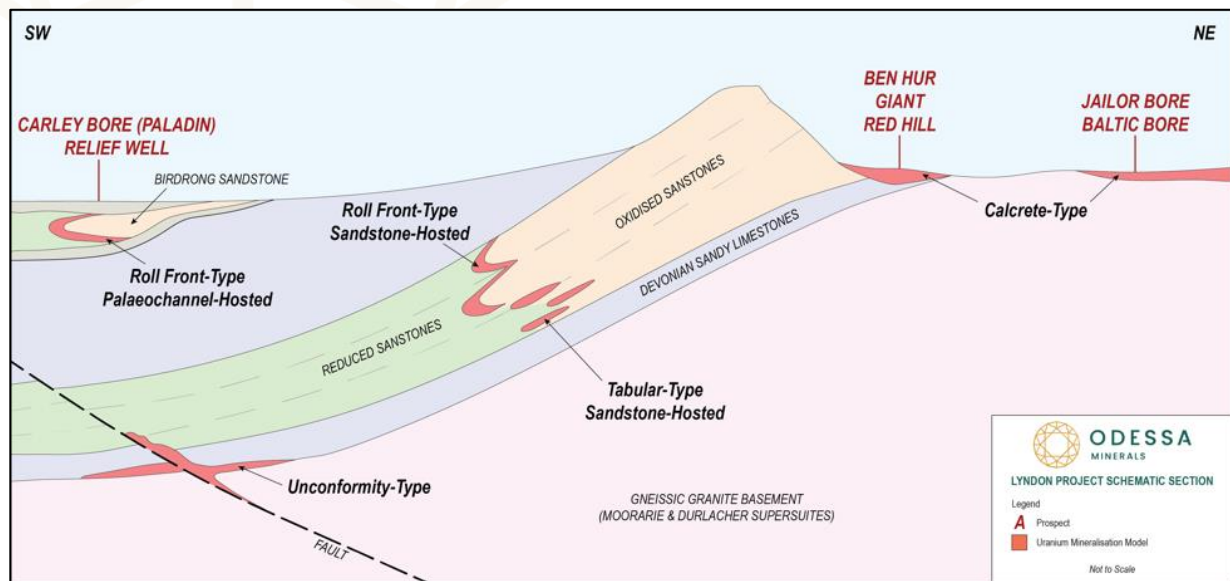


Figure 5: Schematic model section of potential uranium mineralisation styles across the Lyndon Project area. The relative position of prospects are displayed. Modified after Newera Resources, 2014.

Between 1972 and 1974 Pacminex Ltd conducted regional reconnaissance and the first radiometric survey over the region, which included the discovery of the Carley Bore mineralisation and other prospects. Several other explorers including Samantha Mines NL, Uranerz Pty Ltd, Westfield Minerals, Minatome Australia, Aquitaine Mining, Acclaim Uranium, Metex Resources, Raisama Ltd and Newera Resources have intermittently conducted exploration between 1974 and 2014.

### Relief Well / Paleochannel Uranium Target

- 5km of VTEM geophysical anomaly potentially mapping out paleochannel target horizons as hosts to uranium mineralisation.
- Historic drilling up to 2m @ 206ppm  $U_3O_8$  from 58m

Relief Well is directly along strike from Paladin Energy's Carley Bore deposit and is interpreted as being an upstream extension of the paleochannel host. Stratigraphy consists of a sequence of paleochannel sandstone sediments (the Birdrong Sandstone) of the Winning Formation.

In 2007, Newera Uranium Ltd conducted a VTEM survey to map out potential paleochannels (Figure 6). Newera completed two RC drill holes to test the anomaly during 2008-2009 with peak results being 2m @ 206ppm  $U_3O_8$  from 58m (Table 1). This work highlighted a target zone of highly conductive material spanning >5km strike, with drilling confirming the presence of uranium mineralisation and intercepting channel-shales of between 10 and 50m wide.

With most of the >5km trend currently untested, Relief Well provides a drill-ready Roll Front-Type uranium target that remains open to the south and is located adjacent to Paladin Energy's existing Carley Bore deposit.





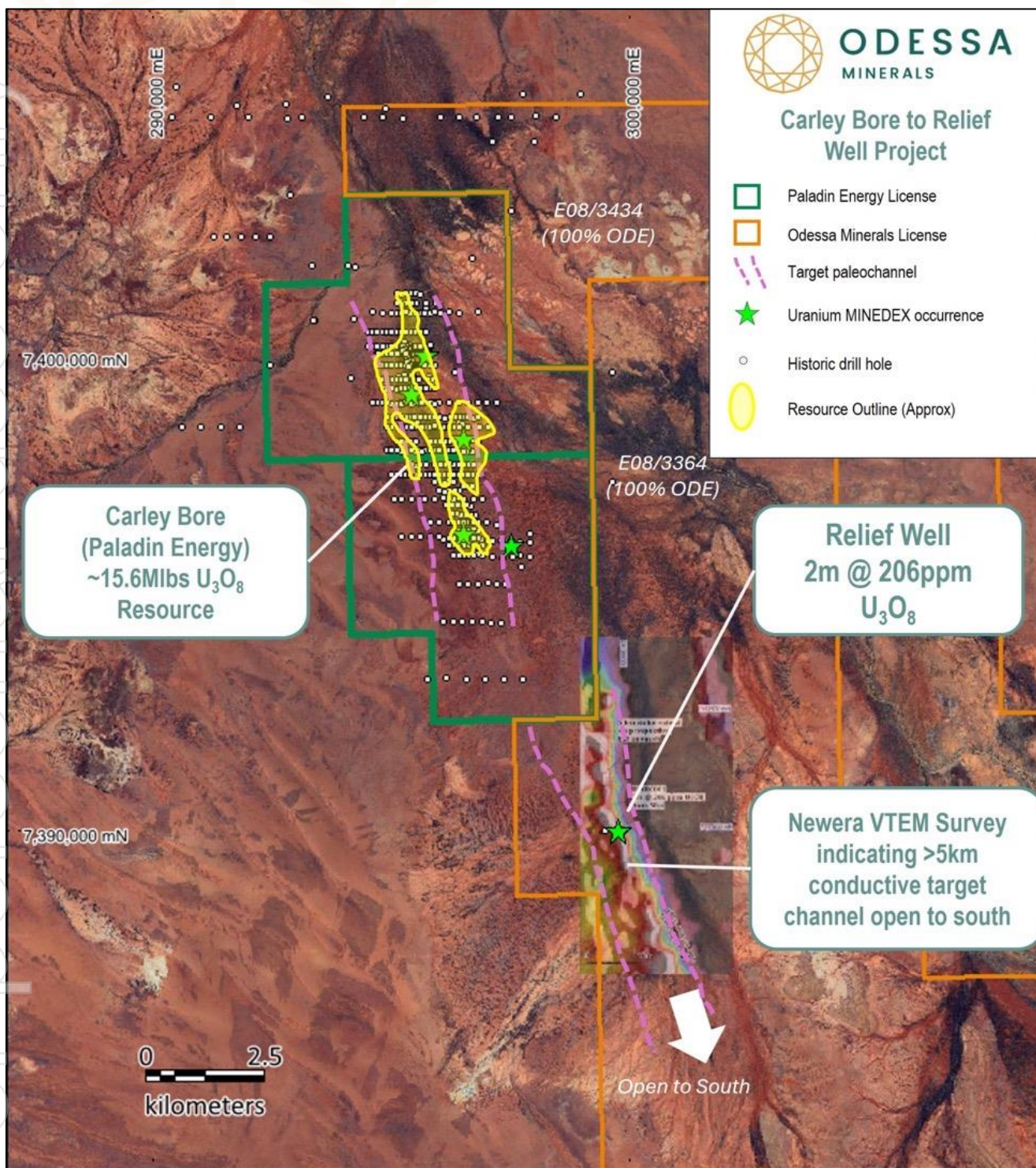


Figure 6: Relief Well VTEM survey from Newera Resources. The hotter colours, red to white, indicate the inferred paleochannel extension, a principal target for uranium mineralisation along strike of the Carley Bore deposit.

**Table 1: Relief Well Drill hole results**

| Hole Details |           |      |         |           | Significant Intercept |        |           |                                     |
|--------------|-----------|------|---------|-----------|-----------------------|--------|-----------|-------------------------------------|
| Hole ID      | Depth (m) | Type | Easting | Northing  | From (m)              | To (m) | Width (m) | U <sub>3</sub> O <sub>8</sub> (ppm) |
| RWRC001      | 69        | RC   | 299,752 | 7,390,002 | 58                    | 60     | 2         | 206                                 |
| RWRC002      | 100       | RC   | 299,459 | 7,390,003 | No significant result |        |           |                                     |







### Baltic Bore Uranium Target

- 4 individual MINEDEX Occurrences
- Multiple strong uranium anomalies in radiometrics data covering >4km strike length
- Calcrete rock samples up to 3,420ppm U<sub>3</sub>O<sub>8</sub>
- Historic shallow drilling up to 1m @ 1,217ppm U<sub>3</sub>O<sub>8</sub> from 3m

The Baltic Bore prospect area consists of radiogenic granitoids overlain by Cenozoic calcrete terraces and alluvial drainage channels. In 1977, Samantha Mines NL reported rock chip results with visible carnotite in calcrete with grades up to 3,420ppm U<sub>3</sub>O<sub>8</sub> (Table 2). Raisama Ltd reported drill results up to 1m @ 1,217ppm U<sub>3</sub>O<sub>8</sub> in 2010 and further determined that the calcrete extends beneath the alluvial cover, with potentially blind, thicker portions remaining to be tested ( Table 2).

A subsequent radiometric survey completed in 2022 by Odessa identified multiple uranium anomalies. Given the findings by Raisama and that even a thin layer of alluvial cover will obscure the uranium radiometric signature, the Company believes this prospect area has considerable untested potential for additional calcrete-type uranium mineralisation.

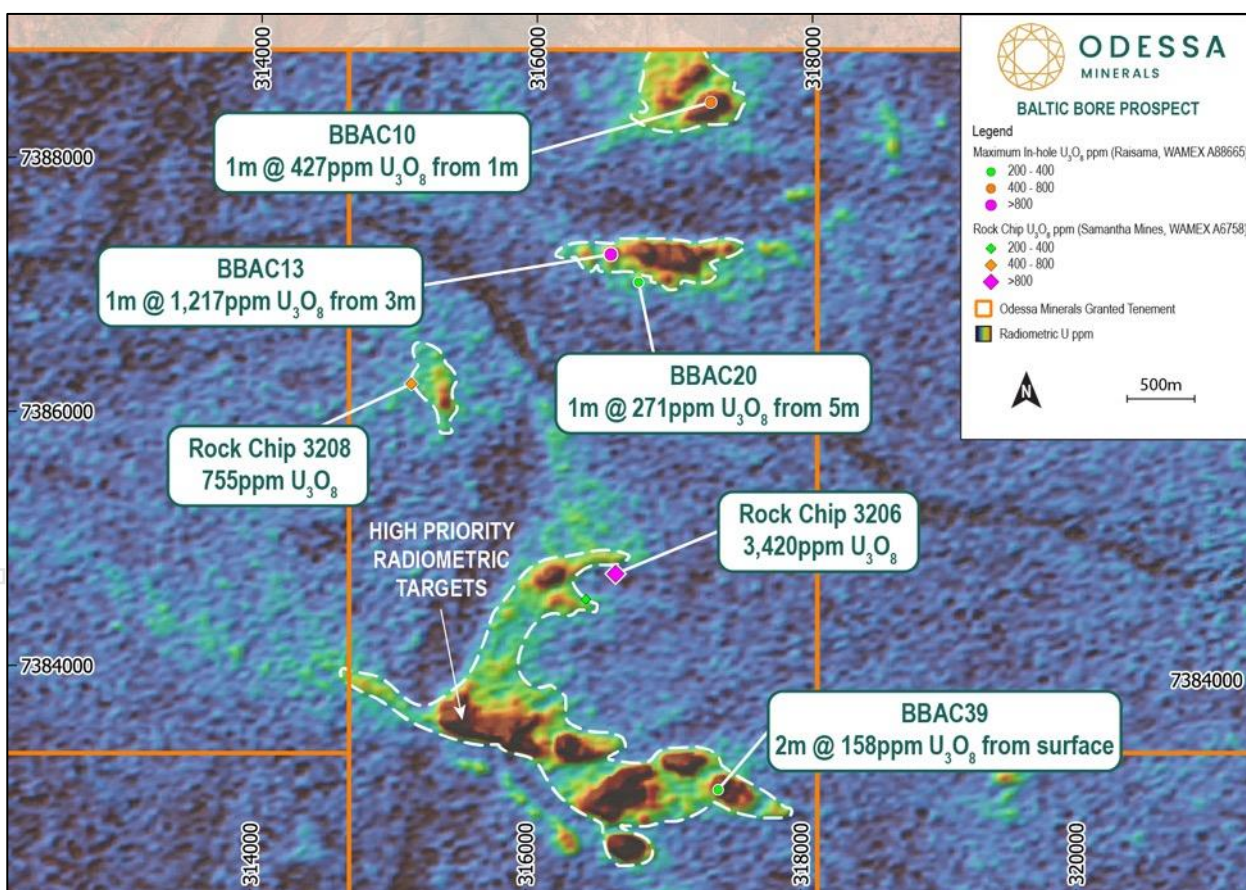


Figure 7: Baltic Bore Uranium Prospect area displaying Raisama significant drilling intercepts coded by maximum in-hole U<sub>3</sub>O<sub>8</sub> pp and rock chip samples collected by Samantha Mines NL, underlain by Uranium-band radiometric data (red = high uranium in airborne radiometric data).





**Table 2: Rock chip samples at Baltic Bore. Coordinates in GDA94 Zone 50S obtained via georeferenced image with +/-100m accuracy.**

| Sample Details |           |         |           |                                     |
|----------------|-----------|---------|-----------|-------------------------------------|
| Sample ID      | Type      | Easting | Northing  | U <sub>3</sub> O <sub>8</sub> (ppm) |
| 3205           | Rock Chip | 316,800 | 7,384,600 | 200                                 |
| 3206           | Rock Chip | 317,000 | 7,384,800 | 3,420                               |
| 3208           | Rock Chip | 315,400 | 7,386,300 | 755                                 |

**Table 2: Significant intercepts at Baltic Bore. Coordinates in GDA94 Zone 50S. Raisama Ltd.**

| Hole Details |           |      |         |           |     | Significant Intercept |        |           |                                     |
|--------------|-----------|------|---------|-----------|-----|-----------------------|--------|-----------|-------------------------------------|
| Hole ID      | Depth (m) | Type | Easting | Northing  | RL  | From (m)              | To (m) | Width (m) | U <sub>3</sub> O <sub>8</sub> (ppm) |
| BBAC10       | 12        | AC   | 317,270 | 7,388,497 | 211 | 1                     | 2      | 1         | 427                                 |
| BBAC13       | 8         | AC   | 316,558 | 7,387,290 | 211 | 3                     | 4      | 1         | 1,217                               |
| BBAC20       | 9         | AC   | 316,762 | 7,387,073 | 214 | 5                     | 6      | 1         | 271                                 |
| BBAC39       | 9         | AC   | 317,390 | 7,383,086 | 214 | 0                     | 2      | 2         | 158                                 |

As reported by the Company on 22 April 2024 on Baltic Bore exploration (post the end of the reporting period):

- Rock chip assay results up to 6,612ppm U<sub>3</sub>O<sub>8</sub> at the Baltic Bore and Jailor Bore prospects
- 12 rock chips returned assays >1,000ppm U<sub>3</sub>O<sub>8</sub>
- 5 rock chips returned assays >1,000ppm V<sub>2</sub>O<sub>5</sub>
- Uranium anomalism spans strike lengths of 2.6km at Baltic Bore and 2km at Jailor Bore
- Lyndon Project Immediately adjoins Paladin Energy's Carley Bore Uranium Project (15.6MLbs U<sub>3</sub>O<sub>8</sub>)

The Baltic Bore prospect area consists of multiple radiometric anomalies associated with calcrete terraces over a **strike length of 2.6km** (Figure 9). Surface mineralisation has been identified as carnotite, a potassium uranium vanadate mineral, hosted in the vugs and fractures of siliceous calcrete, and in the matrix of reworked calcretes (Figure ).

Recent surface sampling has returned exceptional rock chip assay results up to **6,612ppm U<sub>3</sub>O<sub>8</sub>** and **2,132ppm V<sub>2</sub>O<sub>5</sub>** in sample XT0970, with **eight samples returning >1,000ppm U<sub>3</sub>O<sub>8</sub>**. (Table 4).



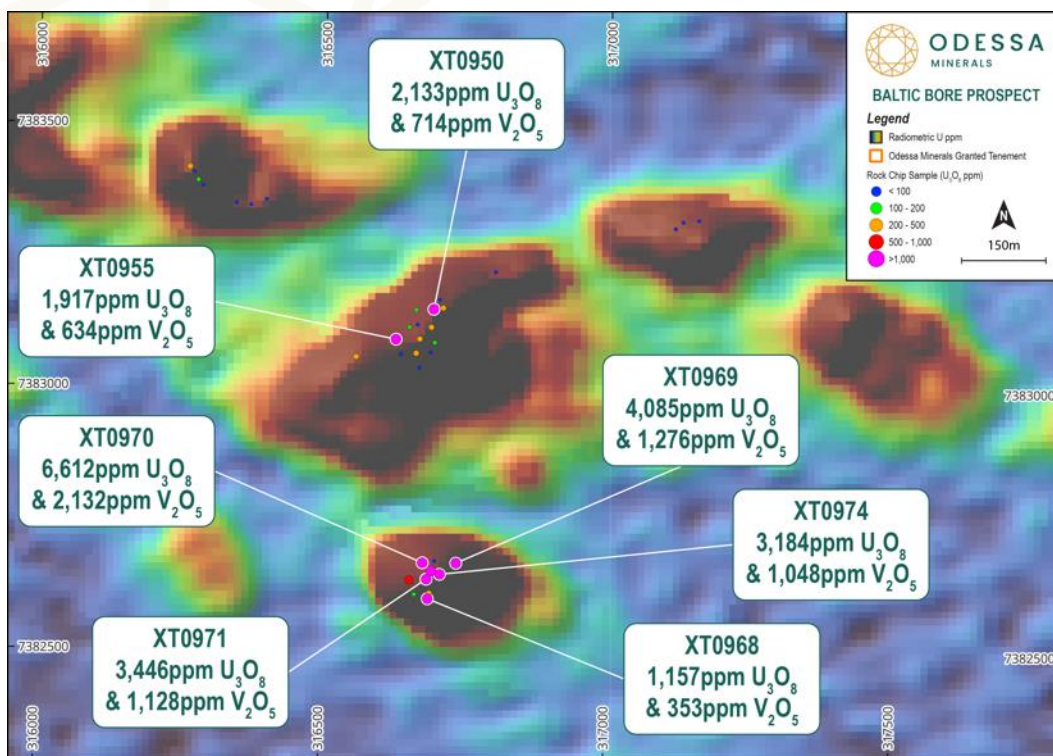


Figure 8: Baltic Bore Uranium Prospect area displaying rock chip samples coded by U<sub>3</sub>O<sub>8</sub> ppm underlain by Uranium-band radiometric data (red = high uranium in radiometric data).

Table 4: Results table for announcement dated 22 April 2024

| Sample ID | Easting | Northing  | RL  | Grid      | U (ppm)  | U <sub>3</sub> O <sub>8</sub> (ppm) | V (ppm) | V <sub>2</sub> O <sub>5</sub> (ppm) |
|-----------|---------|-----------|-----|-----------|----------|-------------------------------------|---------|-------------------------------------|
| XT0926    | 323,842 | 7,370,264 | 227 | GDA94_50S | 157.62   | 185.87                              | 46.00   | 82.12                               |
| XT0927    | 323,886 | 7,370,232 | 227 | GDA94_50S | 363.60   | 428.76                              | 112.00  | 199.94                              |
| XT0928    | 323,916 | 7,370,368 | 227 | GDA94_50S | 179.48   | 211.64                              | 46.00   | 82.12                               |
| XT0929    | 324,016 | 7,370,374 | 227 | GDA94_50S | 3,806.92 | 4,489.12                            | 863.00  | 1,540.63                            |
| XT0930    | 323,969 | 7,370,420 | 227 | GDA94_50S | 101.26   | 119.41                              | 27.00   | 48.20                               |
| XT0931    | 324,161 | 7,370,448 | 227 | GDA94_50S | 488.75   | 576.33                              | 106.00  | 189.23                              |
| XT0932    | 324,201 | 7,370,540 | 227 | GDA94_50S | 485.96   | 573.04                              | 124.00  | 221.36                              |
| XT0933    | 323,898 | 7,370,262 | 227 | GDA94_50S | 491.17   | 579.19                              | 120.00  | 214.22                              |
| XT0934    | 323,935 | 7,370,393 | 227 | GDA94_50S | 402.85   | 475.04                              | 90.00   | 160.67                              |
| XT0935    | 323,988 | 7,370,360 | 227 | GDA94_50S | 1,883.71 | 2,221.27                            | 428.00  | 764.07                              |
| XT0936    | 323,982 | 7,370,465 | 227 | GDA94_50S | 320.86   | 378.36                              | 81.00   | 144.60                              |
| XT0937    | 324,189 | 7,370,487 | 227 | GDA94_50S | 550.37   | 649.00                              | 127.00  | 226.72                              |
| XT0938    | 324,166 | 7,370,511 | 227 | GDA94_50S | 1,108.03 | 1,306.59                            | 249.00  | 444.51                              |
| XT0939    | 324,000 | 7,370,405 | 227 | GDA94_50S | 1,474.81 | 1,739.10                            | 332.00  | 592.69                              |
| XT0940    | 323,870 | 7,370,245 | 227 | GDA94_50S | 477.17   | 562.68                              | 314.00  | 560.55                              |
| XT0941    | 323,819 | 7,370,290 | 227 | GDA94_50S | 122.82   | 144.83                              | 42.00   | 74.98                               |
| XT0942    | 316,278 | 7,383,392 | 227 | GDA94_50S | 112.47   | 132.62                              | 31.00   | 55.34                               |
| XT0943    | 316,263 | 7,383,417 | 227 | GDA94_50S | 172.49   | 203.40                              | 48.00   | 85.69                               |
| XT0944    | 316,371 | 7,383,346 | 227 | GDA94_50S | 70.19    | 82.77                               | 22.00   | 39.27                               |
| XT0945    | 316,398 | 7,383,357 | 227 | GDA94_50S | 36.56    | 43.11                               | 16.00   | 28.56                               |
| XT0946    | 316,346 | 7,383,349 | 227 | GDA94_50S | 37.02    | 43.65                               | 15.00   | 26.78                               |
| XT0947    | 316,271 | 7,383,408 | 227 | GDA94_50S | 49.23    | 58.05                               | 16.00   | 28.56                               |
| XT0948    | 316,286 | 7,383,383 | 227 | GDA94_50S | 39.15    | 46.17                               | 23.00   | 41.06                               |
| XT0949    | 316,802 | 7,383,222 | 227 | GDA94_50S | 52.31    | 61.68                               | 18.00   | 32.13                               |
| XT0950    | 316,694 | 7,383,150 | 227 | GDA94_50S | 1,808.69 | 2,132.81                            | 400.00  | 714.08                              |
| XT0951    | 316,696 | 7,383,087 | 227 | GDA94_50S | 122.69   | 144.68                              | 28.00   | 49.99                               |
| XT0952    | 316,664 | 7,383,066 | 227 | GDA94_50S | 307.83   | 362.99                              | 72.00   | 128.53                              |
| XT0953    | 316,666 | 7,383,121 | 227 | GDA94_50S | 68.74    | 81.06                               | 16.00   | 28.56                               |
| XT0954    | 316,558 | 7,383,059 | 227 | GDA94_50S | 283.77   | 334.62                              | 61.00   | 108.90                              |







| Sample ID | Easting | Northing  | RL  | Grid      | U (ppm)  | U <sub>3</sub> O <sub>8</sub> (ppm) | V (ppm)  | V <sub>2</sub> O <sub>5</sub> (ppm) |
|-----------|---------|-----------|-----|-----------|----------|-------------------------------------|----------|-------------------------------------|
| XT0955    | 316,628 | 7,383,092 | 227 | GDA94_50S | 1,625.72 | 1,917.05                            | 355.00   | 633.75                              |
| XT0956    | 316,651 | 7,383,116 | 227 | GDA94_50S | 94.28    | 111.18                              | 26.00    | 46.42                               |
| XT0957    | 316,670 | 7,383,093 | 227 | GDA94_50S | 170.92   | 201.55                              | 44.00    | 78.55                               |
| XT0958    | 316,690 | 7,383,116 | 227 | GDA94_50S | 174.14   | 205.35                              | 47.00    | 83.90                               |
| XT0959    | 316,663 | 7,383,148 | 227 | GDA94_50S | 131.13   | 154.63                              | 30.00    | 53.56                               |
| XT0960    | 316,637 | 7,383,064 | 227 | GDA94_50S | 42.83    | 50.51                               | 26.00    | 46.42                               |
| XT0961    | 316,670 | 7,383,038 | 227 | GDA94_50S | 56.15    | 66.21                               | 14.00    | 24.99                               |
| XT0962    | 316,689 | 7,383,068 | 227 | GDA94_50S | 57.38    | 67.66                               | 13.00    | 23.21                               |
| XT0963    | 316,710 | 7,383,153 | 227 | GDA94_50S | 387.45   | 456.88                              | 86.00    | 153.53                              |
| XT0964    | 316,704 | 7,383,168 | 227 | GDA94_50S | 26.47    | 31.21                               | 20.00    | 35.70                               |
| XT0965    | 316,656 | 7,382,635 | 227 | GDA94_50S | 459.47   | 541.81                              | 98.00    | 174.95                              |
| XT0966    | 316,700 | 7,382,671 | 227 | GDA94_50S | 28.53    | 33.64                               | 22.00    | 39.27                               |
| XT0967    | 316,694 | 7,382,652 | 227 | GDA94_50S | 1,351.07 | 1,593.18                            | 313.00   | 558.77                              |
| XT0968    | 316,689 | 7,382,599 | 227 | GDA94_50S | 980.88   | 1,156.65                            | 198.00   | 353.47                              |
| XT0969    | 316,738 | 7,382,668 | 227 | GDA94_50S | 3,463.99 | 4,084.74                            | 715.00   | 1,276.42                            |
| XT0970    | 316,679 | 7,382,668 | 227 | GDA94_50S | 5,606.84 | 6,611.59                            | 1,194.00 | 2,131.53                            |
| XT0971    | 316,686 | 7,382,637 | 227 | GDA94_50S | 2,922.39 | 3,446.08                            | 632.00   | 1,128.25                            |
| XT0972    | 316,691 | 7,382,610 | 227 | GDA94_50S | 249.21   | 293.87                              | 52.00    | 92.83                               |
| XT0973    | 316,665 | 7,382,608 | 227 | GDA94_50S | 103.86   | 122.47                              | 25.00    | 44.63                               |
| XT0974    | 316,710 | 7,382,646 | 227 | GDA94_50S | 2,700.31 | 3,184.21                            | 587.00   | 1,047.91                            |
| XT0975    | 317,234 | 7,388,470 | 227 | GDA94_50S | 84.59    | 99.75                               | 29.00    | 51.77                               |

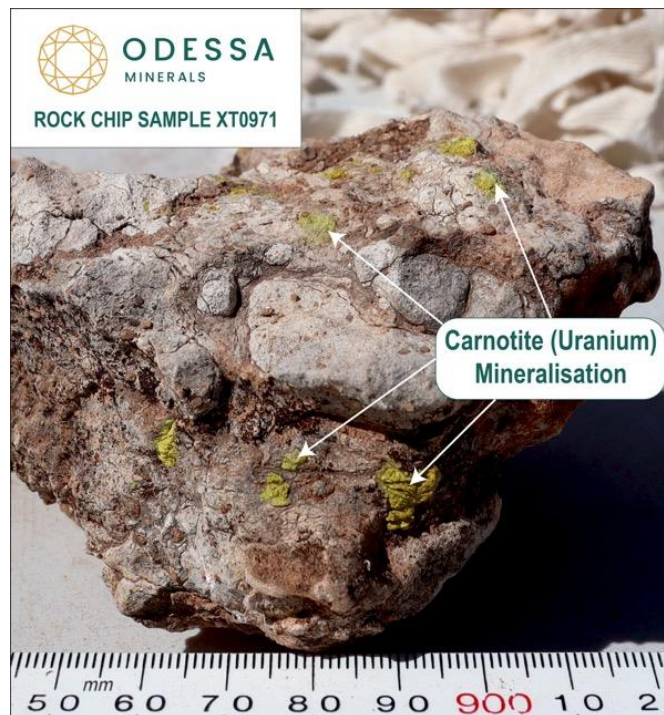


Figure 9: Carnotite (uranium) mineralisation within reworked siliceous calcrete at Baltic Bore in Odessa sample XT0971.

Historically, little attention has been paid to the Baltic Bore prospects when compared to Jailor Bore. However, this first-pass rock chipping has proven that the Baltic Bore region encompasses a cluster of very high-grade at-surface uranium targets that require further assessment through systematic follow-up sampling.

### Jailor Bore Uranium Target

- Calcrete-Type uranium mineralisation
- Historic mineral resource reported on MINEDEX





- Significant drilling intercepts include:
  - 6m @ 1,099ppm U<sub>3</sub>O<sub>8</sub>
  - 3m @ 1,533ppm U<sub>3</sub>O<sub>8</sub>
  - 2m @ 1,165ppm U<sub>3</sub>O<sub>8</sub>
- 2km x 300m strong uranium radiometric anomaly

Jailor Bore consists of over 2km of strike length of uranium radiometric anomalies. Surface mineralisation has been identified as carnotite hosted in vugs within calcrete. Pacminex historically completed the majority of drilling at Jailor bore in 1973, returning up to 3m @ 1,533ppm U<sub>3</sub>O<sub>8</sub> and 699ppm V<sub>2</sub>O<sub>5</sub> (Table 5; Figure 11). The GSWA MINEDEX database reports a non-JORC compliant mineral resource on the project from historic exploration.<sup>11</sup>

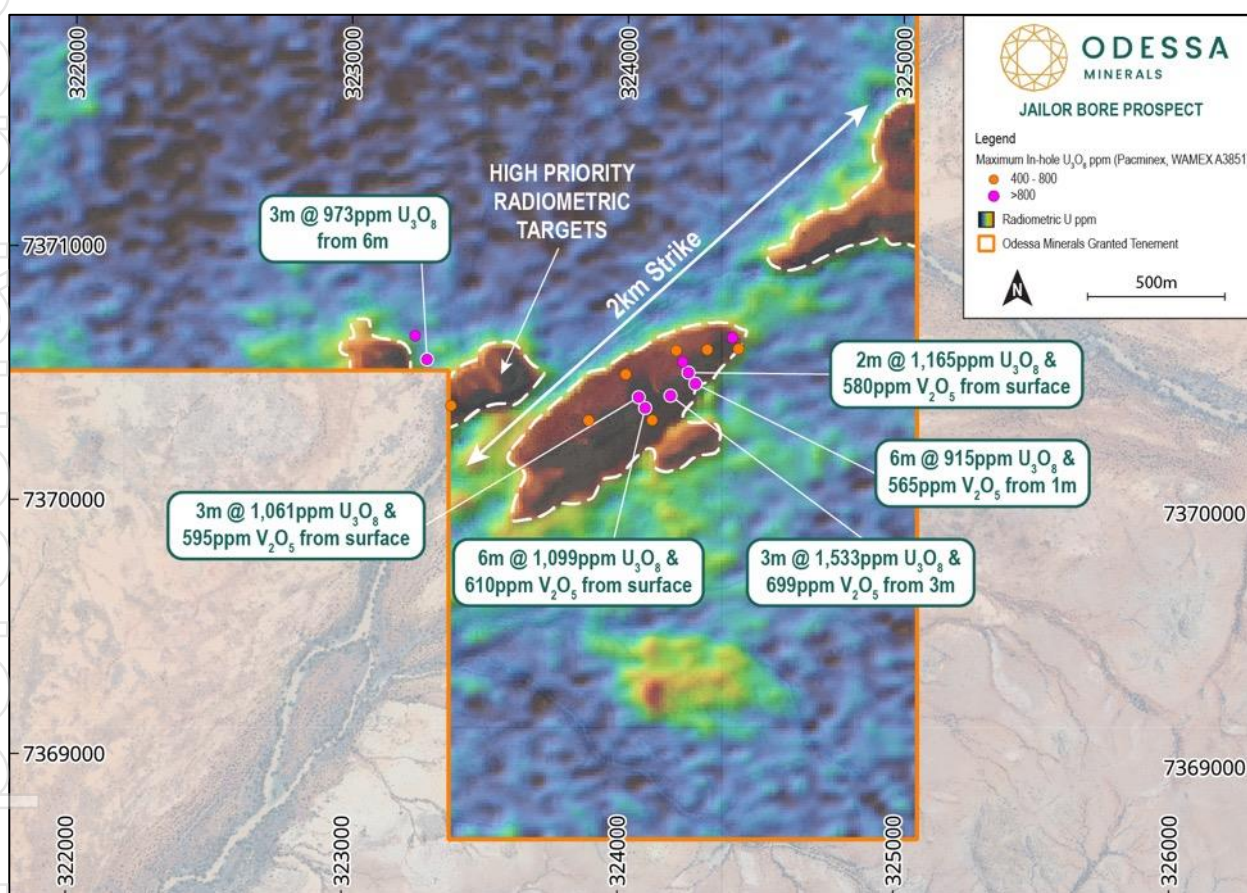


Figure 10: Jailor Bore Uranium Prospect area displaying historic Pacminex significant drilling intercepts coded by maximum in-hole U<sub>3</sub>O<sub>8</sub> ppm, overlain by Uranium-band radiometric data (red = high uranium in radiometric data).

**Table 5: Significant intercepts at Jailor Bore. Coordinates in GDA94 Zone 50S. Pacminex Ltd.**

| Hole Details |           |        |         |           | Significant Intercept |        |           |                                     |                                     |
|--------------|-----------|--------|---------|-----------|-----------------------|--------|-----------|-------------------------------------|-------------------------------------|
| Hole ID      | Depth (m) | Type   | Easting | Northing  | From (m)              | To (m) | Width (m) | U <sub>3</sub> O <sub>8</sub> (ppm) | V <sub>2</sub> O <sub>5</sub> (ppm) |
| 88           | 12.75     | Rotary | 324,415 | 7,370,624 | 5                     | 6      | 1         | 495                                 | 625                                 |
| 89           | 11.5      | Rotary | 324,392 | 7,370,668 | 6                     | 7      | 1         | 1,037                               | 759                                 |
| 97           | 4.5       | Rotary | 324,301 | 7,370,619 | 1                     | 3      | 2         | 582                                 | 402                                 |
| 98           | 12.7      | Rotary | 324,213 | 7,370,571 | 0                     | 1      | 1         | 946                                 | 536                                 |
| 99           | 3.7       | Rotary | 324,189 | 7,370,615 | 0                     | 1      | 1         | 410                                 | 223                                 |
| 101          | 7.4       | Rotary | 324,234 | 7,370,528 | 0                     | 2      | 2         | 1,165                               | 580                                 |







| Hole Details |           |        |         |           | Significant Intercept |        |           |                                     |                                     |
|--------------|-----------|--------|---------|-----------|-----------------------|--------|-----------|-------------------------------------|-------------------------------------|
| Hole ID      | Depth (m) | Type   | Easting | Northing  | From (m)              | To (m) | Width (m) | U <sub>3</sub> O <sub>8</sub> (ppm) | V <sub>2</sub> O <sub>5</sub> (ppm) |
|              |           |        |         |           | 5                     | 6      | 1         | 1,031                               | 714                                 |
| 102          | 8.4       | Rotary | 324,260 | 7,370,485 | 1                     | 7      | 6         | 915                                 | 656                                 |
| 104          | 10.1      | Rotary | 324,170 | 7,370,437 | 3                     | 6      | 3         | 1,533                               | 699                                 |
| 105          | 13.5      | Rotary | 324,079 | 7,370,387 | 0                     | 6      | 6         | 1,099                               | 610                                 |
| 106          | 8         | Rotary | 324,055 | 7,370,430 | 0                     | 3      | 3         | 1,061                               | 595                                 |
| 108          | 5.1       | Rotary | 324,007 | 7,370,519 | 1                     | 2      | 1         | 473                                 | 312                                 |
| 110          | 7.6       | Rotary | 324,105 | 7,370,340 | 4                     | 5      | 1         | 570                                 | 402                                 |
| 146          | 16.3      | Rotary | 323,241 | 7,370,662 | 7                     | 8      | 1         | 903                                 | Not Assayed                         |
| 147          | 11        | Rotary | 323,286 | 7,370,569 | 6                     | 9      | 3         | 973                                 | Not Assayed                         |
| 149          | 9         | Rotary | 323,375 | 7,370,388 | 2                     | 3      | 1         | 413                                 | Not Assayed                         |

Further exploration by Odessa, as report on 22 April 2024:

Jailor Bore consists of uranium **radiometric anomalies spanning 2km x 300m**. Like at Baltic Bore, carnotite uranium mineralisation is found in vugs and as fracture fill within siliceous calcrete overlying granitoid basement.

Recent surface sampling conducted at Jailor Bore returned **four rock chip assays >1,000ppm U<sub>3</sub>O<sub>8</sub>** from the central anomaly, with a **peak of 4,489ppm U<sub>3</sub>O<sub>8</sub>**. Additionally, high vanadium levels are associated with the uranium mineralisation, with **up to 1,541ppm V<sub>2</sub>O<sub>5</sub>** in rock chip XT0929 (Figure 12 and Table 5).

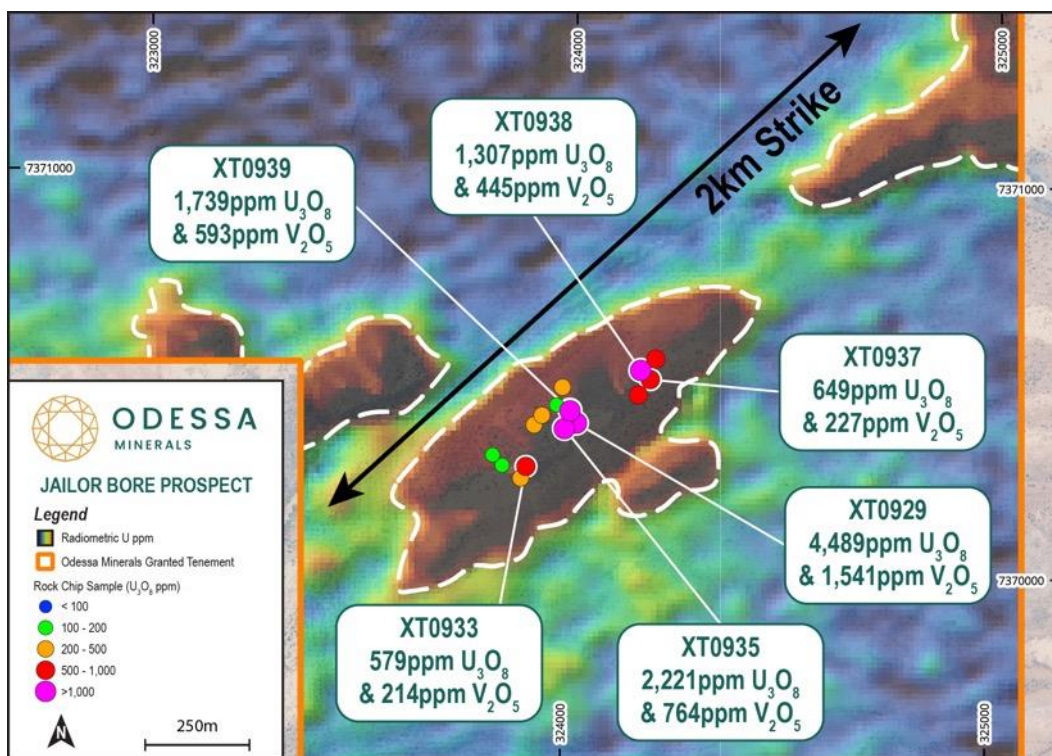


Figure 11: Jailor Bore Uranium Prospect area displaying rock chip samples coded by U<sub>3</sub>O<sub>8</sub> ppm underlain by Uranium-band radiometric data (red = high uranium in radiometric data).





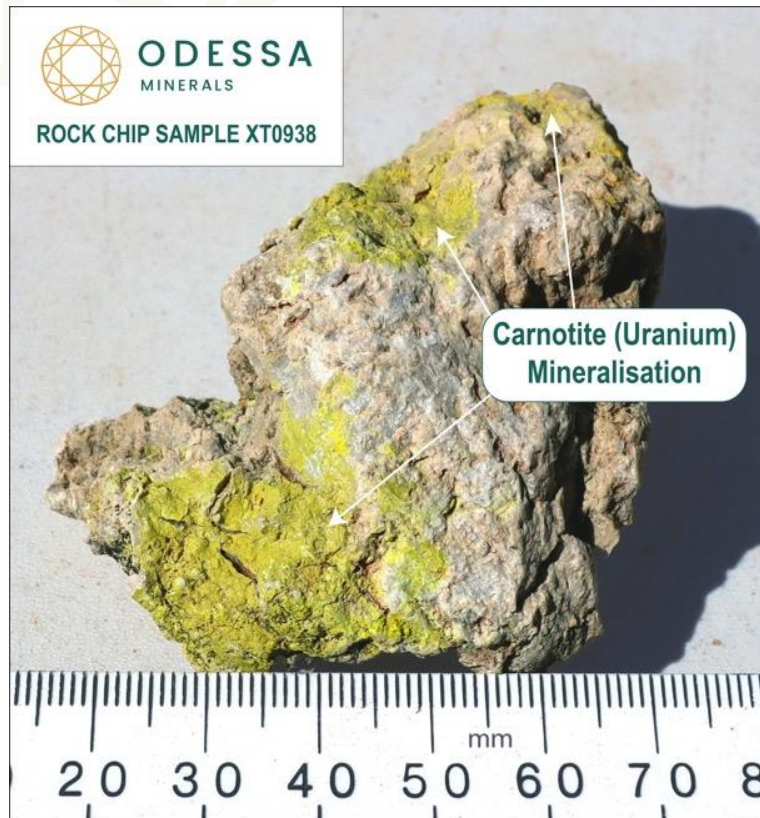


Figure 12: Carnotite (uranium) mineralisation within siliceous calcrete at the Jailor Bore prospect in Odessa sample XT0938.

### Ben Hur, Giant and Red Hill Uranium Targets

- Calcrete-Type uranium mineralisation in carbonate (limestone) host
- Up to 2m @ 411ppm  $U_3O_8$  in drilling
- Trench assays up to 895ppm  $U_3O_8$
- Untested VTEM anomalies spanning >35km strike length

The Ben Hur, Giant and Red Hill prospects exhibit Calcrete-Type uranium mineralisation overlying Devonian carbonate sediments of the Gneudna Formation. The mineralisation style is similar to the Calcrete-Type deposits of Jailor Bore and Baltic Bore but with wide stratigraphic control, as such there is potential for thicker mineralisation over greater strike extents.

The project area was first explored by Uranerz Pty Ltd in 1974 who reported trench samples up to 850ppm  $U_3O_8$  at the Giant-Red Hill region.<sup>ii</sup> Previous rock chips, by Newera Resources (2008), confirmed the presence of uranium mineralisation in carnotite at the Ben Hur prospect.

During 2008-2010, VTEM surveys and interpretation completed by Newera Resources returned a series of conductive anomalies spanning over 35km strike of the Devonian Gneuda Formation and overlying Cretaceous units. These anomalies are yet to be fully tested and represent potential paleochannel-hosted Roll Front-Type targets within the Cretaceous units, as well as Roll Front/Tabular-Type targets within the Devonian (Figure 13).

Newera Resources conducted drilling during 2011 at the Giant-Red Hill Prospects and reported intersections up to 2m @ 411ppm  $U_3O_8$  from 4m, with 64 drill holes generated 69 significant intersections above 100ppm  $U_3O_8$  (Newera Resources annual report 2011-12).





**Table 6: Significant intercepts at Giant and Red Hill. Coordinates in GDA94 Zone 50S. Newera Resources.**

| Hole Details |           |      |         |          | Significant Intercept |        |           |                                     |
|--------------|-----------|------|---------|----------|-----------------------|--------|-----------|-------------------------------------|
| Hole ID      | Depth (m) | Type | Easting | Northing | From (m)              | To (m) | Width (m) | U <sub>3</sub> O <sub>8</sub> (ppm) |
| GTRC004      | 70        | RC   | 319686  | 7343343  | 1                     | 3      | 2         | 157                                 |
| GTRC005      | 110       | RC   | 319849  | 7343358  | 1                     | 3      | 2         | 229                                 |
| GTRC007      | 100       | RC   | 320161  | 7343364  | 6                     | 7      | 1         | 129                                 |
| GTRC019      | 20        | RC   | 320085  | 7340486  | 2                     | 4      | 2         | 158                                 |
| GTRC020      | 20        | RC   | 320238  | 7340492  | 2                     | 3      | 1         | 103                                 |
| GTAC045      | No record | AC   | 320644  | 7340477  | 1                     | 6      | 5         | 282                                 |
| GTAC046      | No record | AC   | 320634  | 7340477  | 4                     | 6      | 2         | 222                                 |
| GTAC047      | No record | AC   | 320624  | 7340477  | 4                     | 6      | 2         | 411                                 |
| GTAC060      | No record | AC   | 320492  | 7340476  | 4                     | 5      | 1         | 336                                 |
| GTAC061      | No record | AC   | 320482  | 7340476  | 2                     | 3      | 1         | 210                                 |
| GTAC064      | No record | AC   | 320452  | 7340478  | 1                     | 3      | 2         | 373                                 |
| GTAC128      | No record | AC   | 320646  | 7339838  | 2                     | 5      | 3         | 251                                 |
| GTAC129      | No record | AC   | 320635  | 7339838  | 3                     | 7      | 4         | 221                                 |
| GTAC134      | No record | AC   | 320585  | 7339838  | 1                     | 2      | 1         | 238                                 |
| GTAC177      | No record | AC   | 320120  | 7339838  | 1                     | 3      | 2         | 238                                 |

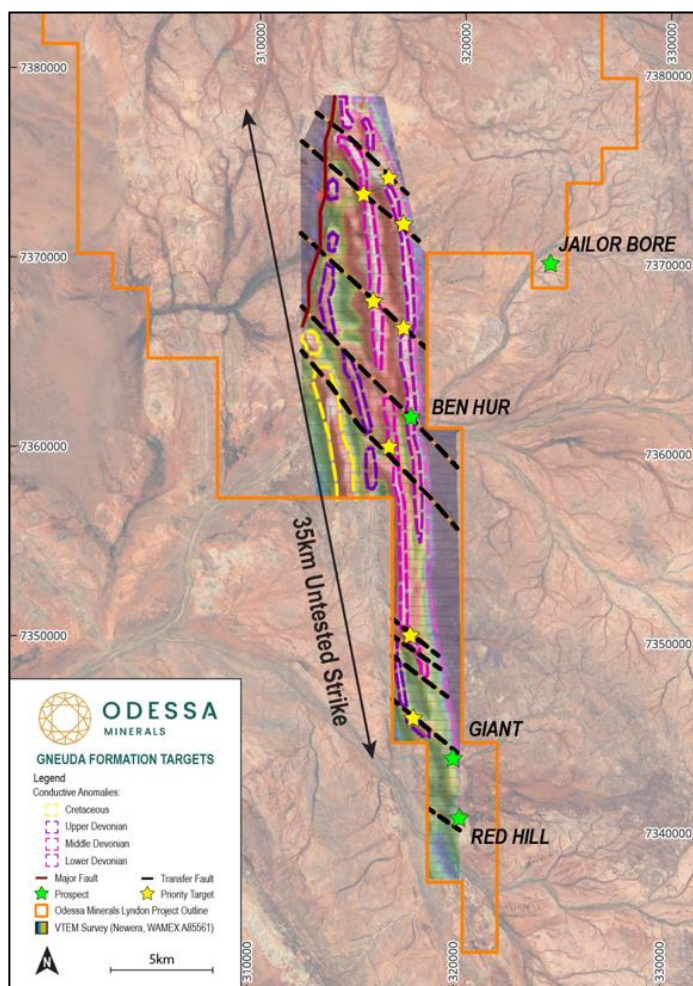


Figure 13: VTEM imagery overlain with interpreted conductive anomalies and faults, with priority targets displayed relative to known prospects. Modified after Newera Resources.



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**Relief Well Uranium Project – Further Exploration Potential:**

Re-processing of the 2007 Newera Uranium Ltd VTEM survey data has confirmed the presence of a palaeochannel at the Relief Well prospect with a strike length of >8km that remains open to the south (Figure 13). Depth-slice analysis of re-processed VTEM imagery has delineated the deepest portions of the palaeochannel that are most likely to host significant roll front-type uranium mineralisation.

Relief Well is directly along strike and an upstream extension of the palaeochannel that is host to Paladin Energy’s Carley Bore 15.6MLbs U<sub>3</sub>O<sub>8</sub> resource (Figure 15). Stratigraphy is interpreted to consist of the Birdrong Sandstone of the Winning Formation with interfingering shale units that act as an aquitard ‘trap’ for roll front-type uranium mineralisation.

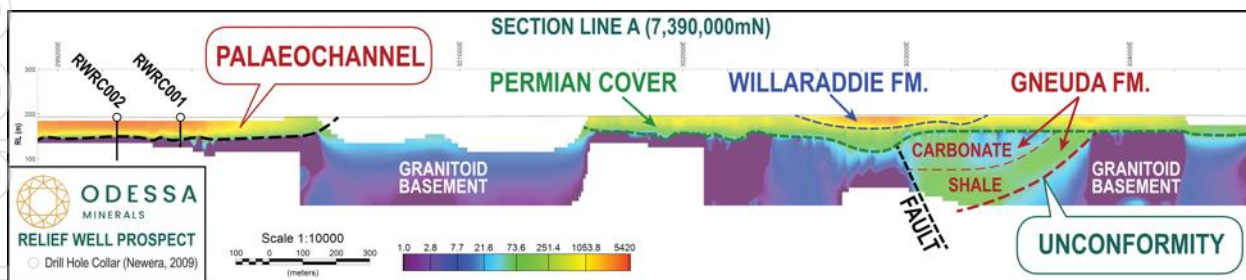


Figure 14: Conductivity Cross Section through Relief Well Palaeochannel. Newera drill holes displayed.

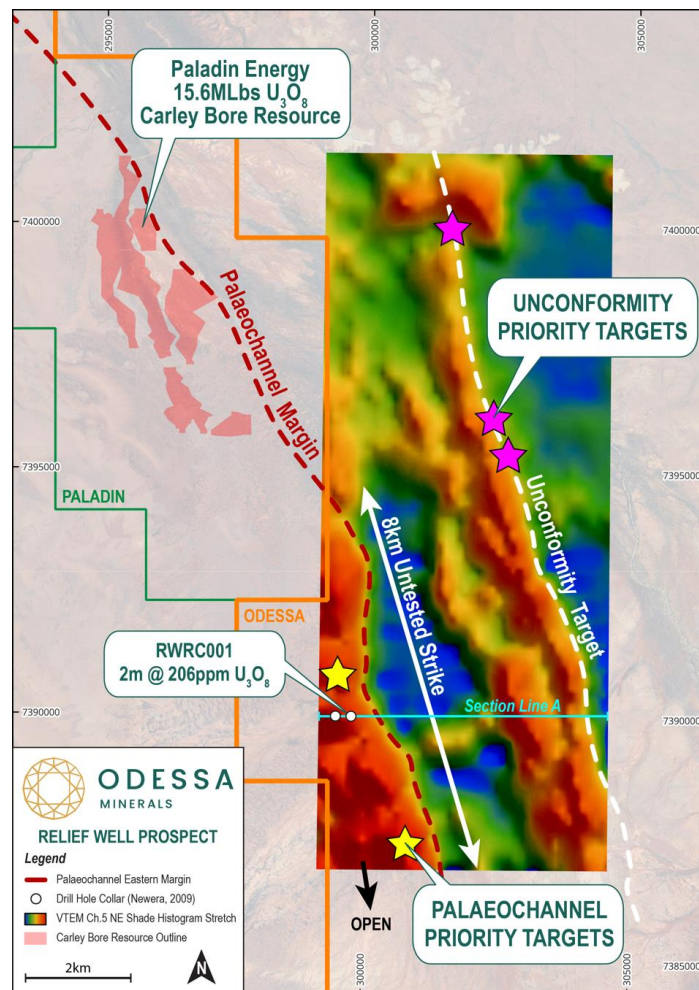


Figure 15: Relief Well Prospect interpreted palaeochannel extension from the Carley Bore Uranium Deposit. Newera drill holes displayed.





## Next Steps for Lyndon Uranium Exploration

Following these outstanding first-pass rock chip results, systematic gridded radiometric ground surveying will be conducted across all radiometric targets. The resultant high-resolution radiometric data will facilitate drill planning to be undertaken in Q3, in conjunction with the palaeochannel roll-front uranium targets at the Relief Well prospect. Given the particularly exceptional results at the southern Baltic Bore targets, additional surveying and sampling of the remaining Baltic Bore targets and regional uranium radiometric anomalies across Lyndon will be undertaken as a priority.

The Company will now proceed with drill planning and seek approvals from both the Native Title parties and the Department to conduct drilling at the Relief Well prospect.

Newera Uranium Ltd completed two RC holes (prefix RWRC) to test the VTEM palaeochannel anomaly during 2008-2009, confirming the presence of uranium mineralisation as well as shale horizons within the palaeochannel, ranging from 10m to 50m in thickness. Since then, no further drilling was undertaken to test the remaining 8km trend.

First-pass drilling by Odessa will be conducted in transverses to locate REDOX boundaries within the palaeochannel, with a particular focus on the deepest portions of the palaeochannel. Upon review of the results of first-pass reconnaissance drilling, infill drilling will be required to map the extents of REDOX boundaries and continuity of the shale 'trap' horizons throughout the palaeochannel. Any discovered roll-front uranium mineralisation will be systematically tested during infill drilling.

Systematic drilling along the contact between the Gneuda Formation and the underlying Durlacher and Moorarie Supersuites is required to map out the location of the unconformity and hydrothermal alteration that may indicate the presence of uranium mineralisation.

Additional VTEM surveying is required to map out the full extents of the palaeochannel along strike to the south and to the west where the paleochannel remains open but has not been surveyed to date.

## Gascoyne East Project

The Gascoyne East Project consists of 2,108km<sup>2</sup> of exploration licences and covers the southern margin of the Edmund Basin and metamorphic core of the Proterozoic Capricorn Orogen. The Project encompasses the confluence of major, metal-endowed trans-lithospheric structural corridors (including the Ti-Tree, Errabiddy, Chalba, Cardilya, Mt Clere and Hibernian South Fault/Shear zones), offering favourable fluid conduits spanning multiple, overprinting metal-endowed events.

The Project is transected by a recently interpreted deep crustal stability edge that is a focus for mantle-derived fluid upwelling and heat-driven hydrothermal processes. These tectonic edges are associated with **85% of large-scale sediment-hosted base metal deposits globally** and is strongly correlated with porphyry, IOCG and Pb-Zn deposits.

Critically, the basement lithologies pre-date known lithium pegmatite and rare earth events, such as the Mutherbukin event (carbonatites) and Edmundian Orogeny (Yinnetharra LCT pegmatites). As such, the Project offers a unique geological setting of multiple metal-rich structural events converging at the location. Successful exploration has been conducted across the broader region, yet the Gascoyne East Project has remained relatively unexplored.



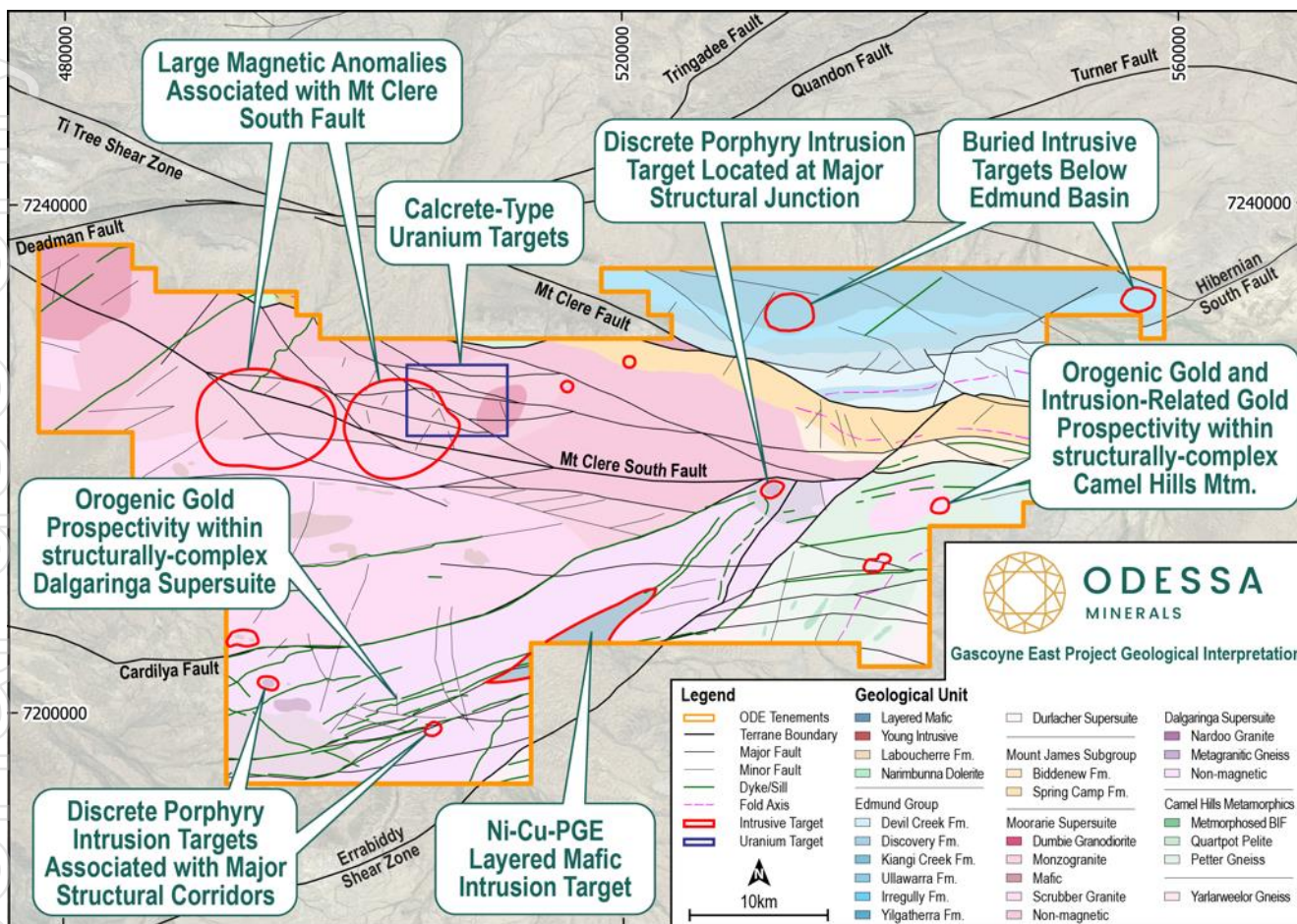


Figure 16: Interpreted bedrock geology with key intrusion and uranium targets outlined.

## Exploration Plan

### Target Generation

The Gascoyne East Project is one of the most under-explored areas of the emergent Gascoyne Province. Due to being almost entirely concealed under a thin veneer of transported cover, previous explorers have largely overlooked the area encapsulated by Odessa's Gascoyne East Project, despite multiple mantle-tapping structures transecting the Project along strike from known mineralisation.

Odessa has now completed initial target generation through detailed litho-structural interpretation of the recently acquired airborne gradiometer-magnetic and radiometric data (Figure 16).

Multiple intrusion-related targets have been highlighted across the Project, including a layered mafic intrusive in the south, that is prospective for Ni-Cu-PGE, large-scale intrusions that are prospective for IOCG mineralisation, multiple discrete porphyry Cu-Au targets throughout the region, and base metal targets within the Edmund Basin.

Additionally, several uranium anomalies have been highlighted by radiometric survey data across the Project, coincident with calcrete deposits mantling fault structures, within an outcrop of the Moorarie Supersuite granite, a potential host to uranium and REE carbonatite mineralisation (Figure 17).





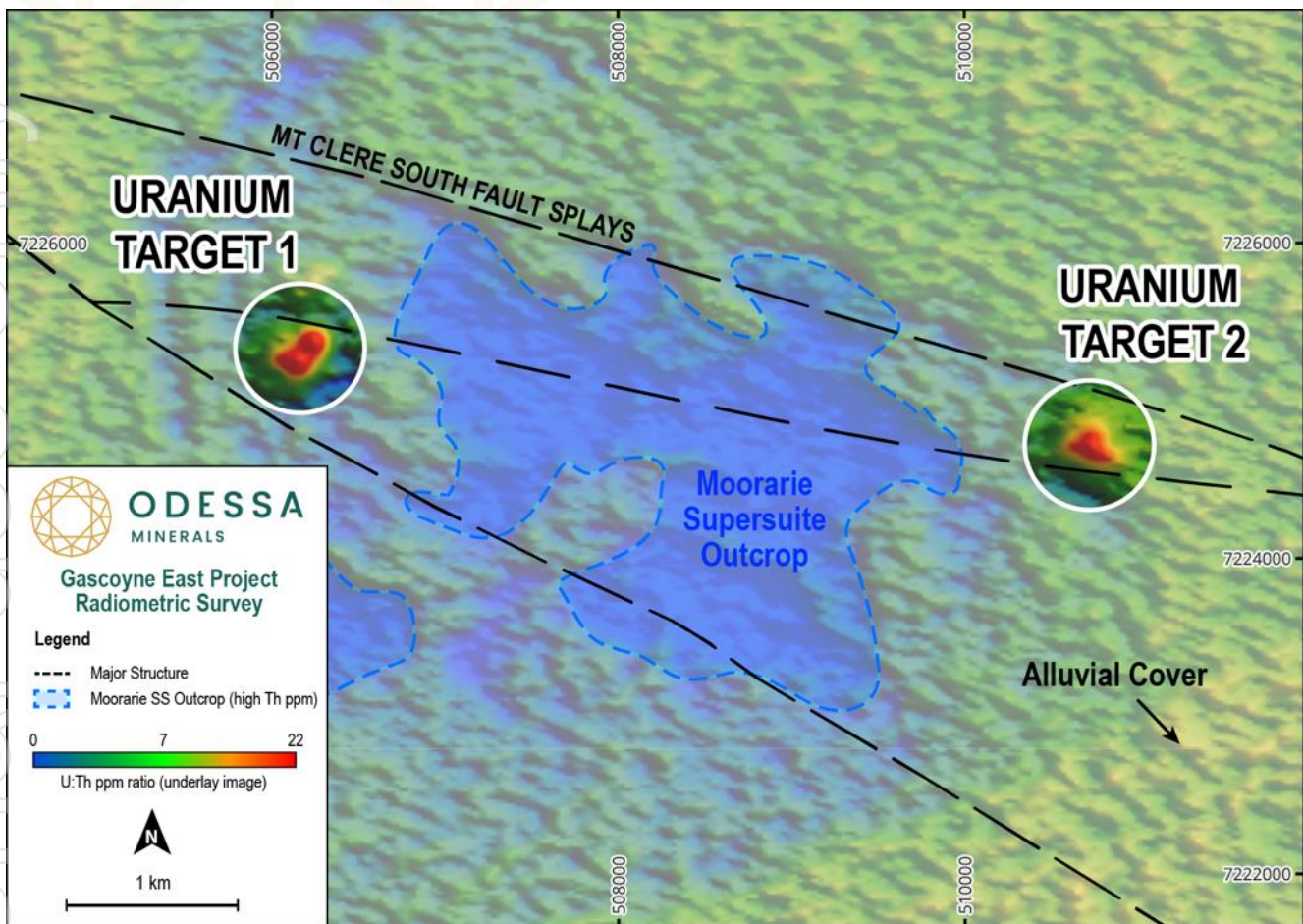


Figure 17: Radiometric uranium targets mantling fault splays of the Mt Clere Fault System.

## Aircore Drilling

With no previous drilling and a lack of exposure, the basement lithologies remain almost entirely inferred from geophysical datasets. As such, a mineral systems-based approach to exploration at the Project is required to build up high-quality regional datasets that can inform targeted and impactful exploration across the highly prospective Project. As the company has now completed acquisition and interpretation of high resolution magnetic and radiometric data, drilling is required to confirm and update current interpretations.

Phase 1 aircore drilling is planned predominantly along existing tracks with hole spacings ranging from 200m to 400m. This round of drilling aims to intercept basement lithologies in fresh rock below the transported cover material to validate the litho-structural basement geology interpretation of geophysical data (Figure 1), as well as test key structural corridors and intrusive target features. Bottom-of-hole core of fresh rock will be collected to conduct petrographical and petrophysical analysis alongside multi-element geochemical characterisation of lithologies.

Upon completion of Phase 1 drilling, the basement geology model will be updated, and targets re-ranked accordingly for follow-up Phase 2 drill testing for mineralisation at depth associated with intrusion-related systems.

The Company has received PoW approval from the Department of Energy, Mines, Industry Regulation and Safety (DEMIRS) to conduct air core drilling across the Project as part of the Phase 1 drill campaign scheduled to commence in June 2024.







## Mapping and Sampling

Though the majority of the tenure is covered by transported material, a portion of the Edmund Basin carbonates in the northeast are partially exposed. According to Open File data, no work has ever been completed across the exposures.

Odessa will conduct systematic mapping and rock chipping of the carbonate sequence for sedimentary-hosted base metal potential, as well as sampling of quartz veining and sheared outcrops associated with the Hibernian South fault that is host to the Mt Edgerton Gold Deposit located 20km along strike.

First-pass rock chipping will also be conducted across the two radiometric uranium anomalies (Figure 2) to assess the tenor of anomalism, confirm the deposit style, and evaluate the link between the Mt Clere South Fault system and uranium mineralisation.

## Gravity Surveying

Detailed gravity surveying is being considered across the Camel Hills Metamorphic sequence to delineate the contacts between the Quartpot pelite, Petter calc-silicate gneiss and BIF units.

The Camel Hills Metamorphics are interpreted to be folded and later transected by the confluence of the Errabiddy Shear Zone, the Mt Clere South Fault and the Hibernian South Fault. The strong rheological contrasts created by the interbedded units, iron-rich BIF and mafic chemical traps, dilation generated by folding/shearing, and the fluid conduits provided by shearing and faulting, highlight the southeastern portion of the Project as an excellent prime target for orogenic gold mineralisation.

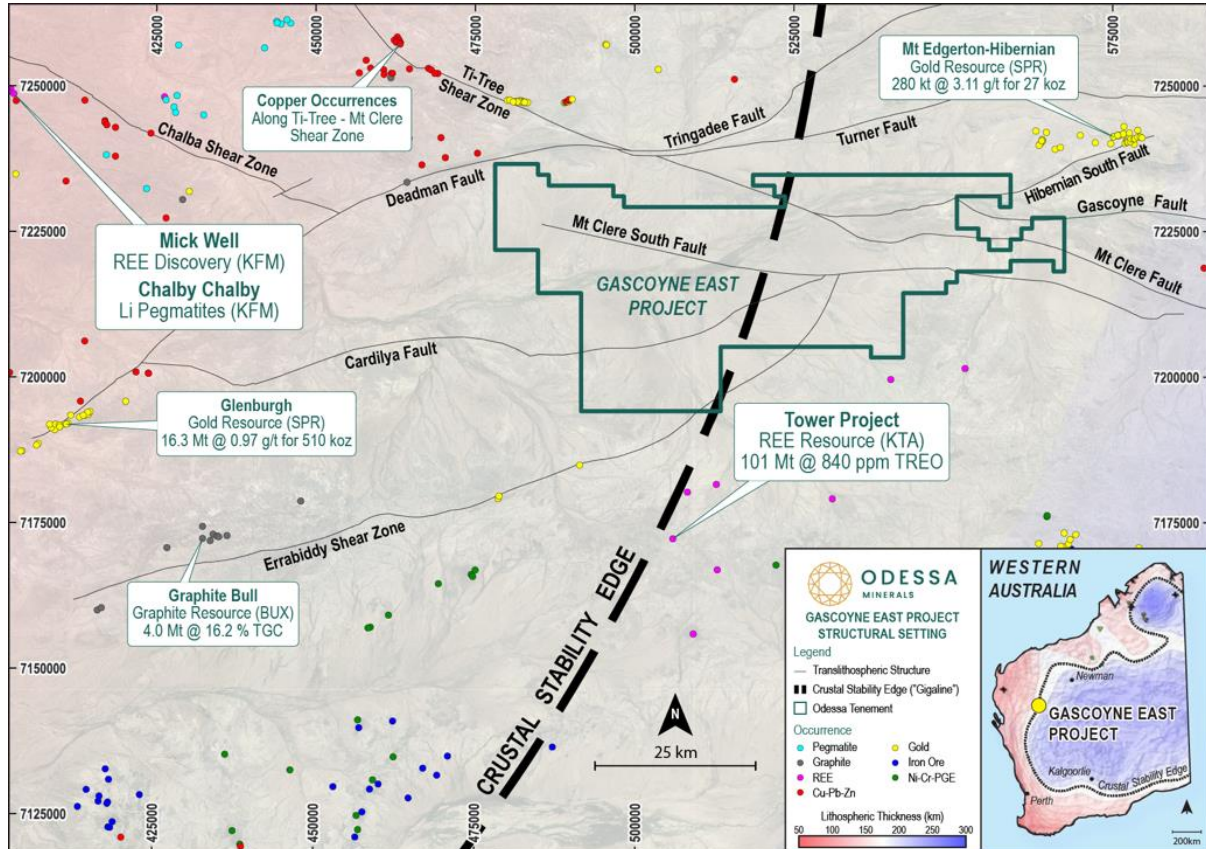


Figure 18: Structural architecture across the Gascoyne East Project, showing the confluence of major mineral-endowed shear zones (GSWA), faults and the crustal stability edge (Czarnota et al., 2019) relative to mineral occurrences (Minedex).





## Yinnetharra Lockier Range Lithium Project

- **Drilling at the Project will test areas where feldspar K/Rb ratios highlight pegmatite fractionation trends vectoring undercover**
- **Coherent anomalous in-soil lithium-pegmatite trends for drill targeting:**
  - **4km x 2km** Li-Cs-Ta-Be-Rb-Bi anomaly adjacent to pegmatites at Robinson Bore
  - **2.7km x 2km** Li-Cs-Ta-Be anomaly across the blind pegmatites of the Eastern Field
- **Highly-elevated lithium-pegmatite pathfinders in rock chips, with peak results including:**
  - 1,911ppm Li<sub>2</sub>O (22 samples above 500ppm)
  - 259ppm Ta<sub>2</sub>O<sub>5</sub> (5 samples above 100ppm)
  - 712ppm Cs<sub>2</sub>O (18 samples above 100ppm)
  - 8,245ppm BeO (9 samples above 100ppm)
  - 2,728ppm Rb (7 samples above 2,000ppm)

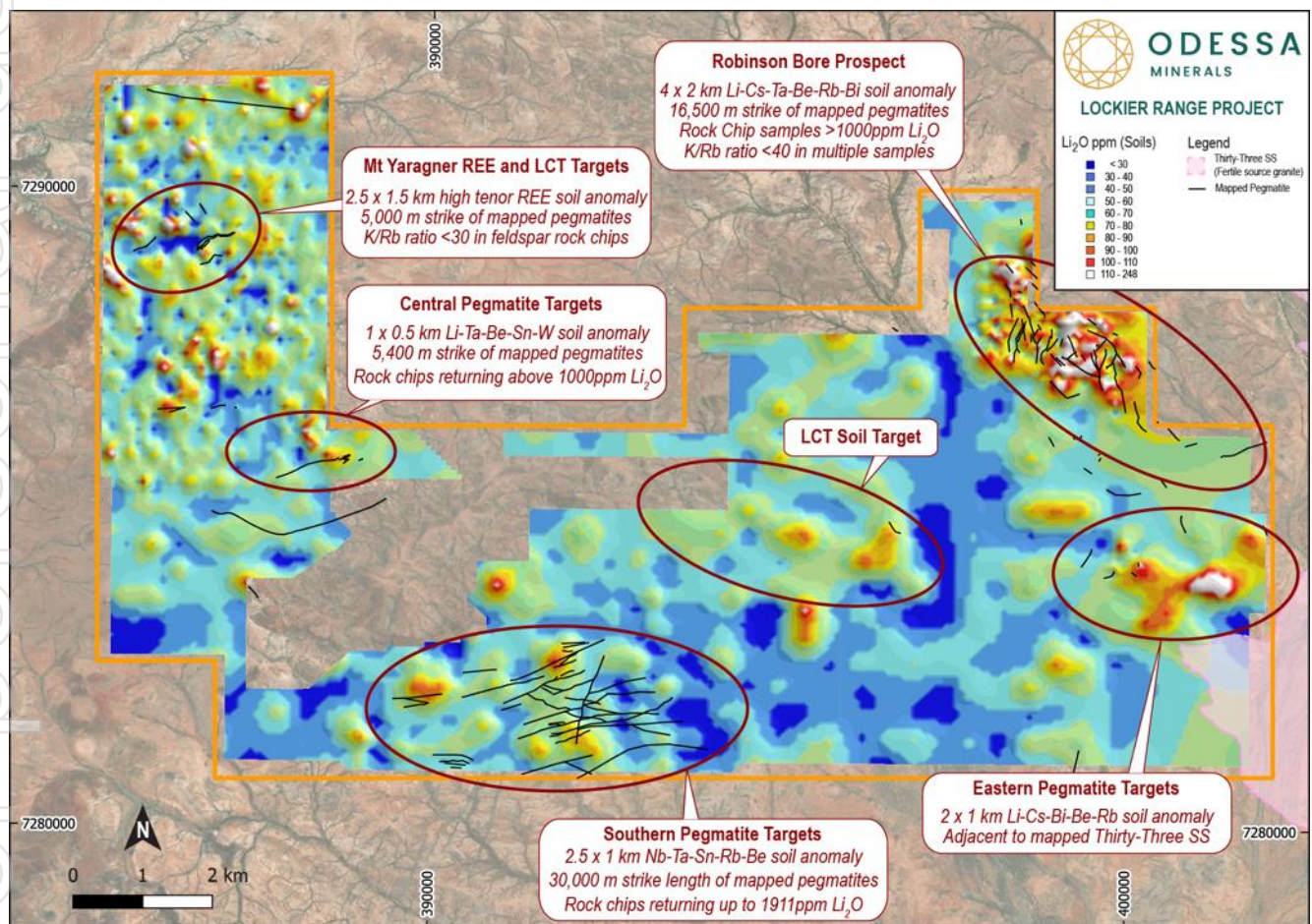


Figure 19: Principal pegmatite target areas within the Lockier Range Project underlain by gridded soil results coded by Li<sub>2</sub>O ppm.





## Lockier Range Project

### Heritage Survey

Following the promising results of the 2023 field campaigns that generated drill targets at the Yinnetharra Lockier Range Project, the Company proceeded to seek the required Heritage clearances. However, Surveys are not undertaken during the summer months due to >40 degree temperatures in the Gascoyne Region.

A Heritage Survey details (scope and schedule) still remains to be finalised at the time of publishing this update. When the survey does commence, it will seek clearances across the LCT pegmatite targets, with follow-up RC drilling to commence thereafter.

Pending PoW approval and Heritage Clearance, drilling will focus on the Robinson Bore and Eastern Pegmatite Field, where K/Rb ratios within feldspar rock chip samples show fractionation trends vectoring under cover, accompanied by pathfinder soil anomalies.

### Robinson Bore Lithium-Pegmatite Targets

Surface sampling at Robinson Bore has successfully identified a coherent 4km x 2km northwest-trending Li-Cs-Ta-Be-Rb-Bi in-soil anomaly, coincident with a 2.5km-long northwest-trending corridor of fractionated pegmatites (Figure 20).

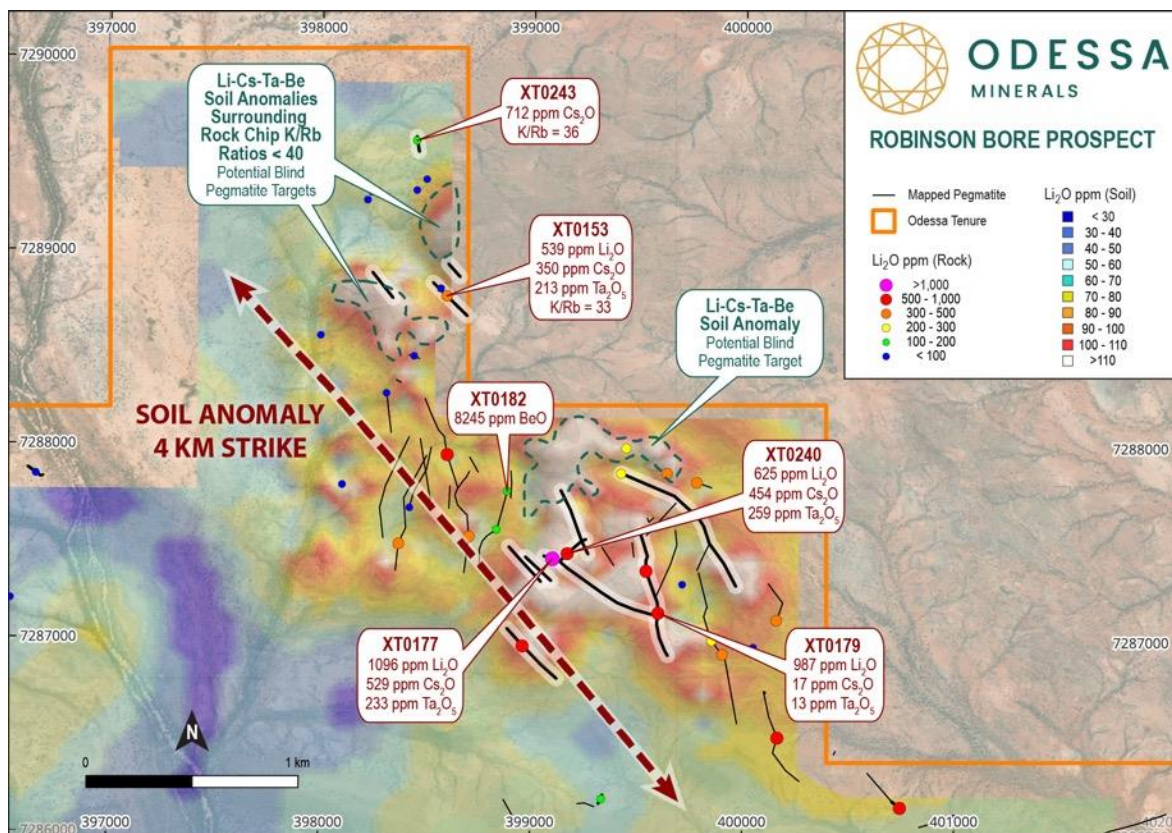


Figure 20: All rock chip samples across the Robinson Bore Prospect coded by Li<sub>2</sub>O ppm underlain by gridded soil results coded by Li<sub>2</sub>O ppm. Pegmatite targets and anomalous pathfinders highlighted.







The majority of pegmatites at Robinson Bore sub-crop, with vast areas concealed by cover material. Rock chip results from the pegmatite sub-crops in this region have returned favourable K/Rb ratios  $< 40$ ,  $\text{Cs}_2\text{O}$  up to 712ppm,  $\text{Ta}_2\text{O}_5$  up to 259ppm, and BeO up to 8,245ppm.

Drilling at Robinson Bore will focus on areas where soil anomalies coincide with fractionated pegmatites heading undercover, targeting for highly fractionated blind pegmatites.

### Eastern Field Lithium-Pegmatite Targets

Field mapping and sampling at the Eastern Field pegmatite targets has generated a 2.7km x 2km Li-Cs-Ta-Be in-soil anomaly that is 800m from the margin of the fertile source granite, the Thirty Three Supersuite (Figure 21).

At present, the soil anomaly is unexplained due to a lack of outcropping pegmatites in the region. Drilling at the Eastern Target will aim to test for blind fractionated pegmatites related to the Thirty Three supersuite, in an analogous spatial position to Delta Lithium's Yinnetharra LCT Pegmatite resource.

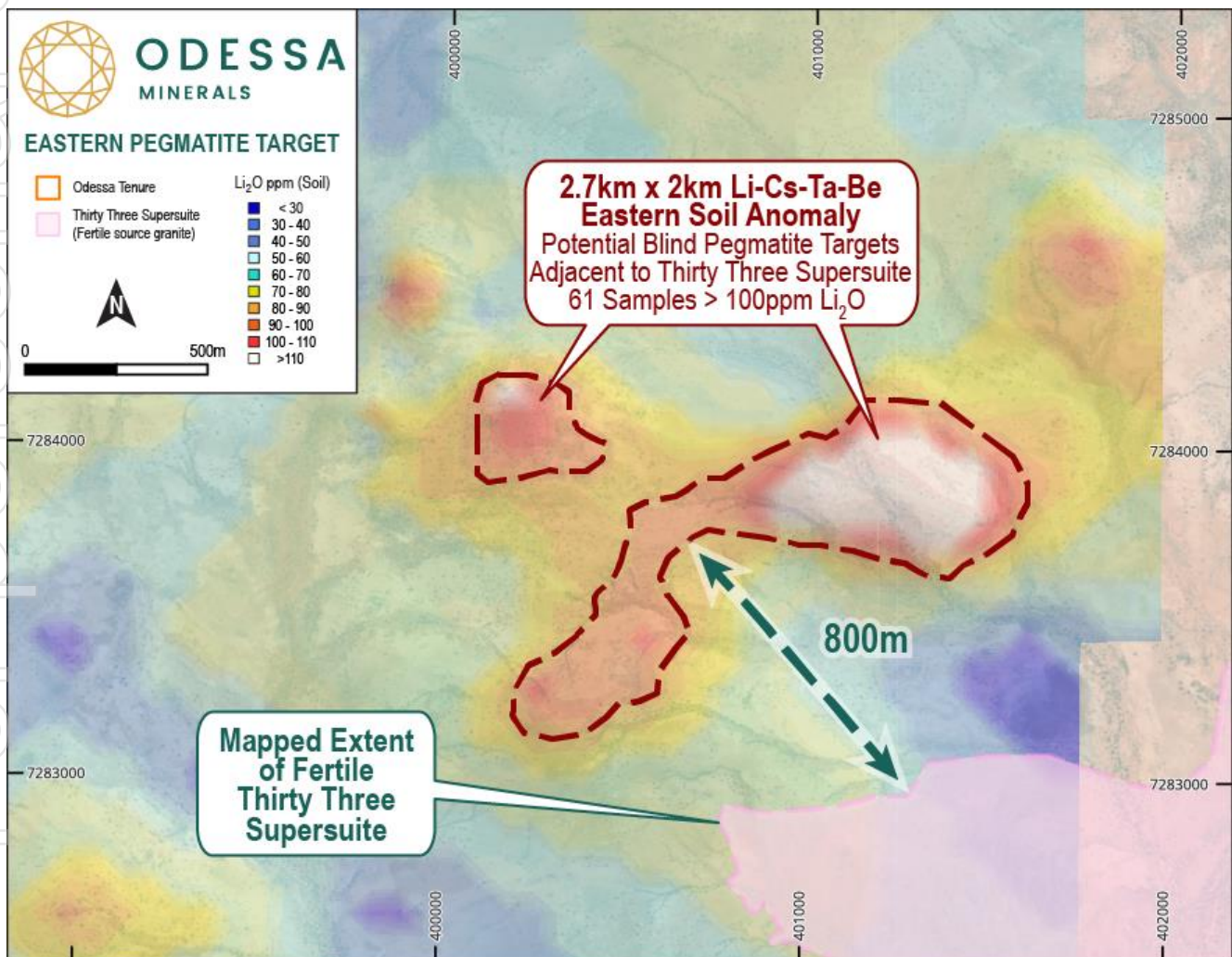


Figure 21: Gridded soil results coded by Li<sub>2</sub>O ppm, highlighting the Eastern Field anomaly 800m from the margin of the source granite.





### Additional Targets

Rock chip results from the remainder of the Project have provided additional targets for both lithium and REEs. These targets are to be tested at a later date pending results from initial drilling at Robinson Bore and the Eastern Field.

### Central Pegmatite Field Targets

The Central Field consists of 5,400m strike length of pegmatites that plunge undercover to the southwest. Rock chip results from the area returned five results above 500ppm Li<sub>2</sub>O.

Soil sample results highlighted a coherent 1.0km x 0.5km Li-Ta-Be-Sn-W anomaly adjacent to the mapped pegmatites, representing targets for blind LCT pegmatites (Figure 22).

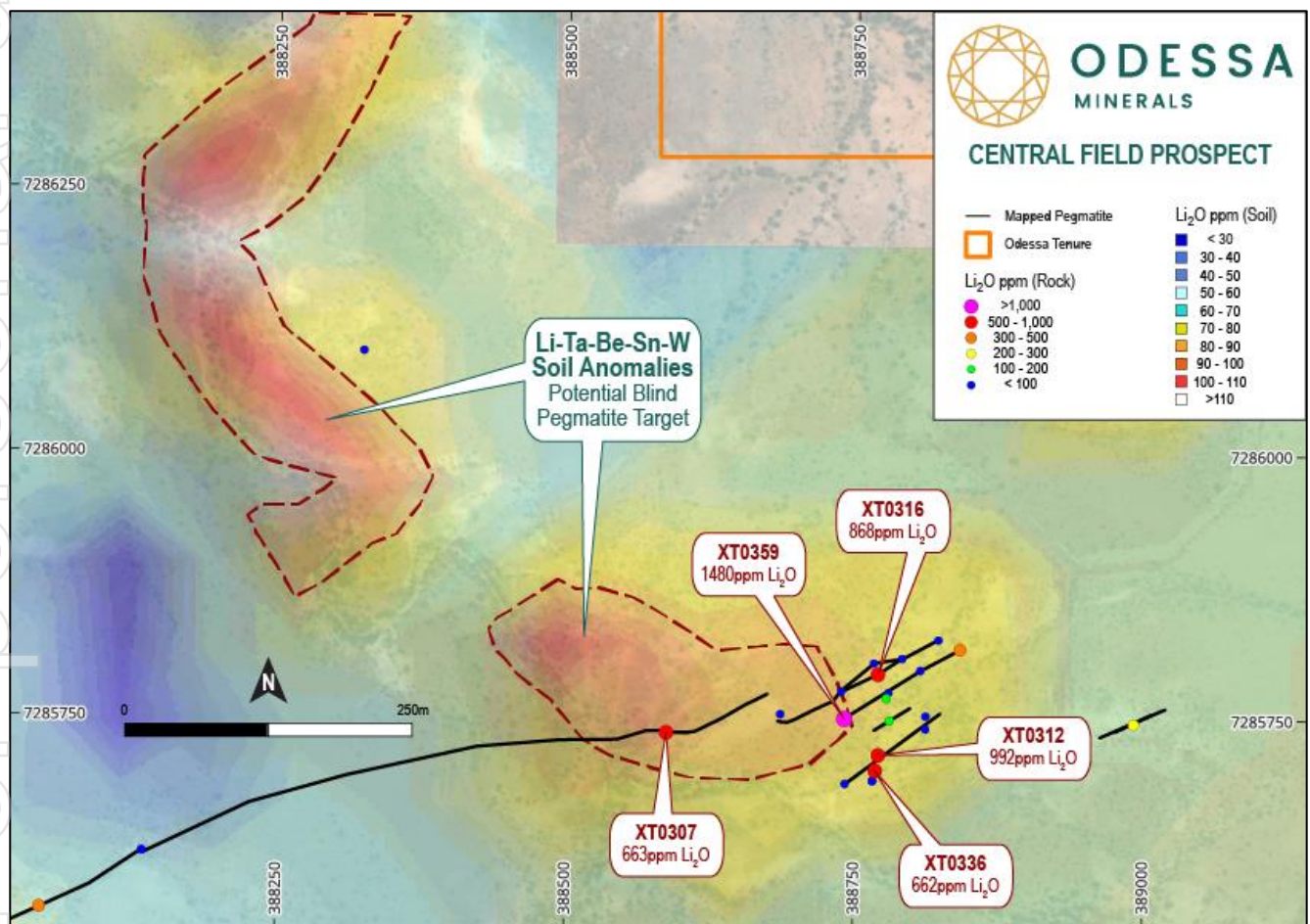


Figure 22: Rock chip samples across the Central Pegmatite Field Prospect coded by Li<sub>2</sub>O ppm underlain by gridded soil results coded by Li<sub>2</sub>O ppm. Pegmatite targets and anomalous in-soil pathfinders are highlighted.

### Southern Field LCT and REE Pegmatite Targets

The Southern Pegmatite Field consists of two sets of cross-cutting pegmatites within a 2.5km x 1km Nb-Ta-Sn-Rb-Be in-soil anomaly. The highest Li-in-rock results across the project are located within the centre of the







Southern Pegmatite Field, with four rock chips returning values >1,000ppm Li<sub>2</sub>O and a peak result of 1,911ppm Li<sub>2</sub>O (Figure 23).

The Southern Pegmatite Field also returned ten rock chips with TREOY > 500ppm and a peak result of 3,499ppm (22% Nd+Pr) in rock chip XT0621. As such, the prospect offers a multi-commodity target for critical elements within pegmatites.

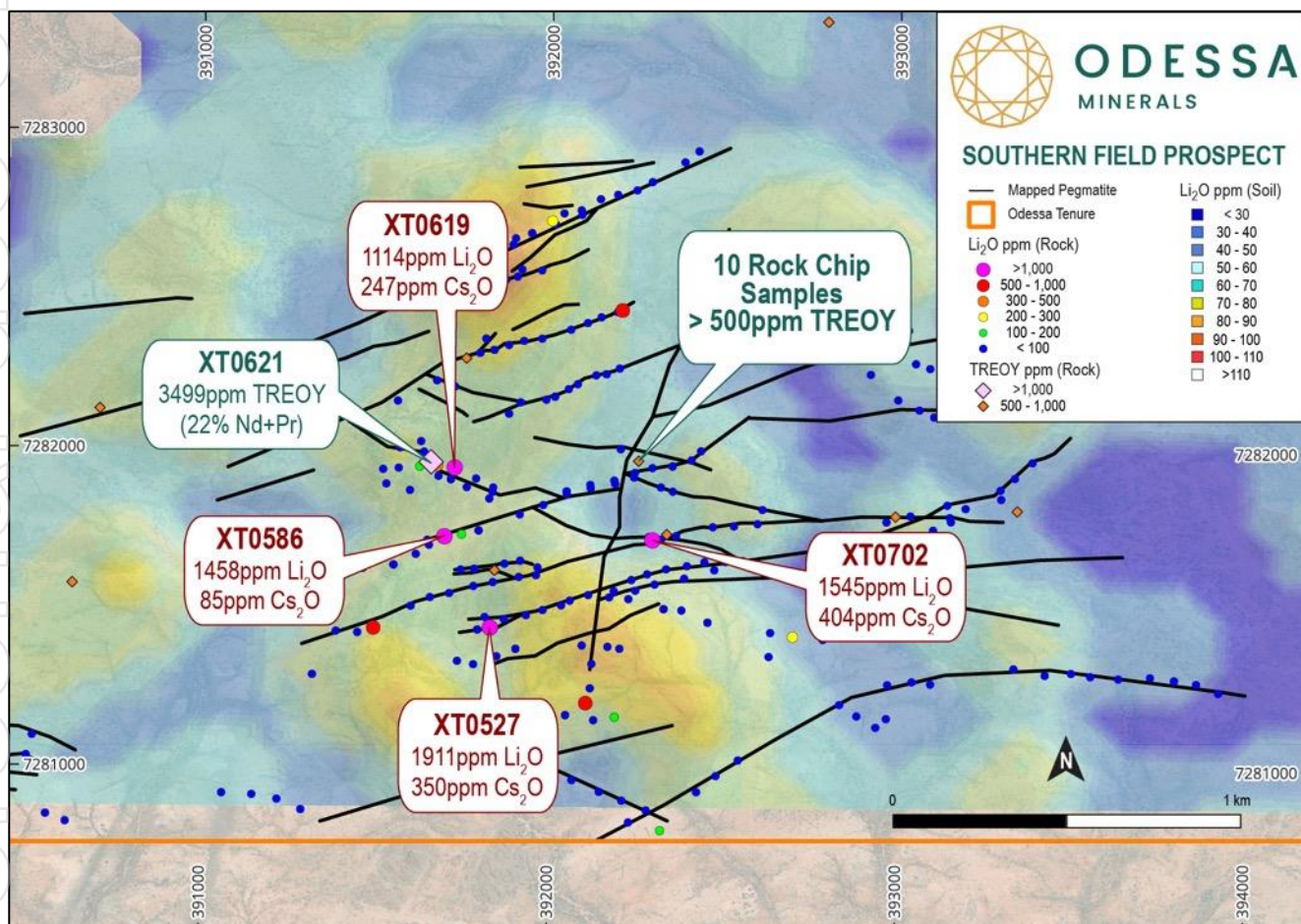


Figure 23: Rock chip samples across the Southern Pegmatite Field Prospect coded by Li<sub>2</sub>O ppm (circles) and TREOY ppm (diamonds) underlain by gridded soil results coded by Li<sub>2</sub>O ppm. Key rock chips highlighted.

### Mt Yaragner Pegmatites and Carbonatite Targets

Mt Yaragner is host to some of the most fractionated pegmatites within the Project. Rock chip samples returned K/Rb ratios as low as 28.5, with coincident highly anomalous Cs<sub>2</sub>O (357ppm) and Rb<sub>2</sub>O (2,721ppm) in rock chip sample XT0295 (Figure 24).

In addition, Mt Yaragner offers potential for REE-carbonatite mineralisation. An extensive 5km x 2km highly anomalous REE in-soil anomaly is present, coincident with a high-tenor radiometric Thorium anomaly associated with ironstones that have returned rock chips up to 1,379ppm TREOY (Figure 25).





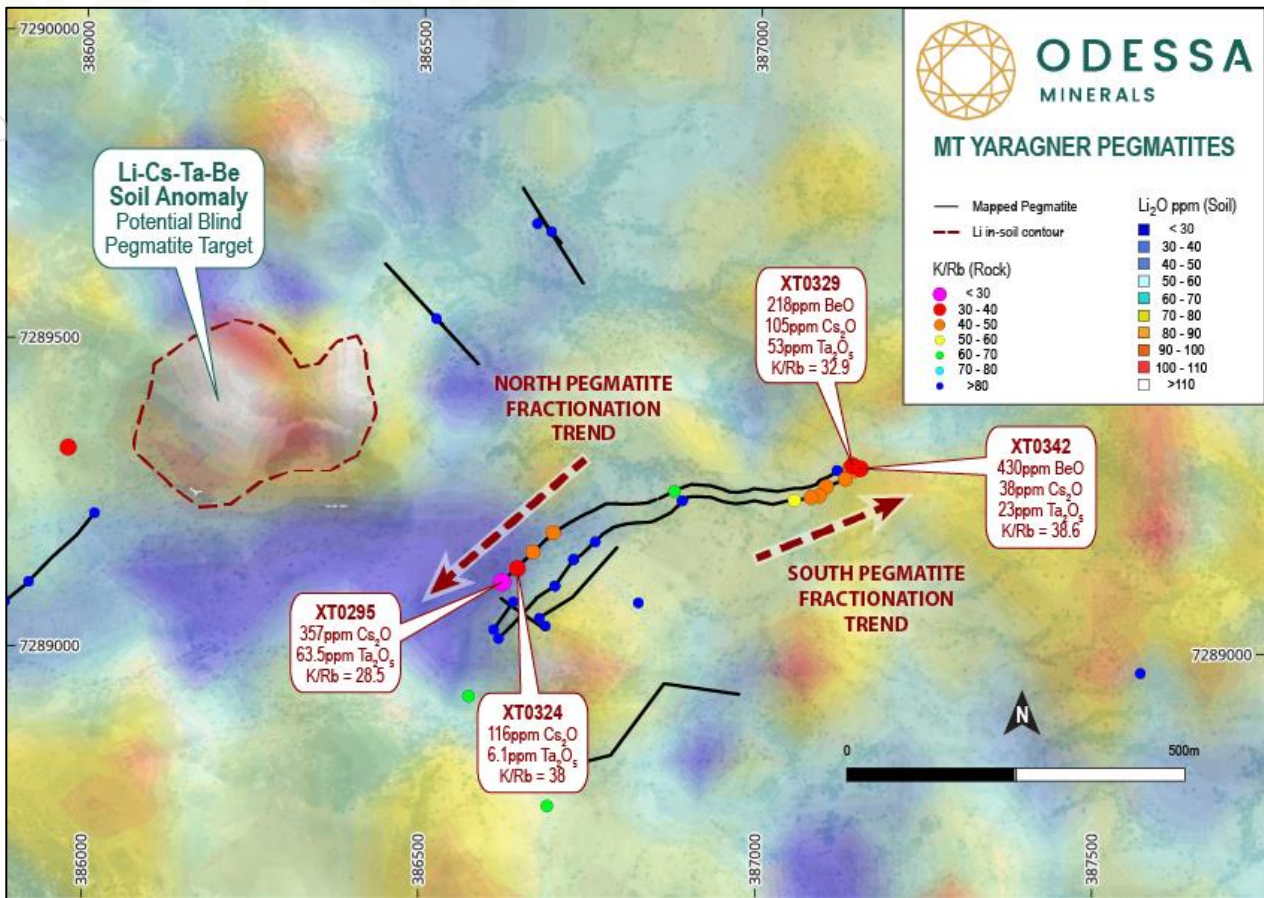


Figure 24: Rock chip samples at Mt Yaragner coded by K/Rb ratios underlain by gridded soil results coded by Li<sub>2</sub>O ppm.

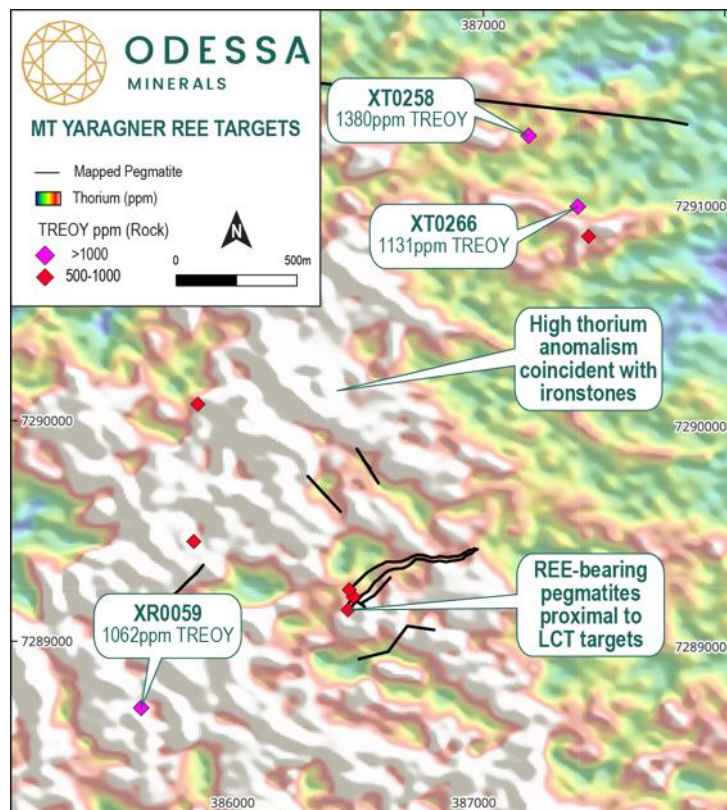


Figure 25: Rock chip samples at Mt Yaragner coded by TREOY ppm underlain by Th-band radiometric imagery.

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## Kimberley Diamond Assets

No on ground activity this quarter.

## CORPORATE

### Related Party Payments

During quarter, the Company made payments of \$116,000 to related parties and their associates. These payments relate to the existing remuneration agreements for the Executive and Non-Executive Directors, as well as company secretarial and accounting services provided by director related entities.

## LIST OF TENEMENTS

| Project              | Tenement | Status      | Area (Km <sup>2</sup> ) | Comments                |
|----------------------|----------|-------------|-------------------------|-------------------------|
| <b>Lockier Range</b> |          |             |                         |                         |
| Noonie               | E09/2649 | Live        | 120                     |                         |
| <b>Lyndon</b>        |          |             |                         |                         |
| Ebra Bore Lyndon     | E08/3434 | Live        | 183                     |                         |
|                      | E09/2605 | Live        | 207                     |                         |
|                      | E08/3364 | Live        | 210                     |                         |
| Lyndon               | E09/2435 | Live        | 57                      |                         |
|                      | E08/3217 | Live        | 141                     |                         |
|                      | E09/2787 | Application | 29                      |                         |
|                      | E09/2938 | Application | 72                      |                         |
|                      | E09/2794 | Application | 18                      |                         |
| <b>Ellendale</b>     |          |             |                         |                         |
| Ellendale Air        | E04/2832 | Application | 15                      | Relinquished 31/01/2024 |
| Ellendale East       | E04/2830 | Application | 210                     | Relinquished 31/01/2024 |
| Ellendale North      | E04/2834 | Application | 138                     | Relinquished 31/01/2024 |
| Ellendale West       | E04/2833 | Application | 45                      | Relinquished 31/01/2024 |
| <b>Gascoyne East</b> |          |             |                         |                         |
| Gascoyne             | E52/4186 | Live        | 18                      |                         |
|                      | E52/4187 | Live        | 525                     |                         |
|                      | E52/4182 | Live        | 573                     |                         |
|                      | E52/4183 | Live        | 516                     |                         |
|                      | E52/4184 | Live        | 426                     |                         |
| <b>Aries</b>         |          |             |                         |                         |
| Aries East           | E80/5818 | Application | 87                      | Relinquished 31/01/2024 |
| Aries Main           | E80/5027 | Live        | 90                      |                         |
| Aries Northwest      | E80/5815 | Application | 339                     | Relinquished 31/01/2024 |





|                 |          |             |             |                         |
|-----------------|----------|-------------|-------------|-------------------------|
|                 | E80/5816 | Application | 261         | Relinquished 31/01/2024 |
|                 | E80/5819 | Application | 120         | Relinquished 31/01/2024 |
| Aries West      | E80/5817 | Application | 177         | Relinquished 31/01/2024 |
| <b>Beyondie</b> |          |             |             |                         |
| Beyondie NW     | E52/4322 | Application | 123         | Relinquished 27/03/2024 |
| <b>Total</b>    |          |             | <b>4700</b> |                         |

This announcement has been approved for release by the Board of Odessa Minerals.

## ENQUIRIES

**Zane Lewis – Chairman**  
[zlewis@odessaminerals.com.au](mailto:zlewis@odessaminerals.com.au)

**General enquiries:**  
[info@odessaminerals.com.au](mailto:info@odessaminerals.com.au)

**David Lenigas – Executive Director**  
[dlenigas@odessaminerals.com.au](mailto:dlenigas@odessaminerals.com.au)

Please visit our website for more information and to sign up to receive corporate news alerts:  
[www.odessaminerals.com.au](http://www.odessaminerals.com.au)





## Appendix 5B

### Mining exploration entity or oil and gas exploration entity quarterly cash flow report

Name of entity

Odessa Minerals Limited

ABN

99 000 031 292

Quarter ended ("current quarter")

31 March 2024

| Consolidated statement of cash flows |   | Current quarter<br>\$A'000 | Year to date (9<br>months)<br>\$A'000 |
|--------------------------------------|---|----------------------------|---------------------------------------|
| <b>1.</b>                            | <b>Cash flows from operating activities</b>           |                            |                                       |
| 1.1                                  | Receipts from customers                               | -                          | -                                     |
| 1.2                                  | Payments for  |                            |                                       |
|                                      | (a) exploration & evaluation                          | (6)                        | (26)                                  |
|                                      | (b) development                                       | -                          | -                                     |
|                                      | (c) production  | -                          | -                                     |
|                                      | (d) staff costs                                       | -                          | -                                     |
|                                      | (e) administration and corporate costs                | (292)                      | (691)                                 |
| 1.3                                  | Dividends received (see note 3)                       | -                          | -                                     |
| 1.4                                  | Interest received                                     | 8                          | 33                                    |
| 1.5                                  | Interest and other costs of finance paid              | -                          | -                                     |
| 1.6                                  | Income taxes paid                                     | -                          | -                                     |
| 1.7                                  | Government grants and tax incentives                  | -                          | -                                     |
| 1.8                                  | Other (provide details if material)                   | -                          | -                                     |
| <b>1.9</b>                           | <b>Net cash from / (used in) operating activities</b> | <b>(290)</b>               | <b>(684)</b>                          |
| <b>2.</b>                            | <b>Cash flows from investing activities</b>           |                            |                                       |
| 2.1                                  | Payments to acquire:                                  |                            |                                       |
|                                      | (a) entities  | -                          | -                                     |
|                                      | (b) tenements   | -                          | -                                     |
|                                      | (c) property, plant and equipment                     | -                          | -                                     |
|                                      | (d) exploration & evaluation                          | (390)                      | (1,292)                               |
|                                      | (e) investments                                       | -                          | -                                     |
|                                      | (f) other non-current assets                          | -                          | -                                     |

## Mining exploration entity or oil and gas exploration entity quarterly cash flow report

| Consolidated statement of cash flows |   | Current quarter<br>\$A'000 | Year to date (9<br>months)<br>\$A'000 |
|--------------------------------------|---|----------------------------|---------------------------------------|
| 2.2                                  | Proceeds from the disposal of:  |                            |                                       |
|                                      | (a) entities  | -                          | -                                     |
|                                      | (b) tenements   | -                          | -                                     |
|                                      | (c) property, plant and equipment   | -                          | -                                     |
|                                      | (d) investments   | -                          | -                                     |
|                                      | (e) other non-current assets  | -                          | -                                     |
| 2.3                                  | Cash flows from loans to other entities   | -                          | -                                     |
| 2.4                                  | Dividends received (see note 3)   | -                          | -                                     |
| 2.5                                  | Other (provide details if material)   | -                          | -                                     |
| <b>2.6</b>                           | <b>Net cash from / (used in) investing activities</b>                                   | <b>(390)</b>               | <b>(1,292)</b>                        |
| <b>3.</b>                            | <b>Cash flows from financing activities</b>   |                            |                                       |
| 3.1                                  | Proceeds from issues of equity securities (excluding convertible debt securities)       | -                          | -                                     |
| 3.2                                  | Proceeds from issue of convertible debt securities                                      | -                          | -                                     |
| 3.3                                  | Proceeds from exercise of options   | -                          | -                                     |
| 3.4                                  | Transaction costs related to issues of equity securities or convertible debt securities | -                          | (6)                                   |
| 3.5                                  | Proceeds from borrowings  | -                          | -                                     |
| 3.6                                  | Repayment of borrowings   | -                          | -                                     |
| 3.7                                  | Transaction costs related to loans and borrowings                                       | -                          | -                                     |
| 3.8                                  | Dividends paid  | -                          | -                                     |
| 3.9                                  | Other (provide details if material)   | -                          | -                                     |
| <b>3.10</b>                          | <b>Net cash from / (used in) financing activities</b>                                   | <b>-</b>                   | <b>(6)</b>                            |
| <b>4.</b>                            | <b>Net increase / (decrease) in cash and cash equivalents for the period</b>            |                            |                                       |
| 4.1                                  | Cash and cash equivalents at beginning of period  | 3,222                      | 4,524                                 |
| 4.2                                  | Net cash from / (used in) operating activities (item 1.9 above)                         | (290)                      | (684)                                 |
| 4.3                                  | Net cash from / (used in) investing activities (item 2.6 above)                         | (390)                      | (1,292)                               |
| 4.4                                  | Net cash from / (used in) financing activities (item 3.10 above)                        | -                          | (6)                                   |



## Mining exploration entity or oil and gas exploration entity quarterly cash flow report

| Consolidated statement of cash flows |   | Current quarter<br>\$A'000 | Year to date (9<br>months)<br>\$A'000 |
|--------------------------------------|---|----------------------------|---------------------------------------|
| 4.5                                  | Effect of movement in exchange rates on cash held | -                          | -                                     |
| <b>4.6</b>                           | <b>Cash and cash equivalents at end of period</b> | <b>2,542</b>               | <b>2,542</b>                          |

| 5. Reconciliation of cash and cash equivalents<br>at the end of the quarter (as shown in the consolidated statement of cash flows) to the related items in the accounts |  | Current quarter<br>\$A'000 | Previous quarter<br>\$A'000 |
|---|--|----------------------------|-----------------------------|
| 5.1   | Bank balances  | 2,542                      | 3,222                       |
| 5.2   | Call deposits  |                            |                             |
| 5.3   | Bank overdrafts  |                            |                             |
| 5.4   | Other (provide details)  |                            |                             |
| <b>5.5</b>  | <b>Cash and cash equivalents at end of quarter (should equal item 4.6 above)</b> | <b>2,542</b>               | <b>3,222</b>                |

**6. Payments to related parties of the entity and their associates**

- 6.1 Aggregate amount of payments to related parties and their associates included in item 1
- 6.2 Aggregate amount of payments to related parties and their associates included in item 2

**Current quarter  
\$A'000**

116

-

Note: if any amounts are shown in items 6.1 or 6.2, your quarterly activity report must include a description of, and an explanation for, such payments

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## Mining exploration entity or oil and gas exploration entity quarterly cash flow report

| 7. <b>Financing facilities</b><br><i>Note: the term "facility" includes all forms of financing arrangements available to the entity.<br/>Add notes as necessary for an understanding of the sources of finance available to the entity.</i> | <b>Total facility amount at quarter end<br/>\$A'000</b> | <b>Amount drawn at quarter end<br/>\$A'000</b> |
|---|---|--|
| 7.1 Loan facilities   | -   | -  |
| 7.2 Credit standby arrangements   | -   | -  |
| 7.3 Other (please specify)  | -   | -  |
| 7.4 <b>Total financing facilities</b>   | -   | -  |

|   |   |
|---|---|
| 7.5 <b>Unused financing facilities available at quarter end</b>   | - |
| 7.6 Include in the box below a description of each facility above, including the lender, interest rate, maturity date and whether it is secured or unsecured. If any additional financing facilities have been entered into or are proposed to be entered into after quarter end, include a note providing details of those facilities as well. |   |

| 8. <b>Estimated cash available for future operating activities</b>                           | <b>\$A'000</b> |
|--|----------------|
| 8.1 Net cash from / (used in) operating activities (Item 1.9)                                | (290)          |
| 8.2 (Payments for exploration & evaluation classified as investing activities) (item 2.1(d)) | (390)          |
| 8.3 Total relevant outgoings (Item 8.1 + Item 8.2)   | (680)          |
| 8.4 Cash and cash equivalents at quarter end (Item 4.6)                                      | 2,542          |
| 8.5 Unused finance facilities available at quarter end (Item 7.5)                            | -              |
| 8.6 Total available funding (Item 8.4 + Item 8.5)  | 2,542          |
| 8.7 <b>Estimated quarters of funding available (Item 8.6 divided by Item 8.3)</b>            | 3.7            |

8.8 If Item 8.7 is less than 2 quarters, please provide answers to the following questions:

1. Does the entity expect that it will continue to have the current level of net operating cash flows for the time being and, if not, why not?

Answer: N/A

2. Has the entity taken any steps, or does it propose to take any steps, to raise further cash to fund its operations and, if so, what are those steps and how likely does it believe that they will be successful?

Answer: N/A

3. Does the entity expect to be able to continue its operations and to meet its business objectives and, if so, on what basis?

Answer: N/A

**Compliance statement**

- 1 This statement has been prepared in accordance with accounting standards and policies which comply with Listing Rule 19.11A.
- 2 This statement gives a true and fair view of the matters disclosed.

Date: ..... 29 April 2024.....

Authorised by: .....By the Board of the Company.....  
(Name of body or officer authorising release – see note 4)

**Notes**

1. This quarterly cash flow report and the accompanying activity report provide a basis for informing the market about the entity's activities for the past quarter, how they have been financed and the effect this has had on its cash position. An entity that wishes to disclose additional information over and above the minimum required under the Listing Rules is encouraged to do so.
2. If this quarterly cash flow report has been prepared in accordance with Australian Accounting Standards, the definitions in, and provisions of, *AASB 6: Exploration for and Evaluation of Mineral Resources* and *AASB 107: Statement of Cash Flows* apply to this report. If this quarterly cash flow report has been prepared in accordance with other accounting standards agreed by ASX pursuant to Listing Rule 19.11A, the corresponding equivalent standards apply to this report.
3. Dividends received may be classified either as cash flows from operating activities or cash flows from investing activities, depending on the accounting policy of the entity.
4. If this report has been authorised for release to the market by your board of directors, you can insert here: "By the board". If it has been authorised for release to the market by a committee of your board of directors, you can insert here: "By the [name of board committee – eg Audit and Risk Committee]". If it has been authorised for release to the market by a disclosure committee, you can insert here: "By the Disclosure Committee".
5. If this report has been authorised for release to the market by your board of directors and you wish to hold yourself out as complying with recommendation 4.2 of the ASX Corporate Governance Council's *Corporate Governance Principles and Recommendations*, the board should have received a declaration from its CEO and CFO that, in their opinion, the financial records of the entity have been properly maintained, that this report complies with the appropriate accounting standards and gives a true and fair view of the cash flows of the entity, and that their opinion has been formed on the basis of a sound system of risk management and internal control which is operating effectively.

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