

## CARRARA RANGE PROJECT SEDEX AND URANIUM POTENTIAL

### HIGHLIGHTS

- *Independent review of Resolution's Carrara Range Project, in Northern Territory, concludes that the Project is highly prospective for Sedimentary Exhalative (SEDEX) and Unconformity uranium mineralisation.*
- *SEDEX analogues for the Carrara Range Project include the Century Zinc Deposit and the McArthur River Deposit.*
- *Unconformity uranium analogues for the Carrara Range Project include the Westmoreland Uranium Field and the world-class Athabasca Uranium Province.*
- *In addition, the Carrara Range Project hosts known high grade manganese (Mn) and iron (Fe) mineralisation.*
- *Resolution will focus on the SEDEX and Uranium potential of Carrara Range.*

Resolution Minerals Ltd (RML or Company) (ASX: RML) is pleased to announce the results of a recent independent review of its Carrara Range Project (**Carrara** or the **Project**). The review was undertaken by Mr Ross Brown of Riviere Minerals, who has over 30's experience in base metals and sedimentary-hosted uranium mineral systems and exploration.

The **Carrara Range SEDEX and Uranium Potential Presentation** follows this announcement. The review has accessed previously released data and general information available publicly on the ASX portal, on the Northern Territory Government *Spatial Territory Resource Information Kit for Exploration* (**STRIKE**) and on the *Geoscience Exploration and Mining Information System* (**GEMIS**). Key take ways in the positive assessment of the SEDEX and uranium potential of the Carrara Range Project include:

- The project area includes three granted Exploration Licences, with a total manageable area of 685km<sup>2</sup>, covering the SEDEX and uranium targets.
- The Encounter Resources – South32 Carrara Joint Venture (**Carrara JV**) project is immediately adjacent to Carrara Range. The Carrara JV is focussing on Tier-1 copper and zinc mineralisation. Encounter notes “*clear correlation of the Century Zinc Mine stratigraphy across the basin in Geoscience Australia seismic data.*” (Mining.com.au article 13 Oct 2023).
- The Lower Carrara Group of the Lawn Hill Platform has been correlated to the Westmoreland Conglomerate which hosts more than eighteen uranium occurrences making up the Westmoreland Uranium field (125km north of Carrara Range). The Westmoreland Uranium field is analogous to the Athabasca Uranium Province.
- A conglomeratic unit of the Lower Carrara Group at Carrara Range has a strong ternary / uranium radiometric signature over a 30km strike length.

**Authorised for release by the board of Resolution Minerals Ltd.**

For further information, please contact Aharon Zaetz Executive Director.

**Aharon Zaetz**

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RML confirms that this announcement the Company is not aware of any new information or data cross referenced in this announcement.

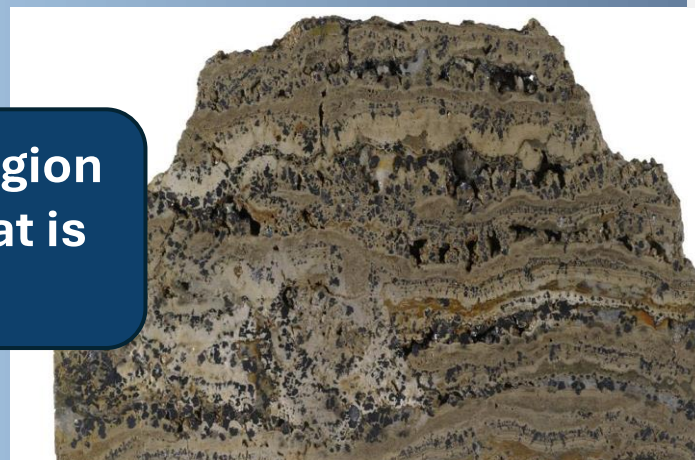
# The Exploration Potential of Resolution Minerals' Carrara Range Project



- The potential exists for stratiform epigenetic manganese mineralisation at the Resolution Minerals Ltd (ASX: RML) **Carrara Range Project** (100% owned)
- There also exists the potential for **Sedimentary Exhalative (SEDEX) base metal mineralisation** and **Unconformity uranium** at Carrara Range



This is an exciting project in a region with Tier-1 deposit potential that is materially under-explored.



Rock specimens are not the property of Resolution Minerals Ltd



*Rivière*  
MINERALS PTY LTD

# Resolution's Carrara Range Project Tenement Holding

## EL32577

- Ownership: Carrara Resources Pty Ltd (100%)
- Grant Date: 13 July 2021
- Expiry Date: 12 July 2027 (**valid for 36 further months**)
- Area: 352.98sqkm (114 blocks)

## EL32620

- Ownership: Carrara Resources Pty Ltd (100%)
- Grant Date: 16 August 2021
- Expiry Date : 15 August 2027 (**valid for 37 further months**)
- Area: 135.07sqkm (47 blocks)

## EL32622

- Ownership: Carrara Resources Pty Ltd (100%)
- Grant Date: 16 August 2021
- Expiry Date : 15 August 2027 (**valid for 37 further months**)
- Area: 196.80sqkm (63 blocks)

## ELA32578

- Ownership: Carrara Resources Pty Ltd (100%)
- Consent Date: 19 January 2021
- Area: 188.95sqkm (73 blocks)

## ELA32619

- Ownership: Carrara Resources Pty Ltd (100%)
- Consent Date: 12 March 2021
- Area: 236.09sqkm (80 blocks)

## ELA32621

- Ownership: Carrara Resources Pty Ltd (100%)
- Consent Date: 12 March 2021
- Area: 161.10sqkm (60 blocks)

**Three ELA's occurring on the  
Waanyi/Garawa Aboriginal  
Land Trust area.**

**A large granted landholding of 685sqkm  
conducive to regional mineral exploration.  
All tenements are in good standing.**

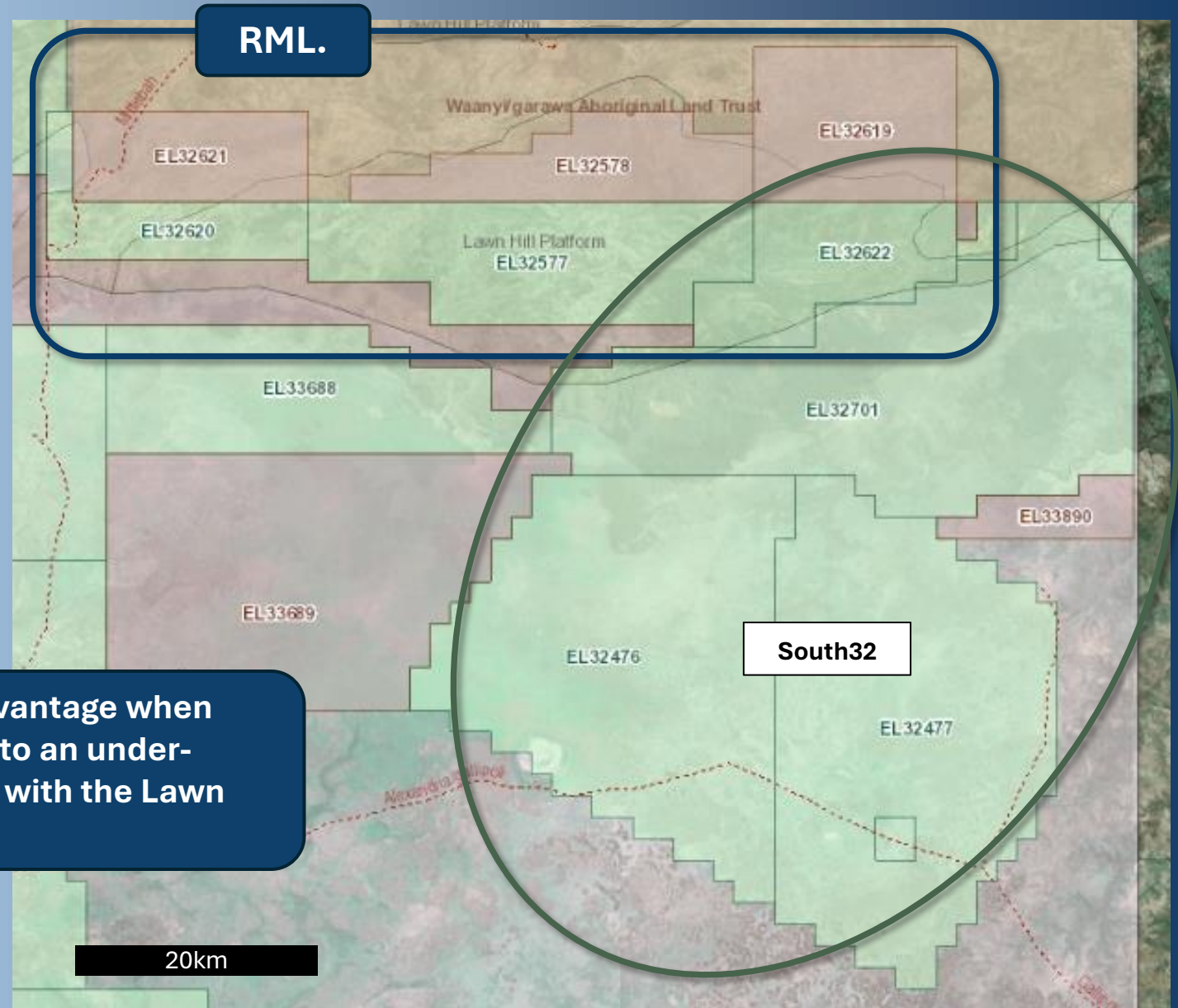




## Tenement Holding of the Carrara Range Project

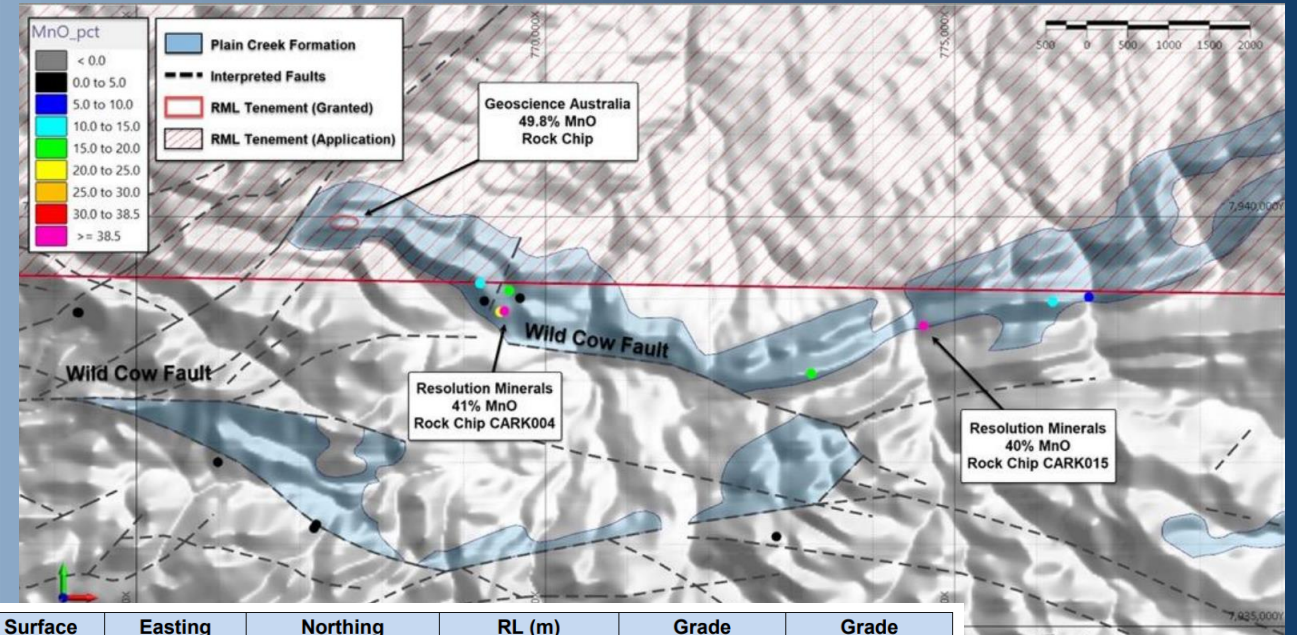
- Resolution's Carrara Range Project comprises 6 ELs for a total area of **1,271sqkm**
  - Granted (green shaded area)
  - Applications (brown shaded area)
- South32 has a large project immediately southeast of Carrara Range presumably exploring for Tier-1 SEDEX deposits

**A large landholding is a significant advantage when applying regional exploration models to an under-explored area such as that coinciding with the Lawn Hill inlier in the NT.**



# Known Manganese at Carrara Range

- The Carrara Mn Prospect (49.8% MnO rockchip) discovered by Geoscience Australia occurs within the Plain Creek Formation
- RML-generated Mn occurrences (rockchip) also correspond to the Plain Creek Formation, with Mn peak value of 41.1% MnO
- The Plain Creek Formation is part of the Lawn Hill Platform geological province



| Surface Rock Chip | Easting (GDA94Z53) | Northing (GDA94Z53) | RL (m) (Handheld GPS) | Grade Mn% | Grade MnO% |
|-------------------|--------------------|---------------------|-----------------------|-----------|------------|
| CARK001           | 769201             | 7939202             | 369                   | 7.9       | 10.2       |
| CARK002           | 769554             | 7939101             | 308                   | 11.9      | 15.4       |
| CARK003           | 769687             | 7939008             | 350                   | 2.8       | 3.6        |
| CARK004           | 769495             | 7938850             | 350                   | 31.8      | 41.1       |
| CARK005           | 769447             | 7938841             | 353                   | 18.0      | 23.2       |
| CARK006           | 769252             | 7938972             | 327                   | 0.1       | 0.1        |
| CARK007           | 755691             | 7938049             | 380                   | 0.2       | 0.3        |
| CARK008           | 757188             | 7937977             | 386                   | 1.6       | 2.0        |
| CARK009           | 758240             | 7937889             | 407                   | 22.5      | 29.1       |
| CARK010           | 759817             | 7937861             | 403                   | 0.1       | 0.1        |
| CARK011           | 764295             | 7938832             | 410                   | 0.0       | 0.1        |
| CARK012           | 764279             | 7938833             | 410                   | 0.1       | 0.2        |
| CARK013           | 776640             | 7939021             | 315                   | 5.7       | 7.4        |
| CARK014           | 776199             | 7938966             | 346                   | 10.3      | 13.2       |
| CARK015           | 774618             | 7938668             | 317                   | 31.0      | 40.0       |
| CARK016           | 773248             | 7938085             | 346                   | 13.2      | 17.0       |
| CARK017           | 772820             | 7936095             | 372                   | 0.1       | 0.1        |
| CARK018           | 767169             | 7936197             | 327                   | 0.2       | 0.3        |
| CARK019           | 767197             | 7936242             | 327                   | 0.1       | 0.2        |
| CARK020           | 765994             | 7937002             | 342                   | 0.0       | 0.0        |
| CARK021           | 755691             | 7937744             | 330                   | 0.1       | 0.1        |
| CARK022           | 755694             | 7938054             | 332                   | 0.1       | 0.2        |
| CARK023           | 755711             | 7938073             | 332                   | 0.1       | 0.1        |
| CARK024           | 755957             | 7938145             | 336                   | 0.1       | 0.1        |

Photo, map and assay table from RML ASX announcement 26 September 2023





# The Carrara Mn Prospect

(from Carson et al 2020)

- The high-grade zone of the Mn mineralisation comprises massive **pyrolusite** and **cryptomelane** (with elevated Zn and Co)
- The massive Mn zone is surrounded by lower grade altered sandstone which is cross-cut by Mn-veinlets
- **Carson et al** concludes that the Mn occurrence is likely to be an epigenetic replacement stratiform body



## A manganese oxide discovery, Carrara Range, South Nicholson region, NT.

Carson CJ, Henson PA, Huston D, Jarrett AJM, Champion DS and Boreham CJ.



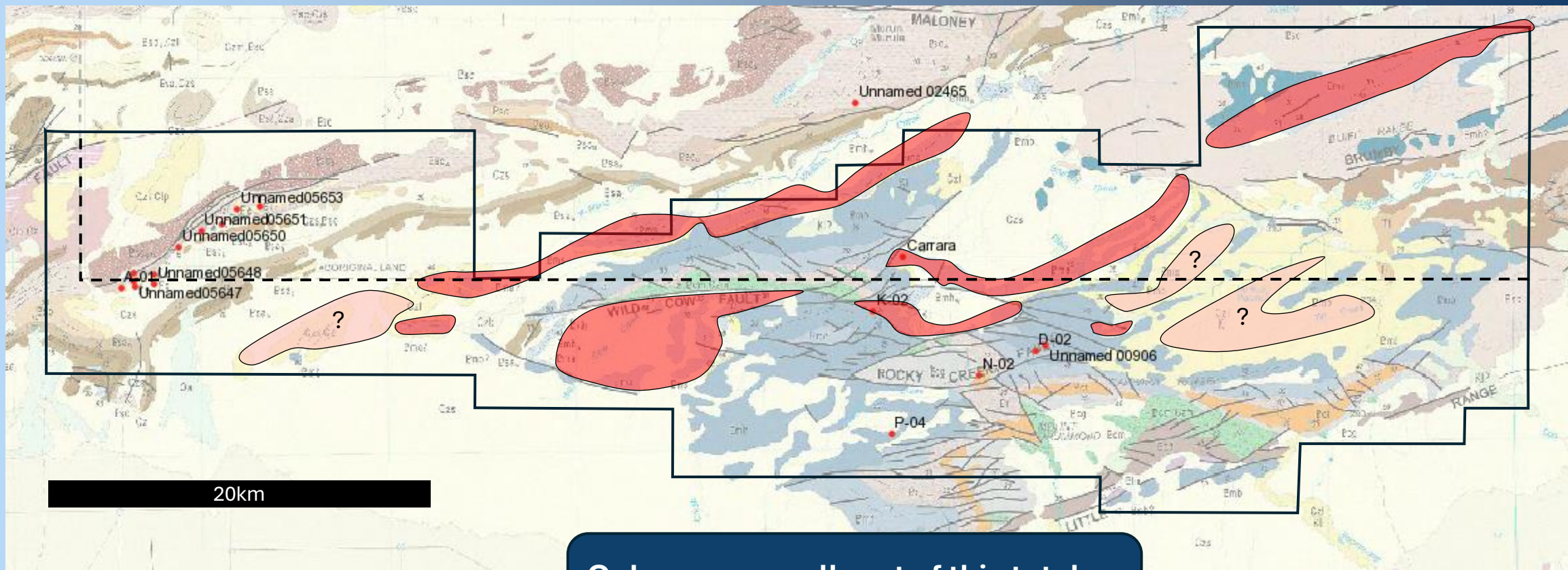
**Figure 3** A) Sample of Plain Creek Formation, Carrara Range, with incipient MnO mineralisation. Note the diffuse quartz-MnO domains and discrete 'feeder' veinlets. The veinlets were targeted for fluid inclusion investigations. B) Massive cryptomelane-pyrolucite occurrence.

Figure from Carson et al 2020



# The Carrara Range Project Hosts Extensive Plain Creek Formation

- The Carrara Range hosts approximately 75km strike length of Plain Creek Formation (red shaded areas) and possible covered extensions of Plain Creek Formation (pink shaded areas)



Only a very small part of this total exposure has been sampled to date.

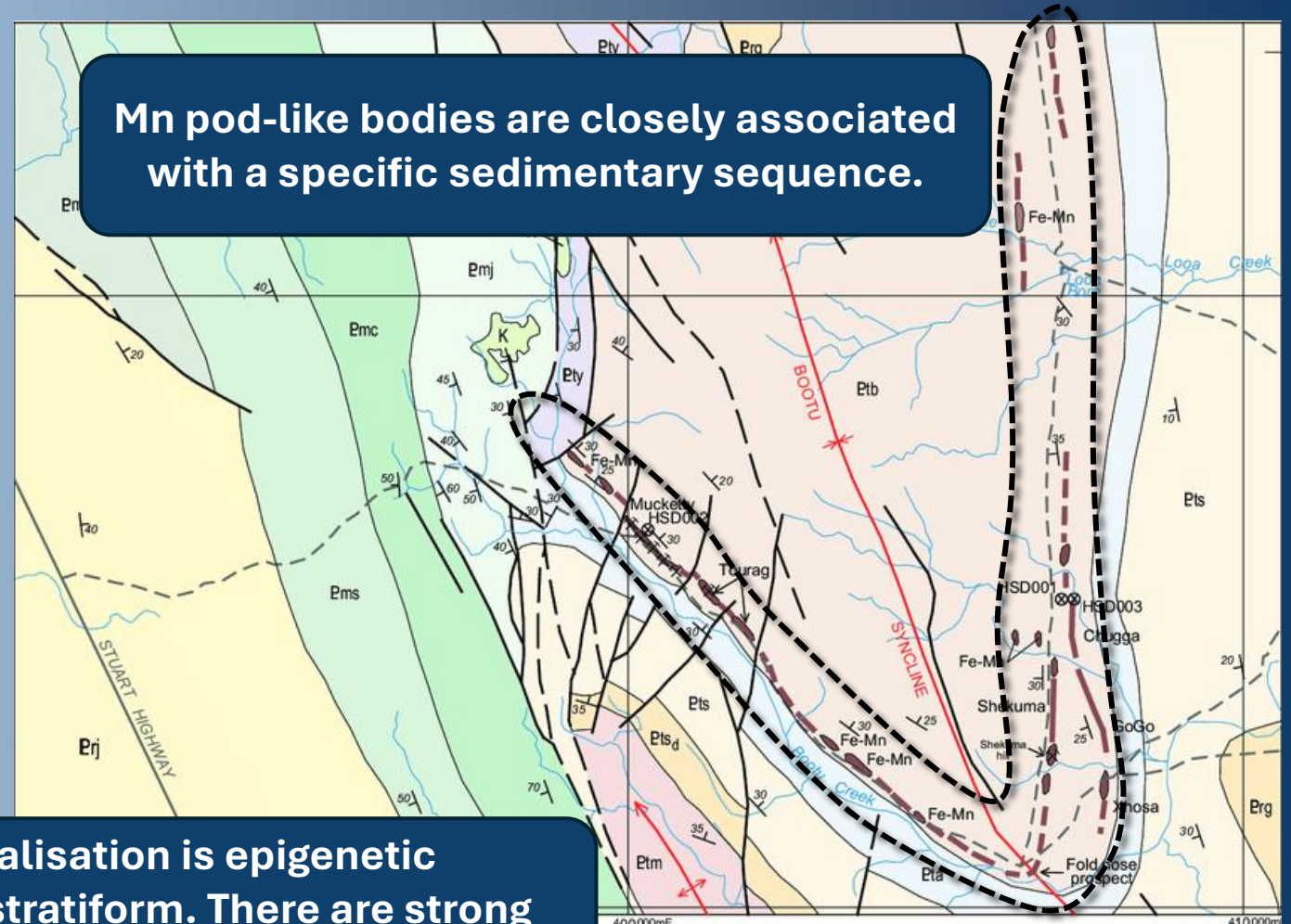
Image generated by Riviere Minerals using STRIKE



# The Bootu Creek Manganese Deposit (Northern Territory) an Analogue for the Carrara Manganese Prospect

Map from Hussey et al 2001 copied from PA Ferenczi 2001 Iron Ore, Manganese and Bauxite Deposits of the Northern Territory Vol 13, NTGA

- The Bootu Creek Mn Deposit (110km north of Tennant Creek) operated between 2005 and 2021
- A JORC 2012 combined resource and reserve of 12.5Mt at 21% Mn with a 15% Mn cut-off was published by OM Manganese Ltd (ASX announcement 24 April 2013)
- Ore-grade Mn is hosted in a sequence of dolostones, claystones, siltstones and sandstones comprising the Bootu Formation
- Up to four Mn horizons (“seems”) from 2m to 6m thick are traceable over a 24km strike length



**The Mn mineralisation is epigenetic replacement and stratiform. There are strong parallels with the Carrara Mn Prospect.**



# The Bootu Creek Manganese Deposit

- Mn ore minerals at Bootu include: cryptomelane (dominant), psilomelane, pyrolusite and hollandite (minor)
- Elevated metals include: Pb, Cu, (Ba)
- Mn is believed to have been present as a primary component in a Mn-rich marine sediment, but concentrated during post-depositional, low temperature hydrothermal replacement and supergene enrichment

**The same mineralising processes are believed to have occurred along sections of the Plain Creek Formation within the Carrara Range Project area.**



Photo of Mn outcrop at the Bootu Mn Deposit

**Stromatolite from a dolomite bed at Bootu that has been replaced by manganese oxide.**

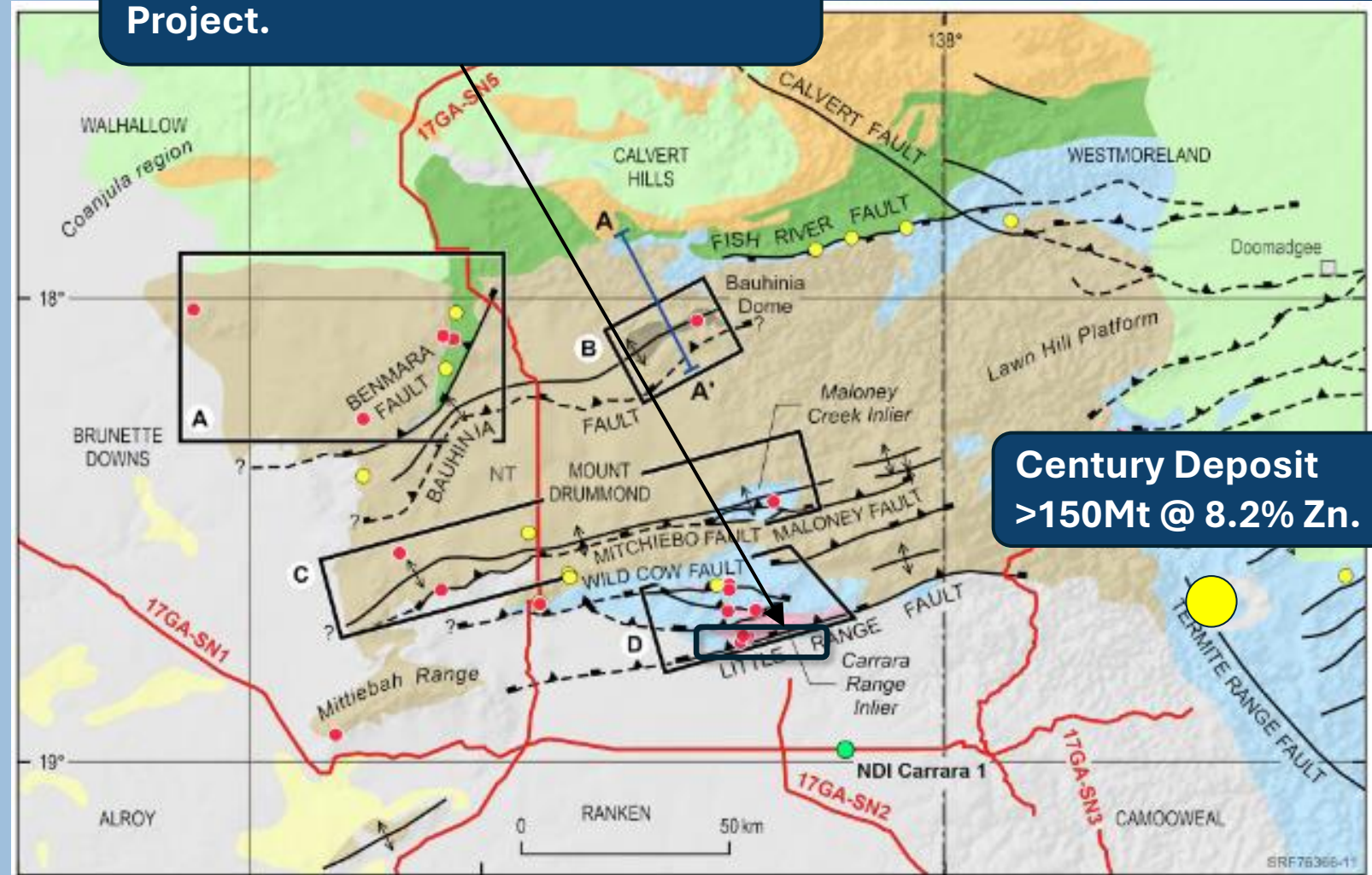


Rock specimen is not the property of Resolution Minerals Ltd

# A Regional Perspective of the Carrara Range Project

- The Carrara Range Project covers the Lawn Hill Platform inlier in the South Nicholson Basin region
- Recent investigations by Geoscience Australia (Carson et al 2023) have materially upgraded the prospectivity of the South Nicholson Basin and Lawn Hill Platform geological provinces
- **Based on its regional geological setting Carrara Range has significant base metal (Pb-Zn) and uranium potential**

The regional study area showing the location of RML's Carrara Range Project.



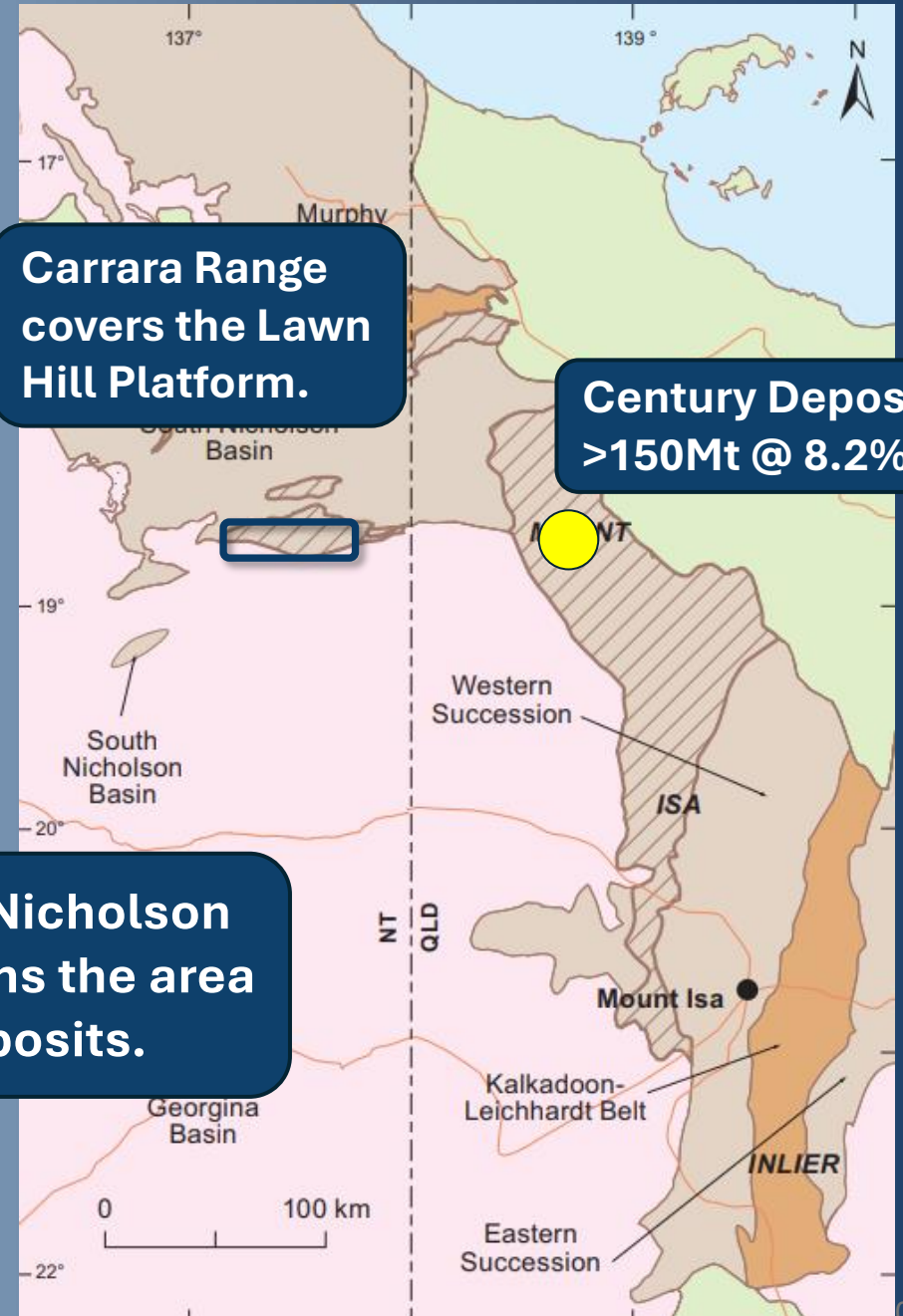
Stratigraphic column from C. J. Carson, N. Kositsin, J. R. Anderson & P. A. Henson (19 Oct 2023): A revised Proterozoic tectono-stratigraphy of the South Nicholson region, Northern Territory, Australia—insights from SHRIMP U–Pb detrital zircon geochronology, Australian Journal of Earth Sciences, DOI: 10.1080/08120099.2023.2264355



# Base Metals and Uranium Potential at the Carrara Range Project

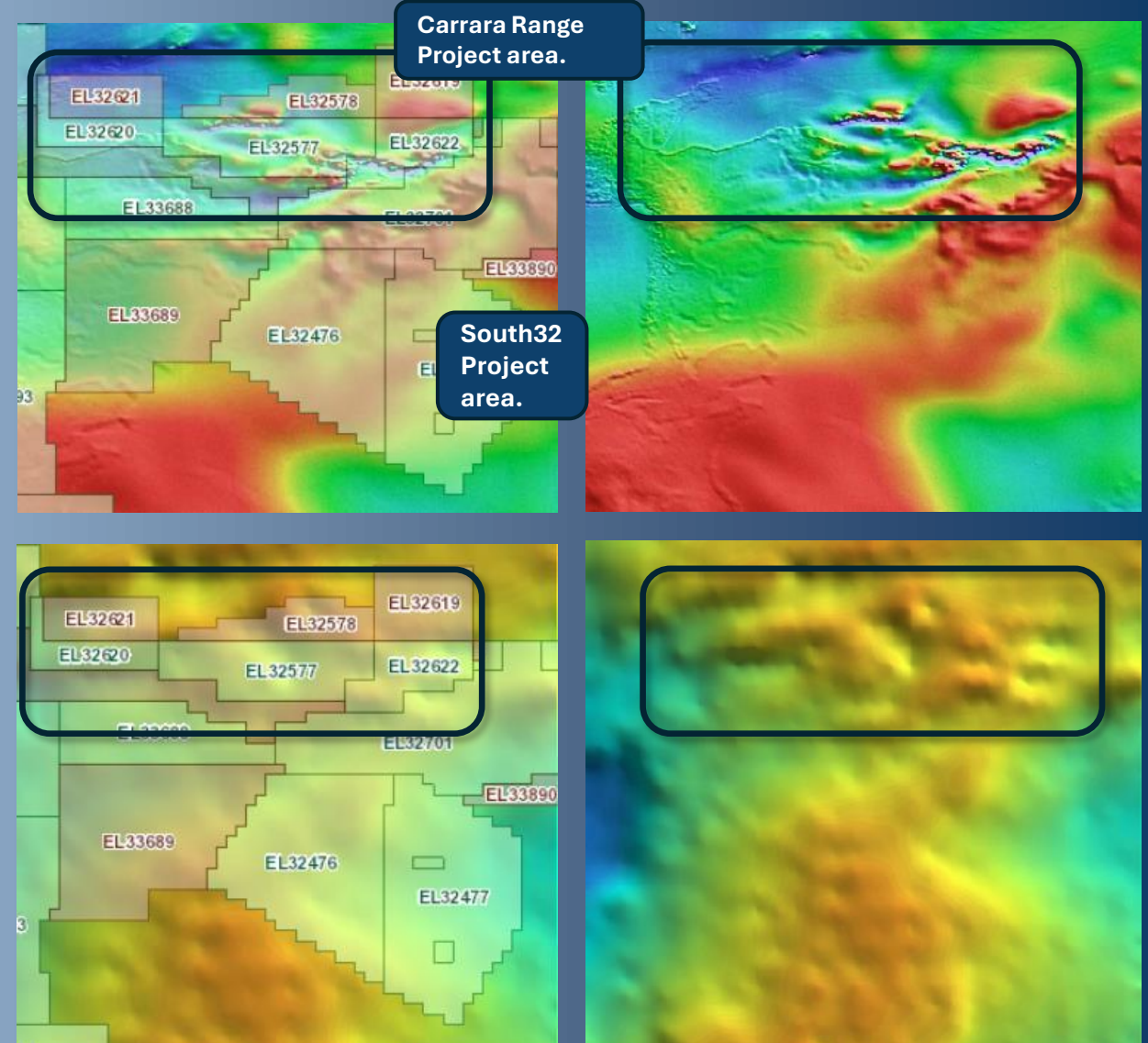
- In addition to manganese, the Carrara Range Project has the potential to host base metals and uranium
- This is largely based on the revised understanding of the Lawn Hill Platform tectono-stratigraphy and existence of favourable regional scale geophysical features
- Two styles of mineralisation are particularly salient:
  - **SEDEX**
  - **Unconformity Uranium**

**The revised geochronological status of the South Nicholson region, including the Lawn Hill Platform inlier, means the area is now highly prospective for Tier-1 mineral deposits.**



# Regional Geophysics of the Carrara Range Project and South32 Project area

- As part of the Exploring For the Future (EFTF) initiative Geoscience Aust and NT/QLD Geo Surveys completed extensive regional studies – including geophysics
- A regional magnetic (top right) and gravity (bottom right) SW-NE corridor converges on the Carrara Range Project area where it appears to “fragment” due to strong EW faults
- A large South32 project covers the same magnetic/gravity corridor immediately southeast of the Carrara Range Project
- **The magnetic-gravity features of the Carrara Range Project area are of great interest in terms of potential mineral systems (i.e. SEDEX deposits) and warrant further investigation**



Images generated by Riviere Minerals using STRIKE

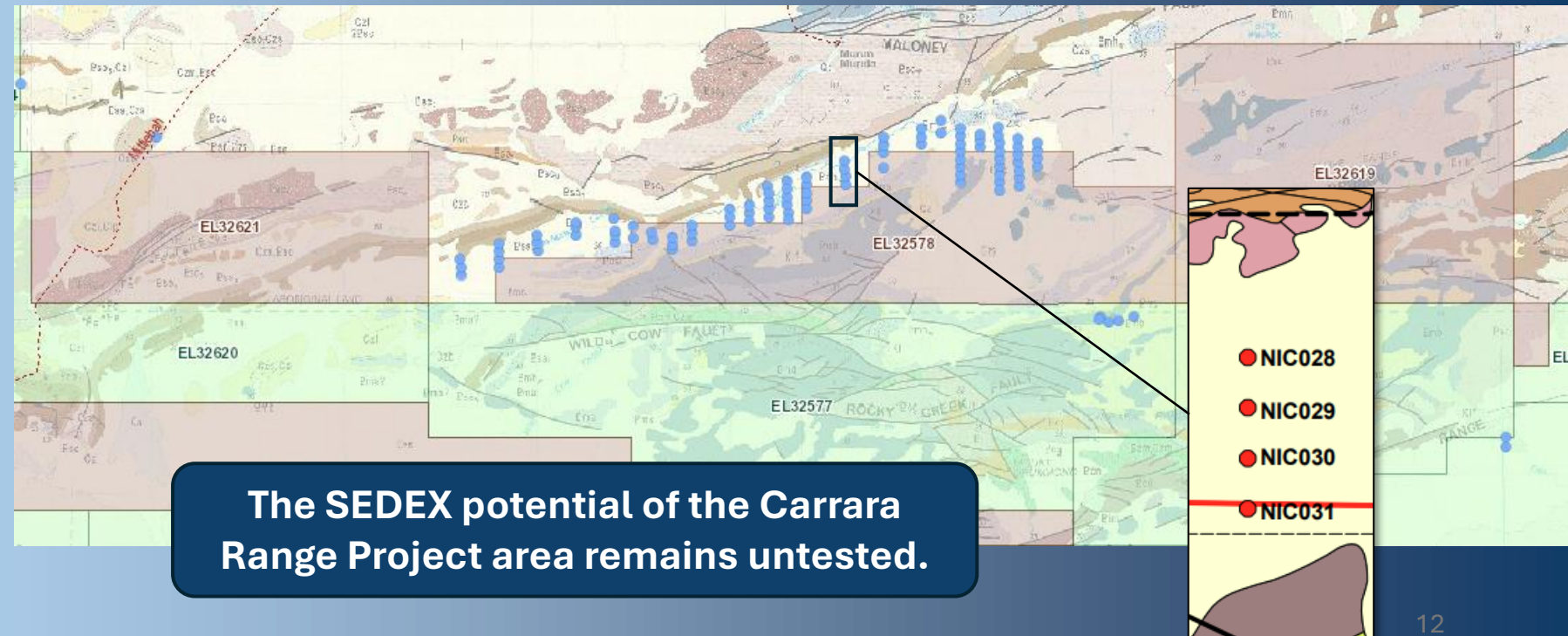
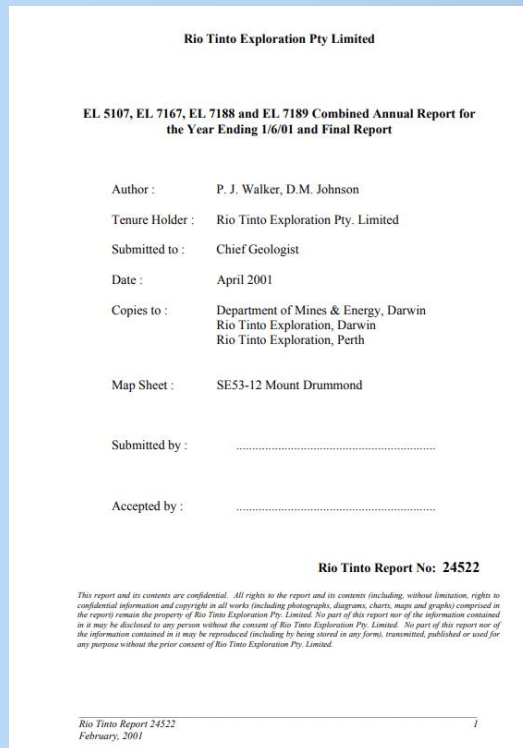




# Rio Tinto Drills for Tier-1 SEDEX mineralisation in 2001

- A stream and rock chip program identifies geochemical anomalies believed prospective for SEDEX-style mineralisation
- Rio complete 93 RAB holes (plan below) for 2,850m but fail to identify near-surface stratiform Pb-Zn mineralisation (average hole depth is <40m)
- **Rio concluded that it had tested false-gossans (Pb-Zn scavenged in Mn-Fe-rich regolith) – they did not test geophysical anomalies, nor the Plain Creek Formation**

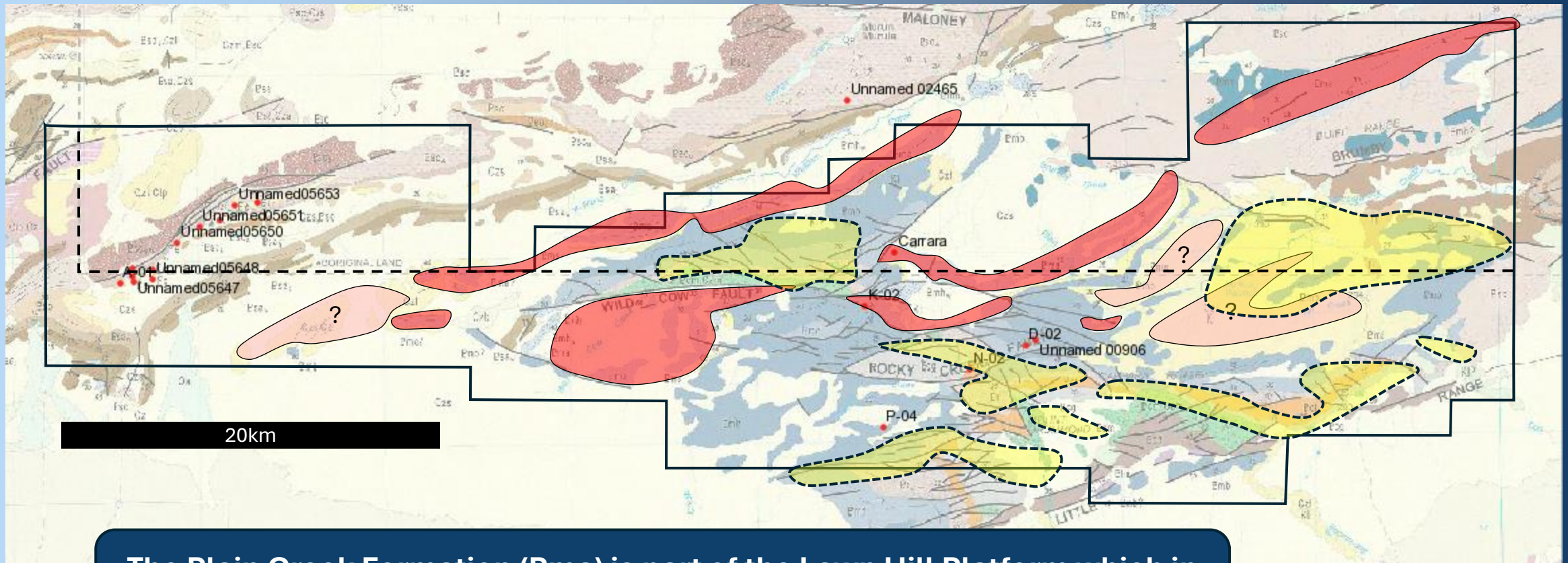
Image generated by Riviere Minerals using STRIKE



# Magnetics (TMI) of the Carrara Range Project

- The magnetic high anomalies (yellow shaded areas) do not appear to be lithologically constrained
- **Provided the revised lithostratigraphic association the Carrara Range Group with sediments hosting Tier-1 SEDEX deposits (Century, McArthur River, etc..) these targets warrant further investigation and testing**

Image generated by Riviere Minerals using STRIKE



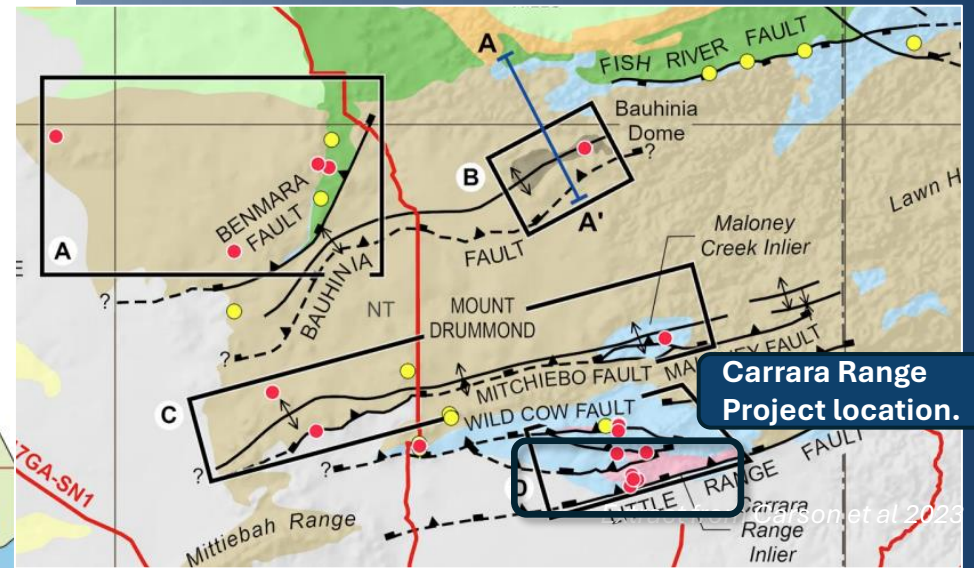
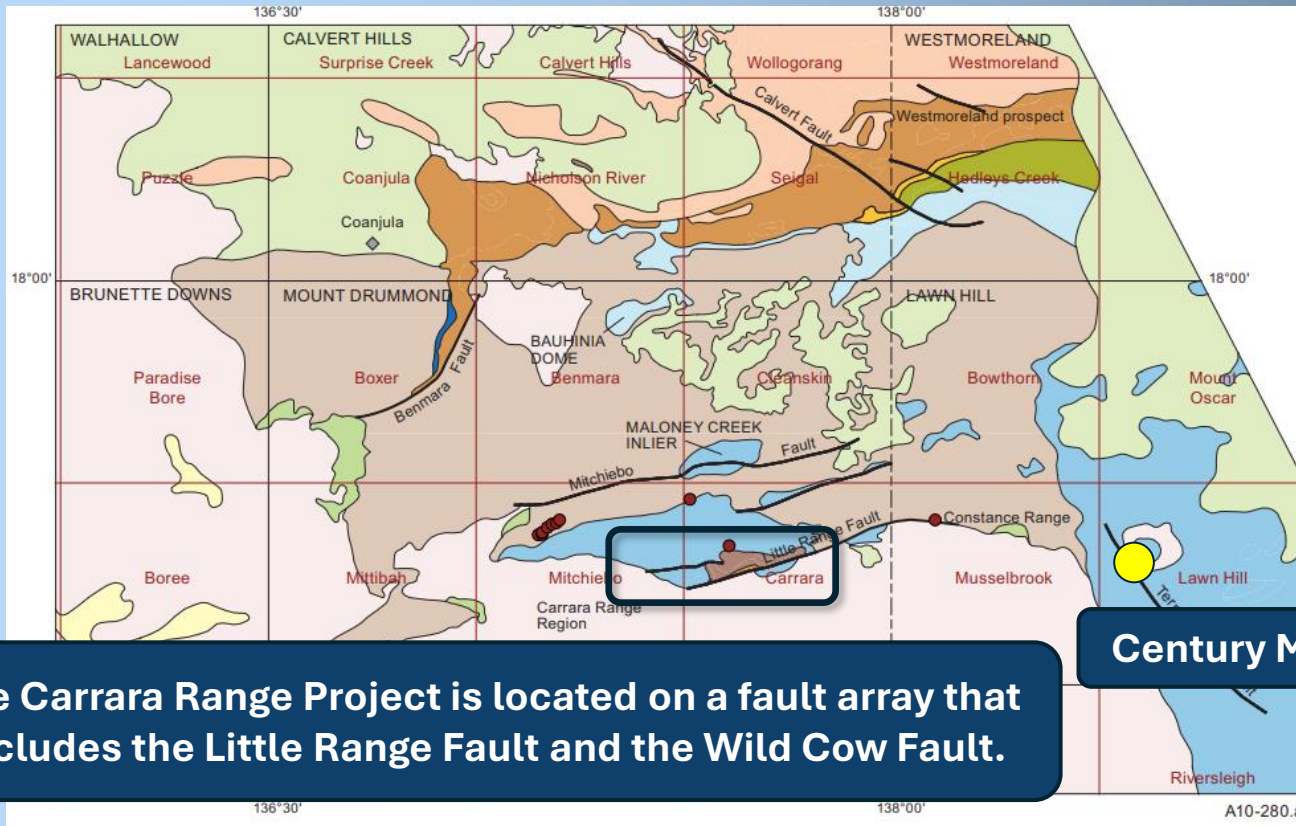
**The Plain Creek Formation (Pma) is part of the Lawn Hill Platform which in QLD hosts several Tier-1 base metal deposits including Century.**



# Regional Structures of the Carrara Range Project



- The Carrara Range Project is located on a series of E-W regional-scale faults that have shaped and helped create the Lawn Hill Platform inlier in the Carrara Range area
- The structural regime is not dissimilar to that which created the Murphy Province (brown shaded area)

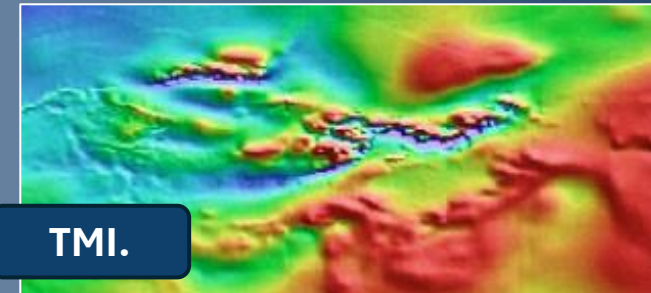


The Carrara Range Project is located on a fault array that includes the Little Range Fault and the Wild Cow Fault.

Century Mine.

Carrara Range Project location.

Plan from Ahmad M and Munson TJ, 2013. Chapter 18: Lawn Hill Platform: in Ahmad M and Munson TJ (compilers). 'Geology and mineral resources of the Northern Territory'. Northern Territory Geological Survey, Special Publication 5

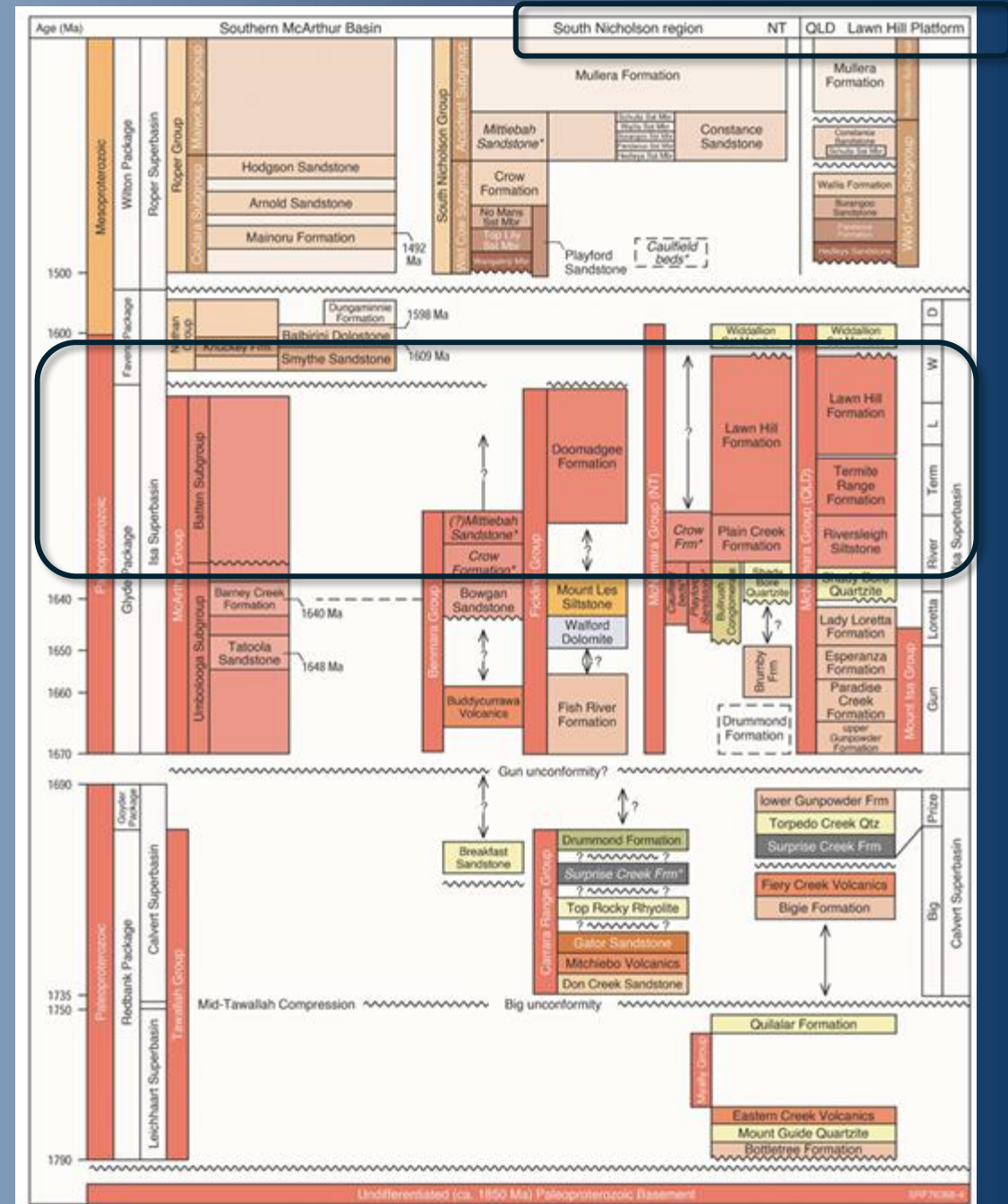


TMI.

# The SEDEX potential of the Carrara Ridge Project

- The Carrara Range Project hosts extensive Lawn Hill Platform geology – which “across the border” in QLD hosts the Tier-1 Century Zn and McArthur River Pb-Zn mines
  - **Century: A published (1998) mineral resource of 167.5 Mt @ 8.24% Zn, 1.23% Pb, 33 g/t Ag**
  - **McArthur River: A published (2016) mineral resource of 190Mt @ 9.4% Zn, 4.5% Pb, 46g/t Ag**

(both resource statements from Porter GeoConsultancy 2005)
- A revised Proterozoic tectono-stratigraphy now links the Lawn Hill Platform of the NT with that of west QLD
- The implication is that the Lawn Hill Platform has a raised level of prospectivity now approaching that of the McArthur Basin and the Mt Isa Province



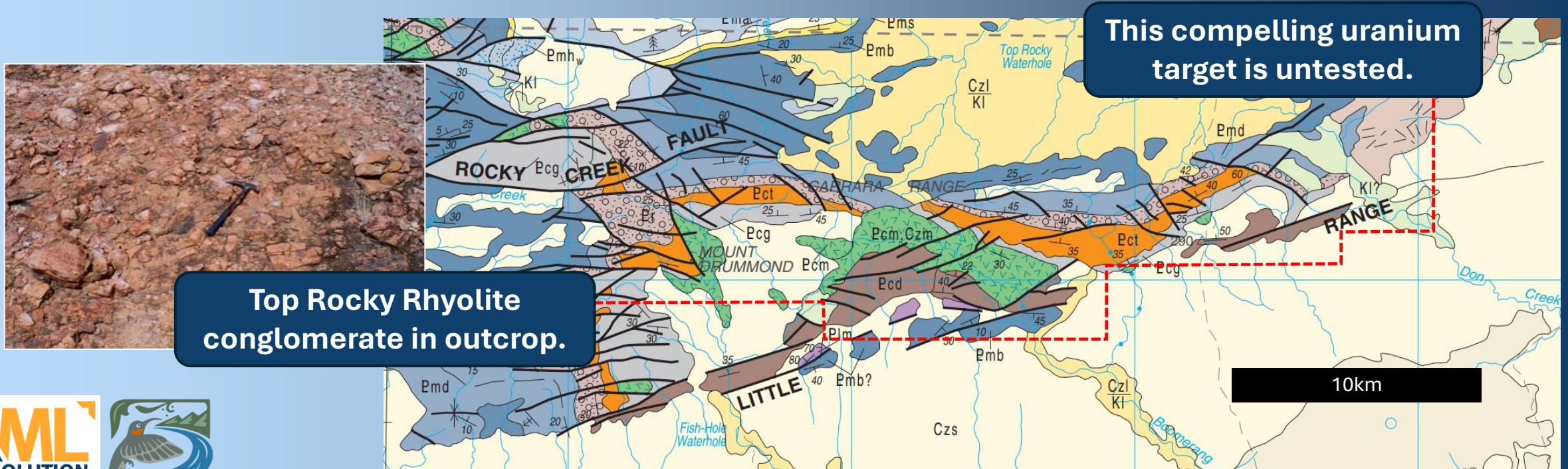
Stratigraphic column from C. J. Carson, N. Kositsin, J. R. Anderson & P. A. Henson (19 Oct 2023): A revised Proterozoic tectono-stratigraphy of the South Nicholson region, Northern Territory, Australia—insights from SHRIMP U–Pb detrital zircon geochronology, Australian Journal of Earth Sciences, DOI: 10.1080/08120099.2023.2264355





# Untested Uranium Potential of the Carrara Range Project

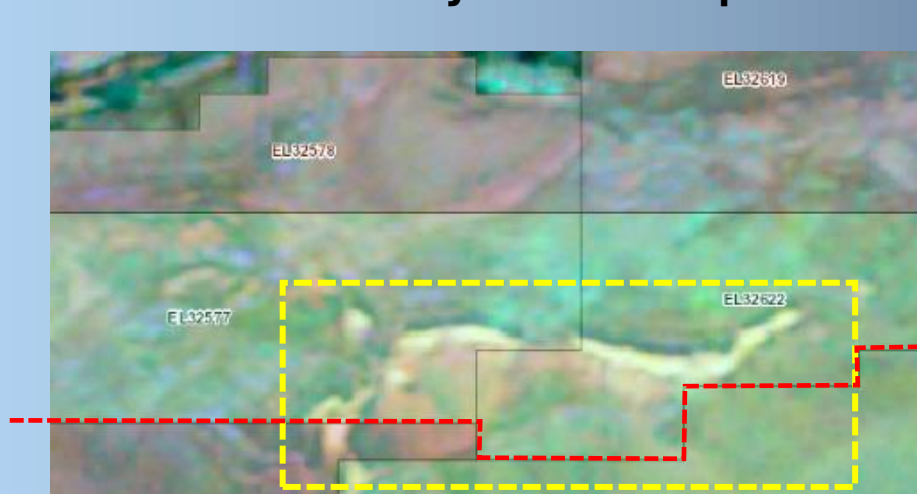
- The Don Creek Formation (**Pcd** – brown shaded area) of the Lower Carrara Group [Lawn Hill Platform] correlates with the Westmoreland Conglomerate (Ahmad et al 1989, Haines et al 1993)
- The Top Rocky Rhyolite (**Pct** – orange shaded area) of the Upper Carrara Group comprises porphyritic rhyolites and pebble and boulder conglomerates
- The Westmoreland Conglomerate hosts the deposits of the Westmoreland Uranium Field that have a combined resource of 15.6Mt at 1.18%  $U_3O_8$  for 17,900 tonnes of  $U_3O_8$  (Westmoreland-Redtree Porter GeoConsultancy 2005)
- **There is a ±30km strike length of Top Rocky Rhyolite on the granted part of the Carrara Range Project**



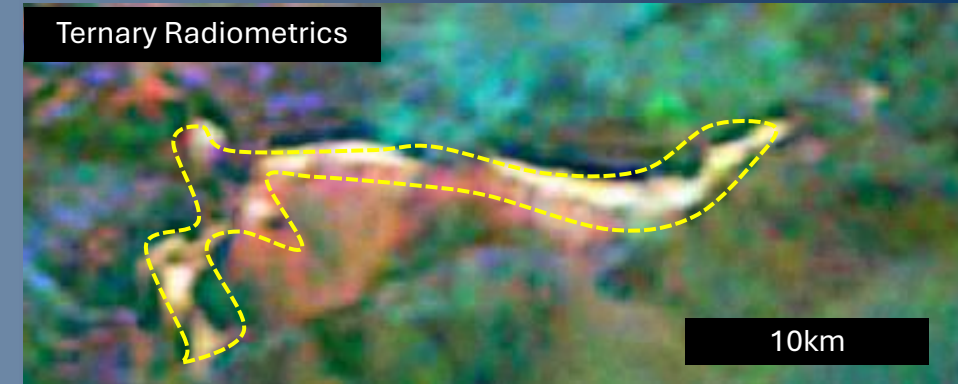
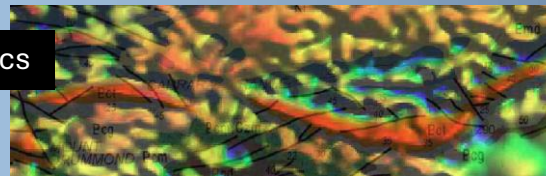


# Radiometrics Confirms Uranium Potential of Carrara Range

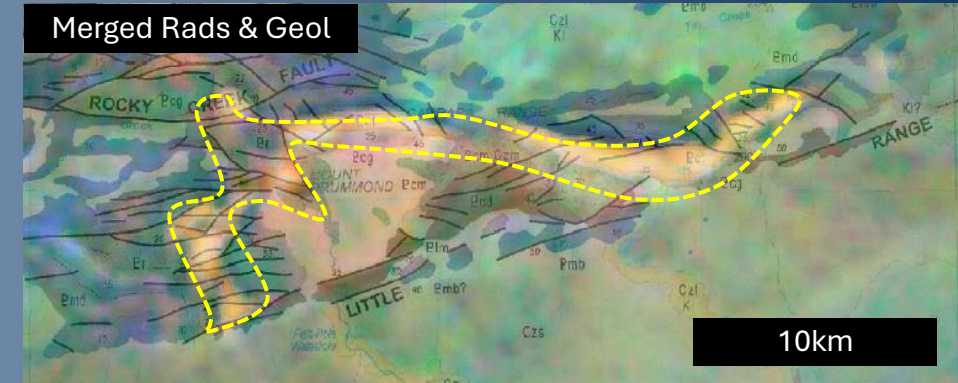
- There is a radiometric anomaly coinciding with the Top Rocky Rhyolite, a unit which hosts conglomerates and is part of the Carrara Range Group which is correlated with the Westmoreland Conglomerate (of the Tawallah Group).
- The Top Rocky Rhyolite radiometric anomaly is  $\pm 30\text{km}$  long and 2km wide
- **This newly recognised highly prospective uranium target is hereafter referred to as the Rocky Creek Prospect**



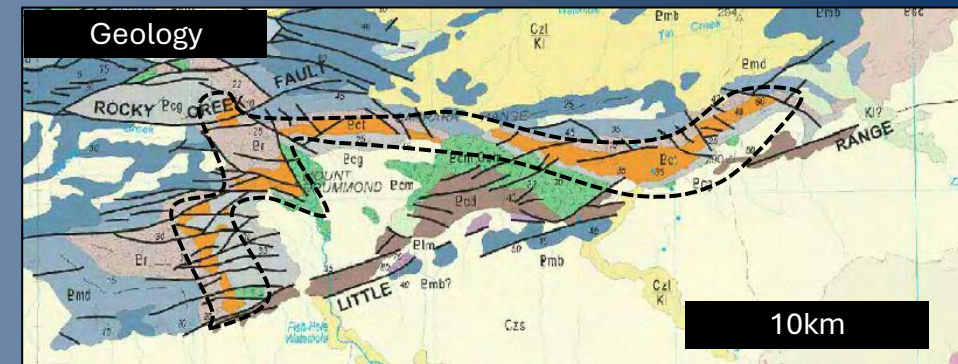
U-only Radiometrics



Merged Rads & Geol



Geology



Images generated by Riviere Minerals using STRIKE



# Unconformity Uranium at Carrara Range: A Westmoreland – Athabasca Basin Analogue

- The Carrara Group [of the Lawn Hill Platform] correlates with the Westmoreland Conglomerate *as previously stated*
- The Westmoreland uranium deposits are analogous to the world-class Athabasca unconformity uranium deposits – by extension then - **the Carrara Group potential  $\equiv$  Westmoreland  $\equiv$  Athabasca**
- Uranium deposits within the Athabasca Basin are located on deep seated structures at an unconformity between oxidised permeable Palaeoproterozoic-aged sediments and older uranium-rich reduced Palaeoproterozoic/Archaean-aged granites and metamorphics

Summary of  
regional geology  
of Carrara  
Range area from  
NT's STRIKE  
data base.

|                                                                                                                                                        |                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A late Palaeoproterozoic deformed sedimentary basin. Major exposures are in Queensland.                                                                | Unconformably overlies Palaeoproterozoic Murphy Inlier. Unconformably overlain by South Nicholson Basin and Georgina Basin.                                                                                                                                    |
| A widespread Neoproterozoic to Palaeozoic intracratonic basin that was initiated as part of the Centralian Superbasin and extends east into Queensland | Unconformably overlies the Aileron Province, Tennant Region, Murphy Inlier, McArthur and South Nicholson Basins and Lawn Hill Platform. Interpreted to be contiguous at depth with Wiso and Daly Basins. Conformably overlies Kalkarindji Province. Unconforma |

|     |                          |
|-----|--------------------------|
| Pr  | SURPRISE CREEK FORMATION |
| Pct | TOP ROCKY RHYOLITE       |
| Pcg | GATOR SANDSTONE          |
| Pcm | MITCHIEBO VOLCANICS      |
| Pcd | DON CK SANDSTONE         |
| Plm | MURPHY METAMORPHICS      |

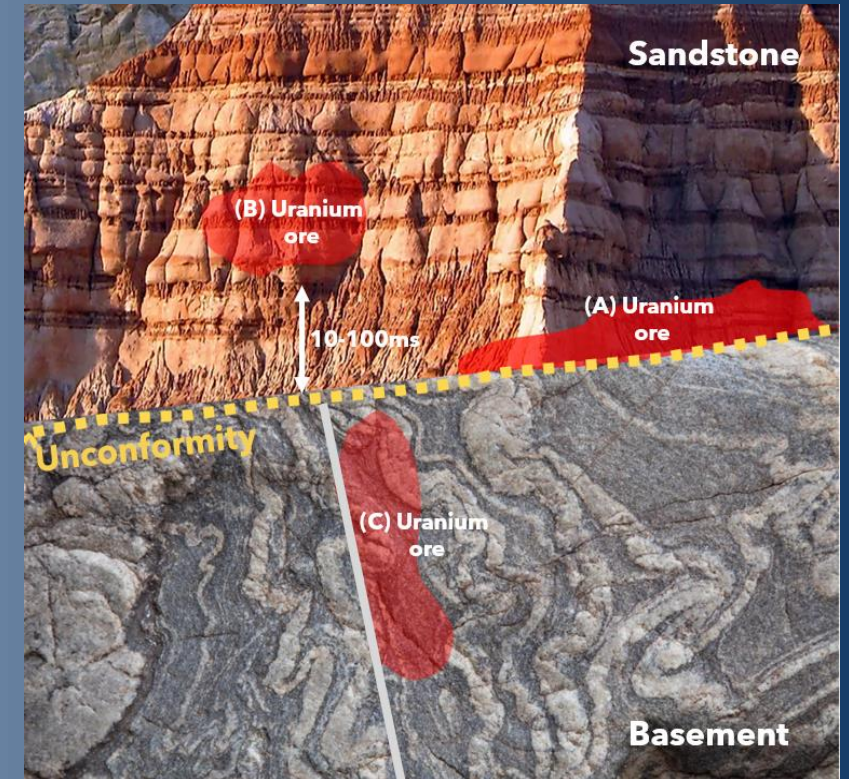


Image copied from Equivest Capital 2021

Deep seated (compression)  
structures and the right  
geology exists at the Carrara  
Range Project.



- 
- Tin occurrences on the Calvert Hills map sheet area.**
- The map displays various geological units and features. Three red circles highlight specific tin occurrences: one near the 'Norris Copper Pore' label, one near the 'Crystal Hill' label, and one near the 'Burrumbidgee' label. Other labels include 'Red Rock Anomaly', 'PtW<sub>1</sub>', 'PtW<sub>2a</sub>', 'PtW<sub>2b</sub>', 'PtW<sub>3</sub>', 'PtW<sub>4</sub>', 'PtS', 'PtS<sub>1</sub>', 'PtS<sub>2</sub>', 'PtS<sub>3</sub>', 'PtS<sub>4</sub>', 'PtS<sub>5</sub>', 'PtS<sub>6</sub>', 'PtS<sub>7</sub>', 'PtS<sub>8</sub>', 'PtS<sub>9</sub>', 'PtS<sub>10</sub>', 'PtS<sub>11</sub>', 'PtS<sub>12</sub>', 'PtS<sub>13</sub>', 'PtS<sub>14</sub>', 'PtS<sub>15</sub>', 'PtS<sub>16</sub>', 'PtS<sub>17</sub>', 'PtS<sub>18</sub>', 'PtS<sub>19</sub>', 'PtS<sub>20</sub>', 'PtS<sub>21</sub>', 'PtS<sub>22</sub>', 'PtS<sub>23</sub>', 'PtS<sub>24</sub>', 'PtS<sub>25</sub>', 'PtS<sub>26</sub>', 'PtS<sub>27</sub>', 'PtS<sub>28</sub>', 'PtS<sub>29</sub>', 'PtS<sub>30</sub>', 'PtS<sub>31</sub>', 'PtS<sub>32</sub>', 'PtS<sub>33</sub>', 'PtS<sub>34</sub>', 'PtS<sub>35</sub>', 'PtS<sub>36</sub>', 'PtS<sub>37</sub>', 'PtS<sub>38</sub>', 'PtS<sub>39</sub>', 'PtS<sub>40</sub>', 'PtS<sub>41</sub>', 'PtS<sub>42</sub>', 'PtS<sub>43</sub>', 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'PtS<sub>329</sub>', 'PtS<sub>330</sub>', 'PtS<sub>331</sub>', 'PtS<sub>332</sub>', 'PtS<sub>333</sub>', 'PtS<sub>334</sub>', 'PtS<sub>335</sub>', 'PtS<sub>336</sub>', 'PtS<sub>337</sub>

The geological map shows the Little Belt Mountains area. Key units include Ecg (Eggs), UUMMONT Pcm (Ummont Pcm), Ecd (Ecd), Plm (Plm), Emb (Emb), Emb? (Emb?), Czl (Czl), and Kl (Kl). A red dashed line highlights a specific area of interest, likely related to the 'LITTLE' label.

**An 8km strike length of  
Murphy metamorphics which  
warrants investigation for tin.**



# The Exploration Potential of Resolution Minerals' Carrara Range Project

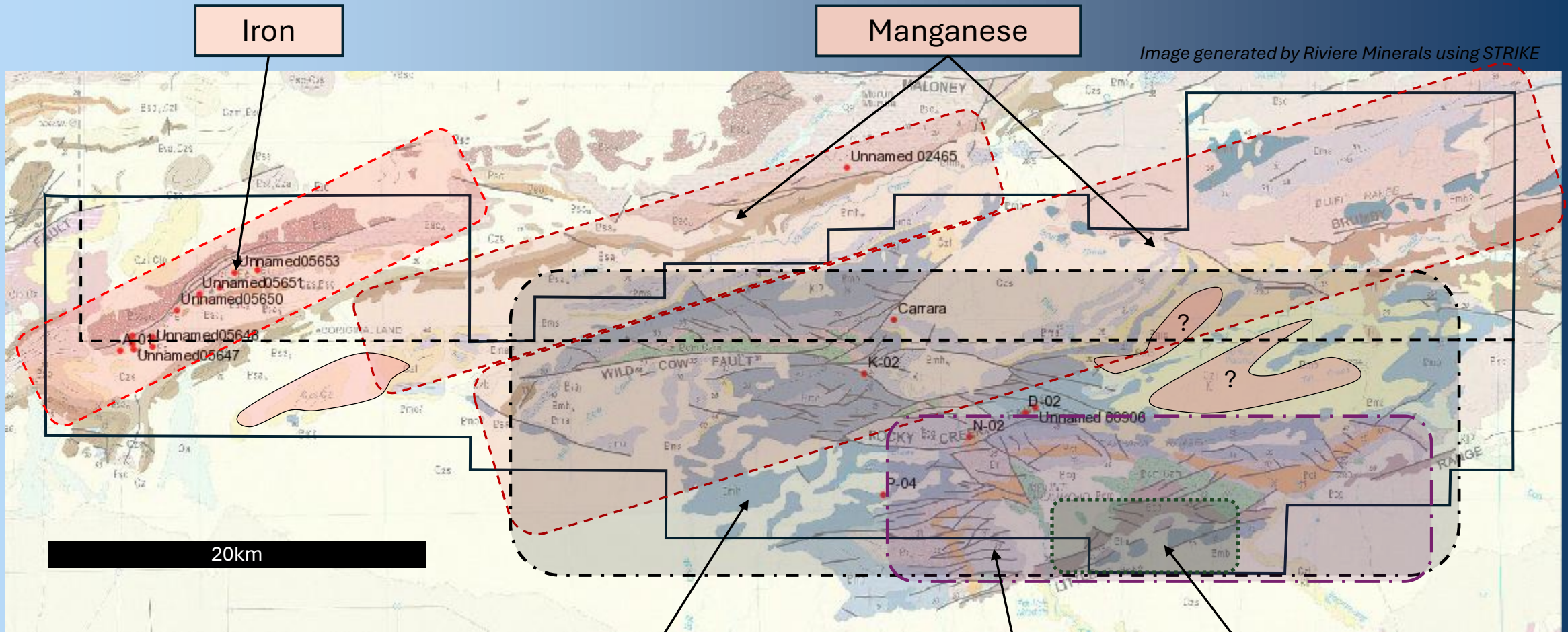
## Key Takeaways:

- Large Project area (50% granted; and in good standing)
- Province has had a major geological rethink (led by Geoscience Australia) which has materially increased the mineral prospectivity of the area
- **Project area hosts ±75km strike length of Plain Creek Formation** which is highly prospective for **Bootu Creek type manganese mineralisation**
- **Project area hosts favourable sediments for SEDEX mineralisation** (now correlated to the QLD Lawn Hill Platform), major structures, and several magnetic targets warranting investigation
- **Hosts 30km strike length of Top Rocky Rhyolite** with high radiometric signature which is highly prospective for **Westmoreland type (Athabasca Basin type) unconformity uranium mineralisation**
- Hosts 10km strike length of Burangoo Sandstone Member with known iron mineralisation
- Hosts 8km strike length of fault-controlled Murphy Metamorphics which has the potential for tin mineralisation

The Carrara Range is a multi-commodity project with various high levels of prospectivity warranting further exploration. Its potential for Pb-Zn and U mineralisation is a priority.



## Commodity Search Areas of the Carrara Range Project



## SEDEX Pb-Zn

# Uranium

Tin



# Recommended Next Steps at the Carrara Range Project

- *There is potential for Bootu Hill type Mn mineralisation associated with the Plain Creek Formation*
- *There is potential for Tier-1 SEDEX mineralisation associated with Lawn Hill Platform sediments and geophysical anomalies*
- *There is potential for Westmoreland like uranium mineralisation associated with the Don Creek Formation (and potentially the Don Creek Formation)*

An exploration program to cover all three Exploration Models may include:

## Phase One

- Project wide detailed AMAGRAD and/or VTEM geophysical survey (SEDEX, U)
- Detailed mapping (with spectrometers/Scintillometers) and geochemical sampling (stream/rockchip) of the Plain Creek Formation (Mn), Top Rocky Rhyolite (U) and Don Creek Formation (U)

## Phase Two

- Follow-up ground geophysics to tighten target footprint
- Follow-up geochemical sampling (grid soil) in areas of interest have poor levels of exposed rock
- First-pass drill to test possible Mn, Pb-Zn and U targets

