



GRANTS LITHIUM PROJECT

Environmental Impact Statement

Appendix Q

Typhonium praetermissum

survey report

Prepared by EcOz

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Typhonium praetermissum
survey report
Grants Project
Core Exploration



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1 INTRODUCTION

Grants Lithium Project is located 500 m south of the Cox Peninsula Road, approximately 36 km to the west of Berry Springs township. The location is shown on Figure 1-1. The Project area is surrounded by undeveloped Vacant Crown Land. Currently, the main land-use is mining exploration.

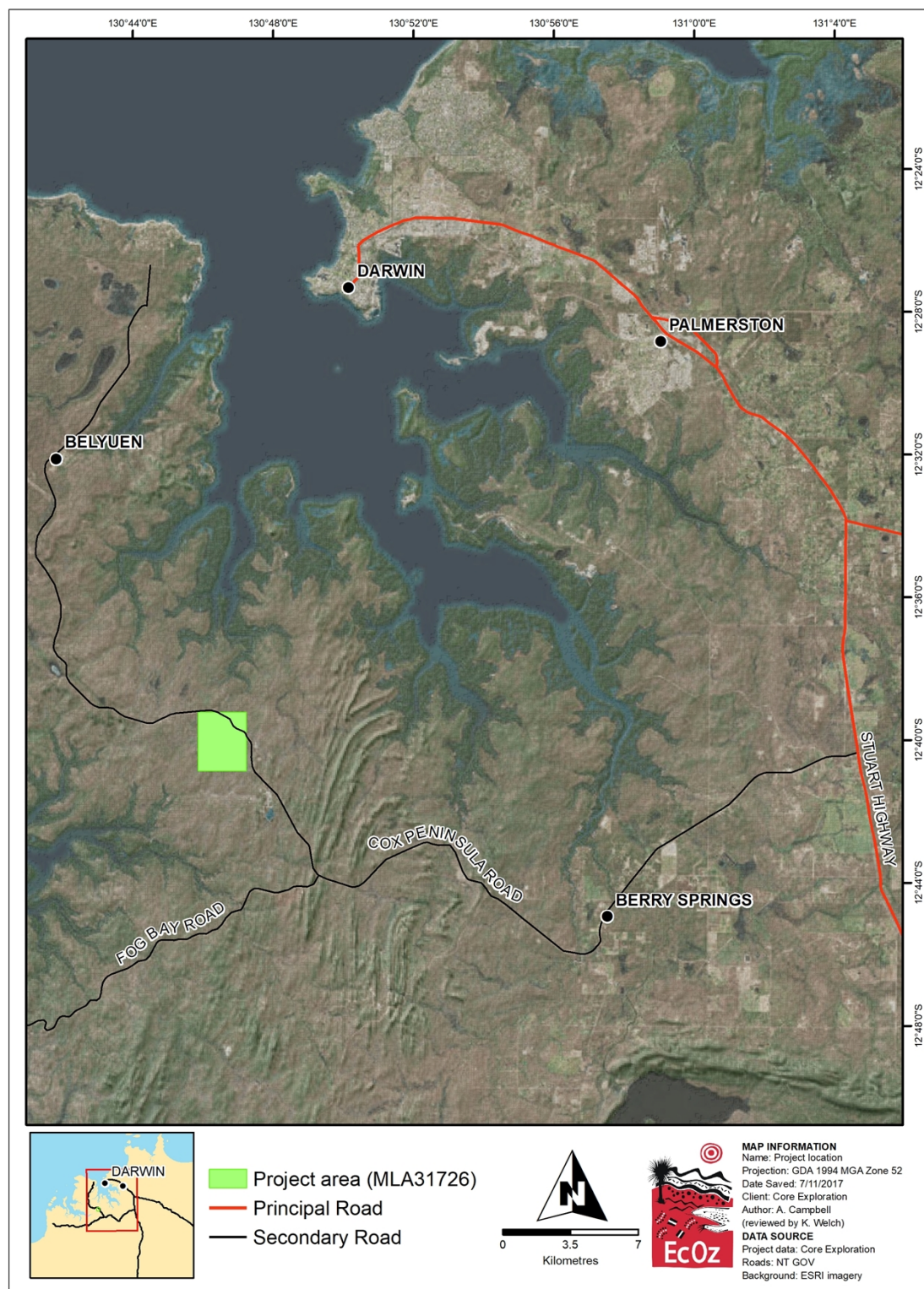
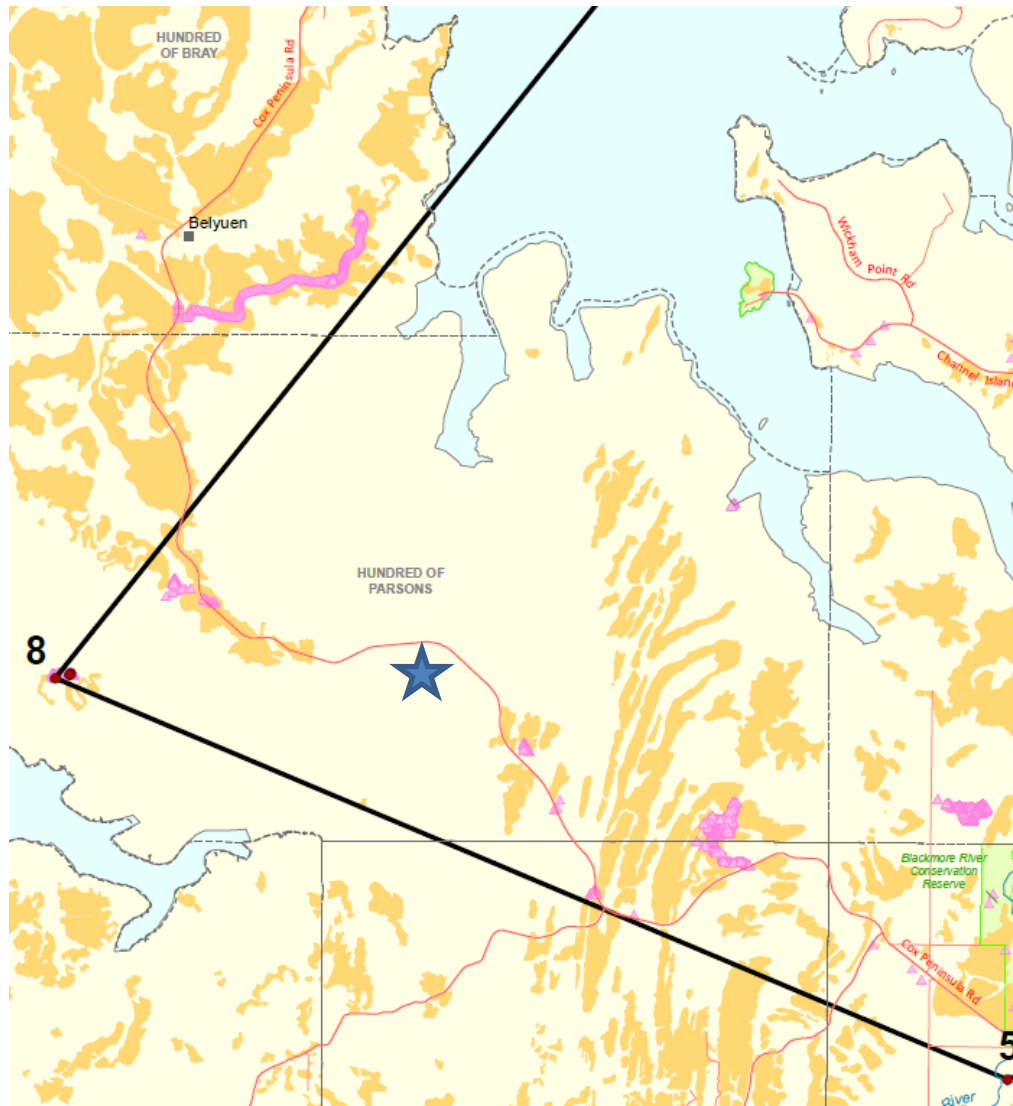


Figure 1-1. Map showing location of Grants Project

The Northern Territory Herbarium has produced mapping of modelled suitable habitat for *Typhonium praetermissum*. The area of suitable habitat does not include the Project area (Figure 1-2).



Source: Threatened species of the Greater Darwin Region – *Typhonium praetermissum* (DLRM, 2016)
 Star - approximate location of Grants Project in relation to herbarium mapping of potential habitat for *Typhonium praetermissum*.
 Orange – mapped potential habitat of *Typhonium praetermissum* (NT Herbarium)
 Pink triangle – locations of previous surveys with no *T. praetermissum* records
 Red circle – *Typhonium praetermissum* records
 Black lines – Extent of Occurrence of *T. praetermissum*

Figure 1-2. Map showing modelled habitat for *T. praetermissum*

Using the herbarium mapping and available land unit mapping, the desktop environmental assessment indicated that, although unlikely, *T. praetermissum* could potentially occur within the Project area. This was due to the presence of land unit 2a1, within the Project area, which has been found to support *T. praetermissum* in other locations. The Project area is also within the Extent of Occurrence (EoO).

If present within the Project area, *T. praetermissum* is most likely to occur along the margin of the 2a1 land unit, where the eroding low rise creates a gravelly surface adjacent to a low lying wetter area (Figure 1-3).

As a precautionary approach surveys were conducted of these areas within the Project area.



Figure 1-3. Photo showing potential *T. praetermissum* habitat within the Project area

2 METHODS

Surveys were undertaken on 24 January 2018 by EcOz Senior Botanist David van den Hoek, assisted by EcOz Environmental Consultant Aiden Campbell. David has extensive experience conducting botanical surveys, including for *T. praetermissum* and other species within the *Typhonium* genus.

Aerial imagery and available land unit mapping (1:25,000 Greater Darwin Land Units) were used to select potential habitat for the species. Site knowledge, gained during previous vegetation mapping surveys undertaken by EcOz in October 2017, was used to further target the area of survey. The surveyors completed a random meander within these potential habitat areas using ATVs and on foot.

3 RESULTS

T. praetermissum was not recorded during the surveys. The surveys traversed the areas of potential habitat within the Project area, including areas within the project footprint. Survey tracks are shown in Figure 3-1.

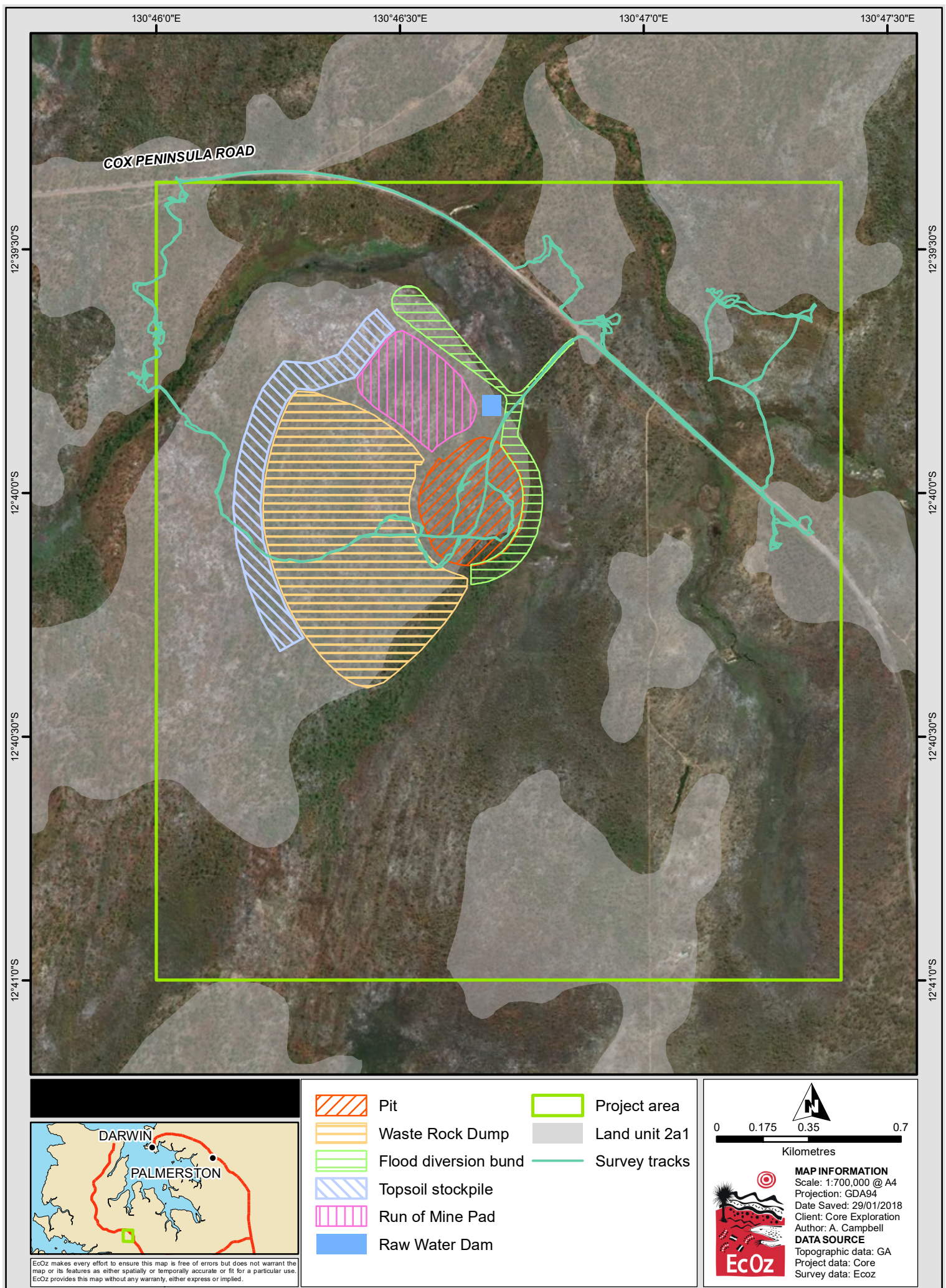


Figure 3-1. Map showing survey tracks from random meander survey



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