



31 March 2026

Mr Russell Hardwick  
Vector Minerals Pty Ltd  
467 Liddelow Road  
BANJUP WA 6164

Via email: [russell@ravenhillcorporate.com.au](mailto:russell@ravenhillcorporate.com.au)

Dear Mr Hardwick

**Notification of Approved Exploration Program for Environment Protection and Rehabilitation (EPEPR)**

In reference to your final submission dated 2 March 2026, the EPEPR has been approved pursuant to section 70B(5) of the [Mining Act 1971](#) (the Mining Act).

The approved EPEPR will be made publicly available on the Mining Register and the Department for Energy and Mining (DEM) website. Details of the approved EPEPR are listed below.

<b>Approval Granted to</b>	<b>Vector Minerals Pty Ltd</b>
<b>Tenement Type &amp; Number</b>	Exploration Licence EL7053
<b>Program Number</b>	EP-04050
<b>EPEPR Description</b>	Testing two basement gravity anomaly targets by diamond drillholes with mud rotary pre-collars.

You are reminded that you must always implement and comply with this approved EPEPR.

This approval does not constitute endorsement of the systems that you have in place to manage the mining operations in compliance with the Mining Act. Whilst your capability to undertake this activity has been considered in this approval, the responsibility for compliance with the Mining Act always remains with the tenement holder.

The legislative requirements associated with the EPEPR are outlined below, and certain requirements must be actioned prior to commencement of operations authorised by the EPEPR.

<b>1</b>	<b>Rehabilitation Bond</b> DEM has determined the rehabilitation liability estimate to be \$7,000 based on the information you have provided. Accordingly, a bond of <b>\$7,000</b> be entered into with the Minister for Energy and Mining. This bond will be formally requested through separate correspondence. The bond must be entered into before authorised operations can commence.
<b>2</b>	<b>Public Liability Insurance</b>



	Pursuant to Regulation 81 of the <a href="#">Mining Regulations 2020</a> (the Mining Regulations), you are required to provide a copy of a certificate evidencing the insurance coverage over the tenement(s).
<b>3</b>	<b>Land Access</b> EL 7053 is subject to exempt land under the Mining Act. You are reminded that in accordance with section 9AA of the Mining Act, operations are not authorised to occur on exempt land, until such time as a waiver of exemption is in place.
<b>4</b>	<b>Compliance Reporting</b> You are required to submit an annual exploration compliance report. The report is required to be submitted <b>within 2 months</b> after the anniversary of the date the licence was granted, or in accordance with joint reporting requirements agreed to with the Minister. Please refer to the DEM <a href="#">website</a> for more information on the reporting requirements.  You are reminded that a separate compliance report is required <b>2 months after</b> the expiry or surrender of the EL.
<b>5</b>	<b>Work, Health and Safety Compliance</b> In accordance with Chapter 10 of the <i>Work Health and Safety Regulations 2012 (SA)</i> , you must meet the requirements for mine operators in South Australia, which include a notification for mining operations, the establishment of a Safety Management System, the identification of Principal Mining Hazards and development of a Principal Mining Hazard Management Plan. Further information on your responsibilities, including a guide to Chapter 10, and the Mine Operator Notification Form, is available on the <a href="#">SafeWork SA website</a> .
<b>6</b>	<b>EPEPR Timeframe</b> The EPEPR is approved for a period of twelve months from the date of this letter. A further 3 months after expiry of the 12-month period is provided to complete all rehabilitation.

Please note, proposed changes to exploration operations stated in the approved EPEPR may require a EPEPR review to be submitted for assessment. Where a EPEPR review is required, implementation of the operational changes can only occur after the revised EPEPR is approved. Further information on when an exploration PEPR review is required can be found in Departmental guideline [MG22 Conducting mineral exploration](#).

In addition to the requirements under the Mining Act, you are reminded that your operation will have other legislative requirements that you will need to comply with.

If you have any further queries, please contact DEM staff as below:

<b>General enquiries</b>	Jason Perry Senior Assessment Officer, Exploration Regulation <a href="mailto:DEM.exploration@sa.gov.au">DEM.exploration@sa.gov.au</a>
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Yours sincerely

A handwritten signature in black ink, appearing to read 'S. Constable'.

Simon Constable

**DIRECTOR, MINERALS REGULATION**

In accordance with delegated powers and functions

The Department's Regulatory Guidelines, Ministerial Determinations and Information Sheets are available at:  
<https://energymining.sa.gov.au/industry/minerals-and-mining/forms-legislation-and-guidance>

# Exploration PEPR - EPEPR | 12 Month PEPR

Reference Number: EP-04050 • Status: Assessment

## Select Applicable PEPR

Is historical?

No  Yes

Previous PEPR ID

—

Search PEPRs

—

## Applicant and General Details

### Applicant Details

Michael Rodda

<p><b>Full Name *</b></p> <p>Michael Rodda</p> <p><b>Business Phone</b></p>
<p><b>Mobile Phone</b></p> <p>0433702570</p> <p><b>Email *</b></p> <p><a href="mailto:m.rodde117@gmail.com">m.rodde117@gmail.com</a> (<a href="mailto:m.rodde117@gmail.com">mailto:m.rodde117@gmail.com</a>)</p>

### Project Supervisor

Derek Marshall - Head of Exploration - Vector Minerals

## General Details

### Tenement Details \*

Tenement Type	Tenement Name	Tenement Holder
Exploration Licence	EL 7053	Vector Minerals Pty Ltd

### Operating Company

Vector Minerals Pty Ltd

If there is another Operating Company, please provide

Account Name	Entity Type	Registered Address	Registered Email
There are no records to display.			

### Project/prospect name

Wandearah IOCG Project

### Mineral Model

Vector Minerals is exploring for Copper-Gold mineralisation in the Wandearah region, hosted in the basement rocks of the Gawler Craton. The targeted mineralisation model is Carrapateena style hematite Iron Oxide Copper Gold deposits.

### Primary Commodities \*

Commodity Name ↑	Commodity Group	Grade
Copper	Exploration	
Gold	Exploration	

### Secondary Commodities

Commodity Name ↑	Commodity Group	Grade
There are no records to display.		

## Project Description

Vector Minerals is planning to test two basement gravity anomaly targets (prospective for IOCG style mineralisation) within the tenement.

These targets will be tested by diamond drillholes with mud rotary pre-collars. Basement is expected to be within 350-500m of cover, so total depth of the holes is likely to be 600-800m.

Vector Minerals is planning to complete these in Q2 2026 over the course of two months.

## Proposed Project Schedule

### Start Date

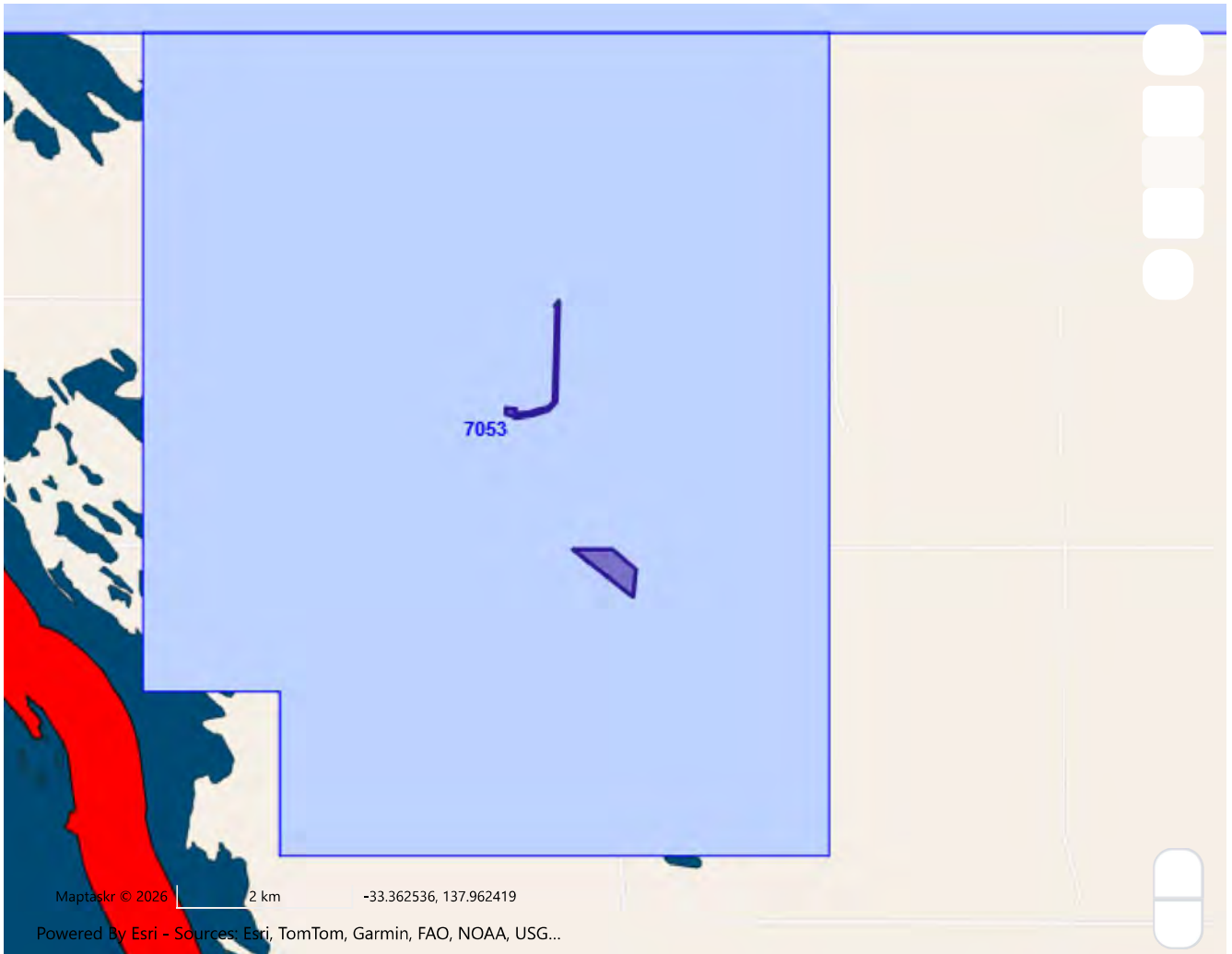
31/03/2026

### End date

29/06/2026

Clearly describe why a PEPR review is required, summarise all content changes made to the approved PEPR, and provide appropriate justification where a time extension is required.

## Identify Application Area



## Map Layer Intersects

### Application Area Details

#### Location Description

Wandearah area approximately 25km south of Port Pirie

#### Area (Sqkm)

0,22

### Spatial Data Intersects - Summary Table

Show  entries

Search:

Spatial Layer Name	Category	Referral	Intersect Count
1:250K mapsheets	Other		3
Cadastral Parcels	Other		3
Determinations of Native Title	Other		3
Exploration licences (mineral/opal)	No-Go Area		3

Spatial Layer Name	Category	Referral	Intersect Count
Registered and Notified ILUAs	Other		3

Showing 1 to 5 of 5 entries

Previous 1 Next

### Spatial Data Intersects - Details Table

Show 10 entries

Search:

Spatial Layer Name	Shape	Primary Attribute	All Attributes	Category
1:250K mapsheets	Shape 1	WHYALLA	<a href="#">View attributes</a>	Other
1:250K mapsheets	Shape 1	WHYALLA	<a href="#">View attributes</a>	Other
1:250K mapsheets	Shape 1	WHYALLA	<a href="#">View attributes</a>	Other
Cadastral Parcels	Shape 1	D52703AL2	<a href="#">View attributes</a>	Other
Cadastral Parcels	Shape 1	D52703AL2	<a href="#">View attributes</a>	Other
Cadastral Parcels	Shape 1	H241200SE74E	<a href="#">View attributes</a>	Other
Determinations of Native Title	Shape 1	Nukunu Part A	<a href="#">View attributes</a>	Other
Determinations of Native Title	Shape 1	Nukunu Part A	<a href="#">View attributes</a>	Other
Determinations of Native Title	Shape 1	Nukunu Part A	<a href="#">View attributes</a>	Other
Exploration licences (mineral/opal)	Shape 1	EL 7053	<a href="#">View attributes</a>	No-Go Area

Showing 1 to 10 of 15 entries

Previous 1 2 Next

## Program Preparation

## Work undertaken in preparing the proposal

Initial site visit/consultation with Landholder 1 on 17/09/25. Landholder was helpful and briefly inspected the prime target site with Vector Minerals representatives. Informed us of nearby water mains access point that could be used during drilling.

Land Access Agreement/Waiver signed with Landholder 1 on 11/11/25.

Initial online zoom meeting with DEM representative and Vector Minerals enquiring about exploration and regulatory process in South Australia

Review of relevant online GIS platforms such as NatureMaps, EPBC Protected Matters and Groundwater Dependent Ecosystems Atlas

Desktop review of historical drilling results for potential ground water encountered drilling drilling

- EL 519/880 - Drilling done in 80s by NBH
- EL 2749/3876 - Drilling done by Avoca/Rex
- EL 6310 - Drilling done by IGO

Drilling quotes and discussions with multiple drilling companies. Follow up queries with DDH1 regarding approach done for historical IGO drilling and recommended drillhole construction.

## Operator Capability

- Vectors management and board are highly experienced mineral exploration personnel who have the ability to supervise and execute a mineral exploration program from planning to rehabilitation

- Project Supervisor Derek Marshall has over 19 years experience in exploration, has previously served as Superintendent Exploration for Havieron at Newcrest, and is currently CEO of Trek Metals (ASX:TKM)

- Vector Minerals has manuals and operating procedures in place that will allow us to successfully manage the proposed exploration program in accordance with the PEPR conditions

- Policies

- Environmental Policy
- Risk Management Policy
- Health & Safety Policy

- Standard Operating Procedures

- Community Engagement
- Medical Emergency
- Complaints
- Safe Working Practices
- Biosecurity / Weed Management

- Forms

- Job Safety Analysis
- Vehicle Inspection

- Registers

- Community / Stakeholder Communication & Complaints
- HSE Incident
- Washdown/Vehicle Inspection

Vector Minerals has (in response to the development of this PEPR) initiated the development of specific procedures to manage compliance with local conditions at Wandearah including:

- Site Induction
- Working In Paddocks & Exempt Land
- Local Weeds Of Significance
- Safe Driving Between Site And Accommodation

## Lease Conditions

N/A

## Land Access

## Identify the Owners of Land and authority to access land

Land Title Reference	Plan Parcel Reference	Type of Land	Owner of Land ↑	Land Access Authorisation Method	Date of Form 21 or Agreement Signed	Instrument or Uploaded Document Id	Uncheck land not applicable to your application ar
CT 5708/22	D52703 AL2	Freehold	Kincora Farm Pty Ltd	Land Access Agreement	10/11/2025	NT-01141	Checked
CT 5519/468	H24120 0SE74E	Freehold	Kincora Farm Pty Ltd	Land Access Agreement	10/11/2025	NT-01141	Checked

## Is any of the application area over a road, street or highway

No

## Woomera Prohibited Area (WPA)

### Will activities be conducted within the WPA

No

### In which zone will activities be conducted?

Name	Are you intending to undertake work?	Closure start date	Closure end date
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There are no records to display.

### Does the tenement holder hold a valid and current Resource Exploration Permit under the WPA Rule?

—

Permit No.

—

What is the expiry date of the permit?

—

### Does the Exploration Permit allow the operator to conduct exploration operations in the WPA?

—

## Other Land Owned or Controlled by the Commonwealth Department of Defence

Indicate if you are intending to undertake exploration operations within the identified defence land

No

#### Other Commonwealth defence land

Defence Land	Applicable
There are no records to display.	

Do you have a Deed of Access with Defence?

—

Expiry date of the Deed of Access

—

Date the Range Control Officer granted permission to conduct the proposed exploration operations.

—

Describe the results of consultation and how any concerns raised were addressed

—

#### Native Title

Does 'Native Title land' exist within the application area?

No

Using the table below, describe how you have complied with the requirements of Part 9B of the Mining Act for each tenement.

Name of Determined / Claimant Group	Agreement Type	Instrument Number	Applicable
Nukunu Part A			No
Nukunu Area 1 Settlement ILUA			No

Provide any additional relevant information

—

#### Exempt Land

Exempt Land

## Has Exempt land been identified?

Yes

If a "Waiver of Exemption" has been reached to waive the benefit of the exemption, a notice of the agreement must be given to the Mining Registrar, either within 21 days after the agreement was entered into or when an application for the mineral tenement is made under the Mining Act.

**In the table below enter the relevant instrument numbers for any Form 23C - Notice of wavier of exemption provided to the Mining Registrar.\***

Land Title	Plan Parcel	Owner of Land that has benefit of exemption ↑	Why is the land exempt land?	Waiver of exemption(s) been negotiated	Instrument Number or Uploaded Document Id
CT 5519/468	H241200 SE74E	Kincora Farm Pty Ltd	Cultivated Field, plantation, orchard or vineyard	Yes	NT-01141
CT 5708/22	D52703A L2	Kincora Farm Pty Ltd	Cultivated Field, plantation, orchard or vineyard	Yes	NT-01141

## Exempt Land Plan ⓘ

File Name	File Size (Mb)	Created On	Download	Expand/Collapse
ExemptLandMap_VectorMinerals_Wandearah_310126.png	2.29 Mb	02-02-2026 15:23:20	<a href="#">Download (MERS/EP-04050/Land Access and Consultation/Exempt Land/ExemptLandMap_VectorMinerals_Wandearah_310126_2026-02-02T04-53-21.419Z.png)</a>	

## Consultation

## Consultation

Stakeholder ↑	Land Use	Matters raised	Stakeholder concerns raised and how addressed
Kincora Farm Pty Ltd	Cultivated Land	No concerns raised during meetings. IGO previously drilled on his property for the Copper Coast project and he had no problems with how they operated. Landholder was happy for Vector Minerals to follow the same structure for land access.	
Kincora Farm Pty Ltd			
Landholder 2	Residential	Met to discuss using a property in the region as short stay accommodation + use the shed as a core logging area. Landholder 2 has previously accommodated exploration & drilling personnel during IGO drilling in 2022. Open to the same arrangement pending more firm details regarding dates.	N/A

**If any individual or group of similar affected persons were not able to be consulted, what steps were taken to consult with them?**

**Provide any additional relevant information.**

No access to land will be made without appropriate NOE's (or land access agreements) served and in place

No access to land will be made without exempt land waivers in place.

**Describe any council policies (or out of council) or development plans that may impact the program area and a description of any known plans for future land use changes by other parties.**

## Description of Environment

### Proximity to Infrastructure and Housing

**Provide the following information:**

**Settlements**

Target area is equally situated between Port Broughton, Port Pirie and Crystal Brook.

Port Broughton is located 24km to the south and has a population of 1,134 as per 2021 census.

Port Pirie is located 25km to the north and has a population of 13,896 as per 2021 census.

Crystal Brook is located approximately 23km to the East with a population of 1,322 as per 2021 census.

Nearest property to drill target T2 is approximately 1km NE.

Nearest properties to drill target T1 is approx 1km W and 1km to the ENE

**Roads and Tracks.**

Drill targets are located in a local landholders paddocks. Both drill targets are under the same landholder in different paddocks. Access to each of the locations is from either Wandearah Road or Old Broughton Road, both are unsealed council roads.

**Other human infrastructure**

Nearest hospitals, schools and other significant industrial/commercial sites are located in Port Broughton or Port Pirie.

The same identified residential properties closest to target drilling sites also contain agricultural infrastructure like sheds and cattle yard fencing.

Throughout the tenement area are numerous historical exploration drillhole sites. Most have been rehabilitated, however one has been converted into a water bore.

800m SSE of drill site T1 exists a water mains connection under control by the relevant landholder where drilling will occur. The landholder has given permission for this water mains connection to be able to be used during drilling.

At T2 drill site, there is a power line 200m to the west that is running in a N-S direction. There are also two power lines running through the paddocks that would be used to access the T2 drill site.

At T1 drill site, there are no known power lines nearby, with the nearest one being approximately 1km to the W and also 1km to the NE.

There are no known gas pipelines in the area.

**Attach Files** ⓘ

File Name	File Size (Mb)	Created On	Download	Expand/Collapse
DrillTargetsNearbyInfra_VectorMinerals_Wandearah_310126.png	2.68 Mb	31-01-2026 14:49:28	<a href="#">Download (MERS/EP-04050/Proximity to infrastructure/DrillTargetsNearbyInfra_VectorMinerals_Wandearah_310126_2026-01-31T04-19-28.905Z.png)</a>	
RegionalSetting_VectorMinerals_Wandearah_310126.png	3.41 Mb	02-02-2026 16:26:52	<a href="#">Download (MERS/EP-04050/Proximity to infrastructure/RegionalSetting_VectorMinerals_Wandearah_310126_2026-02-02T05-56-52.940Z.png)</a>	

## Landform, topography, soil and surface cover

Describe the topography and soil and surface cover (e.g. gibber) of the general area affected by the exploration program. Include details on the susceptibility to compaction, erosion, dust, runoff and visual attributes (steep or undulating slopes, plains, rocky outcrops, dunes, salt pans, clay pans etc) any other characteristics (e.g. acid sulphate soils) that may require control strategies to reduce environmental impacts during operations or rehabilitation.

The bulk of the targeted area is cleared agricultural land, classified as dryland agricultural under NatureMaps. The cleared agricultural land within the targeted area is flat with some gently undulating parts. Minor NW-SE trending longitudinal dunes are present on the south side of Mallee Road. In between the two drillhole targets is a flat plain of native shrub vegetation.

According to NatureMaps GIS Maps, gully and water erosion susceptibility is considered negligible. Wind erosion potential is classified as moderate.

Both drill targets are within the Wood Point Land System (WOP). The WOP is stated as "low sandhill country with marginally to highly saline swales and flats" Within the WOP system, calcareous soils are dominant, varying from deep sands to deep loams with clayey subsoils, rubbly and non rubbly sandy loams and sandy clay loams. The medium textured soils of saline flats and swamps are also calcareous.

Drilling activities will be focused on two targets within the cropped/grazing paddocks and not on the erosion susceptible sand dunes.

Soil Land Type for most of the tenement are Dune/Swale systems with mainly neutral to alkaline, unbleached siliceous sand with calcareous subsoil on dunes. 100m north of the northern drill target, the soil type is classified as forming from outwash sediments derived from basement rock highs

Acid sulphate soil potential over both target sites is considered moderate. Boron & Sodium accumulation is considered moderate. No sumps will be dug and no earthworks will be required at the drill targets.

Attach Files 

[Expand/Collapse](#)

File Name	File Size (Mb)	Created On	Download
No Files Uploaded			

## Surface Water

Will the proposed program interfere with surface water bodies and natural drainage (e.g. drainage lines, creeks, floodplains, wetlands)?

No

Describe the potential interference and surface water bodies and natural drainage on maps.

Indicate how you will avoid disturbance

Drill targets are on flat cleared land, where no earthworks will be required for drill pads. Identified drilling areas are not in any immediate proximity to surface water bodies/drainage lines.

Is the program area located within water protection areas defined under the River Murray Act 2003?

No

Select the name(s) of protected water areas

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Is the program area located within any prescribed watercourses or prescribed surface water areas under the Landscape?

No

Select the name(s) of the prescribed watercourses or prescribed surface water areas under the Landscape South Australia Act 2019.

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Attach Files 

[Expand/Collapse](#)

File Name	File Size (Mb)	Created On	Download
No Files Uploaded			

Name	Applicable
There are no records to display.	

## Groundwater

Is groundwater likely to be intersected when conducting the exploration program?

Yes

Provide evidence or any supporting information demonstrating this.

## Description of the localities/areas where different groundwater conditions may be encountered

Of the water wells between Port Broughton and Port Pirie, the vast majority have the source of ground water within close to surface Quaternary alluvial/fluvial sediments.

In terms of the closest bores to the drill targets, the following applies:

Bore 6431-41 is located 1.5km NW of drillsite T2. This was drilled in 1975 (As PWD-3) to a depth of 100m. TDS values of 7870 mg/L were recorded in 1975. Yield in 1975 was 10L/sec. SARIG listed this as operational and for livestock purposes. Aquifer monitored is Tertiary (Gibbon beds) and Holocene alluvial/fluvial sediments.

Bore 6431-42 is located 5.3km S of drillsite T1. This was drilled in 1975 (As PWD-1) to a depth of 76m and is listed in SARIG as abandoned. TDS was 19721mg/L with a yield of 2.3 L/s. Aquifer is listed as Neoproterozoic.

Subsequent review of the original exploration report (ENV02630 pg36) indicated the groundwater intersected in PWD-1/PWD-3 was confined/pressurised aquifers near the bottom of the hole.

Bore 6531-1843 is located 4.3km SE of drillsite T1. Drilled to 8.94m depth in 2006 with a RSWL of 16.77 mAHD and TDS of 40740 mg/L. Aquifer is holocene alluvial/fluvial sediments.

To the north west, approximately 5.2km from drillsite T2, Bore 6531-574 was drilled in 1949. RSWL was 20.8 mAHD and TDS was 7997 mg/L. Aquifer monitored is Qpap - Pooraka Formation.

Further NW of this borehole are numerous water wells, all likely related to being in close proximity to the Broughton River.

A Map is attached ("Waterwells\_VectorMinerals\_Wandearah\_310126") that shows the known water wells that have groundwater information public.

Add the different groundwater conditions for each localities/areas to the table below.

Name ↑	Formation age and/or stratigraphic unit	Stratigraphic intervals (depth range) (m)	Aquifer formation name	Aquifer Interval/thickness (from-to) (m)	Aquifer Type	Aquifer salinity (TDS)	Depth to groundwater (m)	Comments
Wandearah	Holocene alluvial/fluiv sediments - St Kilda Formation	100	Holocene alluvial/fluiv al sediments - St Kilda Formation	64-?	Unconfined	40740	64	Based on Bore 6531- 1843
Wandearah	Tertiary - Gibbon Beds	50	?Tertiary - Gibbon Beds	30	Confined	7870	70	
Wandearah	Neoproterozoic	100	? Neoproterozoic	5	Confined	19721	70	Listed as neoproterozoic, yet original 1975 logs indicate this was still tertiary, so unclear if this actually is Neoproterozoic, or similar to the confined aquifer intersected in Tertiary Gibbon Beds in PWD- 3
Wandearah	Pooraka Formation - Quaternary	20	?Pooraka Formation	15	Unconfined	7997	5	

**Provide the environmental value of each aquifer present determined according to the current Environment Protection (Water Quality) Policy.**

Based on the closest bore (6431-41), the combined Tertiary/Quaternary aquifer intersected has a TDS of 7870mg/L which would put it under the Water Quality policy category of "Primary Industries - livestock drinking water"

The "Neoproterozoic" confined aquifer has a TDS of 19721mg/L which does not have an environmental value.

The unconfined ground water intersected in the "Holocene alluvial/fluvial sediments - St Kilda Formation" has a TDS of 40740mg/L, which does not have an environmental value listed.

**Provide a description of the existence, location and value of all Groundwater Dependent Ecosystems (GDE) within and immediately surrounding the project area**

According to the BoM Ground Dependant Atlas, there are isolated aquatic "Wetland - Lacustrine" GDEs scattered around the two target sites, classified as "High Potential GDE".

In similar locations to the high potential aquatic GDEs, moderate potential terrestrial GDEs are identified on the Ground Dependent Atlas. Ecotype is classified as "Vegetation - Shrubland"

Drillsite T2 is approximately 50m to the North of one of these "high potential" aquatic GDEs & "moderate potential" terrestrial GDEs. This correlates to the uncleared area of saltbush/shrubs occasionally scattered between the landholders paddocks. See Attached Photo Two of this type of environment. No drilling will occur in these uncleared saltbush regions.

**Is the proposed program located within a prescribed wells area?**

No

**Select the prescribed wells**

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**Is the proposed program located within a prescribed water resource area?**

No

**Select the prescribed water resource areas**

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**Provide any additional information**

**Attach Files** ⓘ

File Name	File Size (Mb)	Created On	Download	Expand/Collapse
AquaticGDE_VectorMinerals_Wandearah_310126.png	0.61 Mb	03-02-2026 12:33:26	<a href="#">Download (MERS/EP-04050/Ground water/AquaticGDE_VectorMinerals_Wandearah_310126_2026-02-03T02-03-27.767Z.png)</a>	

File Name	File Size (Mb)	Created On	Download
TerrestrialGDE_VectorMinerals_Wandearah_310126.png	0.63 Mb	03-02-2026 12:33:26	<a href="#">Download (MERS/EP-04050/Groundwater/TerrestrialGDE_VectorMinerals_Wandearah_310126_2026-02-03T02-03-27.768Z.png)</a>
Waterwells_VectorMinerals_Wandearah_310126.png	2.79 Mb	04-02-2026 12:30:50	<a href="#">Download (MERS/EP-04050/Groundwater/Waterwells_VectorMinerals_Wandearah_310126_2026-02-04T02-00-51.972Z.png)</a>

## Native Vegetation

Will you be working within areas of native vegetation?

Yes

Provide the following information:

- (Yes for native vegetation selected to allow Fauna question to show up as per RFI)

Indicate why you will not be working within areas of native vegetation?

The two drill target areas are within cleared cropped and grazing land. All drilling activities and pad areas will be within paddock areas. Access into these paddocks are direct from unsealed council roads. No traversal through native vegetation will be required. No earthworks are required for drill pad preparation.

Minor woody native vegetation exists alongside the roadside areas at Old Broughton Road and Mallee Road, however all drilling vehicles/equipment will go through existing road access areas onto the paddock.

Attach Files 

[Expand/Collapse](#)

File Name	File Size (Mb)	Created On	Download
No Files Uploaded			

## Fauna

**Describe the native and feral fauna that may be present in the application area, including feral species.**

According to NatureMaps, mammalian fauna spotted in the local region include the Red Kangaroo, Western Grey Kangaroo, Wallaroo and the European Rabbit.

Reptiles present include the Sleepy Lizard, Central Bearded Dragon, Mallee Snake-eye, Common Snake-eye, Tiger Snake, Common Dwarf Skink, Southern Four-toed Slider and the Three-toed Earless Skink.

Numerous bird species are present within the Port Broughton-Port Pirie-Crystal Brook region. Locally near the target areas, bird species observed include the Galah, House Sparrow, Common Starling, Banded Lapwing, Spotted Harrier, Magpie Lark and the Crested Pigeon.

**Significant Habitats, Flora & Fauna**

Are there any significant habitats, flora and fauna within the project area?

No

Use the table below to list any significant habitats and any rare or endangered flora and fauna species located or reported to have been in the area that may be impacted by the proposed program. Include known sightings of listed species on a locality plan/map.

Species name/habitat	Common name	NPW Act Rating	EBPC Act Rating
There are no records to display.			

**Attach Files** ⓘ

[Expand/Collapse](#)

File Name	File Size (Mb)	Created On	Download
No Files Uploaded			

**Weeds and Pathogens**

Provide information of the extent the area is affected or potentially affected by weeds and pathogens (e.g. phytophthora; buffel grass *Cenchrus ciliaris*).

According to NatureMaps Weeds of National Significance Layer, there are no weeds close to/within the target areas.

*Lycium ferocissimum* - African Boxthorn's closest occurrence to T1/T2 targets is approximately 3km to the North along Old Broughton Road. This is the most common Weed of National Significance within the general Wandearah - Port Pirie - Port Broughton - Crystal Brook region. There is also a cluster of African Boxthorn sightings from T1/T2 approximately 4km to the south along Old Broughton Road.

Buffel Grass - *Cenchrus ciliaris* has a cluster of locations approximately 9km to the east of the drill sites, last sighted in 2003.

*Asparagus asparagoides* f. has a sighting listed in approximately 11km to the SE in Clements Gap Conservation Park.

Silver Leaf Nightshade has a sighting near Port Pirie Airport, approximately 17km to the north from T2. This sighting was in 1993.

Attach Files 

[Expand/Collapse](#)

File Name	File Size (Mb)	Created On	Download
WeedsOfSignificance_VectorMinerals_Wandearah_310126.png	3.03 Mb	04-02-2026 12:58:32	<a href="#">Download (MERS/EP-04050/Weeds and Pathogens/WeedsOfSignificance_VectorMinerals_Wandearah_310126_2026-02-04T02-28-33.772Z.png)</a>

### Aboriginal Heritage

Describe the steps taken to identify Aboriginal heritage sites within the proposed area of exploration. Include a statement advising if an Aboriginal heritage survey has been conducted by the proponent and if so, the results of the survey.

A search was requested for the project area from the Aboriginal Cultural Heritage Database and Register (Taa Wika).  
No records were found for Aboriginal heritage with the project area.  
Search reference number : 11365

### Environmentally Sensitive Locations

Indicate if you are intending to undertake exploration operations within the environmentally sensitive locations listed.

No

Name	Applicable
There are no records to display.	

Are you likely to impact on the environmentally sensitive area?

—

Detail the likely effects the proposed program may have.

—

Attach Files 

[Expand/Collapse](#)

File Name



File Size (Mb)



Created On



Download



No Files Uploaded

## Exploration Operations

### Equipment and Personnel requirements

Using the table below, describe the maximum composition of field crews (operator, contractors, and geologists) and proposed working hours/days for each type of activity.

Type of Personnel	Number	Name of contractor company (if applicable)
Geologists	1	Vector Minerals
Field assistants/technicians	1	Vector Minerals
Drilling Crew	6	Drilling Company

Shifts worked per day	Hours worked per day	Days worked per week
2	24	7

Using the table below, describe the equipment (size, number and contractor details) required to conduct the proposed operations.

Name	Owner/Operator	Description/capacity	Activity/purpose
Sandvik (DE880 or DE 840) truck mounted drill rig (or equivalent)	Drilling Company	Drilling	MR Pre-Collar, Diamond Tail
8WD Rod Truck, 4WD Fuel/Crack Truck	Drilling Company	Various support activities for drill rig, drill rod and fuel supply	Support vehicles
4WD light vehicles	Vector/Drilling Company	Various low impact support activities, personnel transfer, core transfer	Support Vehicles
4WD Firefighting Unit	Vector (rented from Landholder)	4WD Landcruiser fitted with firefighting equipment	Firefighting

### Low impact exploration activities

Will low impact exploration operations be conducted that are not covered by the Generic program for environment protection and rehabilitation – low impact mineral exploration in South Australia, (generic PEPR)?

No

Describe each type of low impact operations proposed.

## Drilling Operations

Will exploration drilling Operations be conducted?

Yes

Fill out the below table

Tenement	Drilling Types	Maximum number of drillholes	Maximum drillhole depth (m)	Number of drill pads	Maximum number of sumps required at each site	Maximum size of sumps (length x depth x width)	Average size of each drill pad	Number of sites requiring pad excavation	Average volume of material to be excavated
EL 7053	Rotary Mud with Diamond Tails	2	800.00	2	0	0.00	500.00	0	0.00

Other Drilling Method(s)

## Drillsite preparation

If exploration drilling activities are proposed, describe the methods used to prepare sites, including vegetation clearance requirements, site levelling and digging of sumps.

Both drilling target sites are on cleared paddocks of the same landholder, so no clearing of vegetation is required. Both sites are on even land, requiring no levelling earth works.

Coconut matting (or equivalent as specified by landowner request) will be used to lay out a protective layer over the entire drill pad site to reduce compaction on paddock soil.

No digging of sumps will be done as above-ground sumps will be used.

In addition, plastic sheeting will be laid out above the coconut matting around the drill rig and above ground tanks to control any groundwater that may be encountered.

No on-site preparation will be required for geological/logging of drill core samples as these will be transported off site to a nearby shed on Spencer Highway that will be used for logging.

## Drillhole construction and decommissioning

Drillhole construction and decommissioning

See below.

**Have the personnel responsible for implementing the proposed program read and understood the Earth Resources Information Sheet M21, Mineral exploration drillholes – general specifications for construction and backfilling?**

Yes

**Describe how drillholes will be constructed, including the casing material to be used, depth of casing, if the casing will be cemented, cementing intervals and the class of driller that will install the casing.**

Drilling construction will use the same strategies employed in the historical IGO Mud Rotary + Diamond drilling completed in 2022 as part of an ADI project.

- Holes will be drilled initially with mud rotary to refusal, and grout in Line pipe in light of water loss experienced during IGO drilling
- Depth of refusal is unknown at this point, but Vector is expecting 300-400m (previous IGO drilling was mud rotary until client direction)
- Drill HQ3 to completion
- Drill NQ2 to completion

Based on the proximity of planned drillholes to the historical basement drilling that did not intersect confined aquifers (North Broken Hill PP2-PP20, Rex Minerals WDD-001 - WDD-002, IGO CCDD01-CCD08), only an unconfined aquifer is expected to be potentially encountered and therefore a class 1 driller will be utilised. In the event that a pressurised aquifer is intersected, a class 3 driller will be sourced via the drilling company. Preliminary discussions with one drilling company have indicated that due to the close proximity to Adelaide &3, reaction times to unexpected aquifers will be minimal.

**When describing drillhole decommissioning requirements, include the materials to be used, stratigraphic intervals where cement plugs will be placed, if the casing will be removed and when decommissioning will occur after drilling is completed.**

On completion, the drillhole will be closed with a temporary PVC cap. Once required downhole surveying is completed, final decommissioning will occur and casing will be cut below surface.

In the likely scenario that only an unconfined aquifer is intersected in the quaternary cover for both drillholes, Vector will proceed with the drilling condition as per ISM21. Drill cuttings will be used to backfill the hole, with a native soil mound placed on top.

In the unlikely event that a confined aquifer is intersected, a class three driller will be sourced. If the aquifer intersected is similar to what was intersected by drillhole PWD-3, the confined aquifers will be in the tertiary sand intervals confined by clay intervals (likely Gibbon or Kanaka beds as per 2009-10 Baroota PWRA groundwater status report ). As per ISM21 standards cement grout plugs will be applied to the sand aquifer intervals, with at least 15m of cement grout plug above and below in the clay intervals. Given the interval thicknesses, the entire clay/sand/clay/sand sequence may be plugged with cement grout. Drill cuttings will be used to fill the rest of the hole above the upper most cement plug, with a non degradable plug placed near the surface, covered by native soil.

**Attach Files** ⓘ

[Expand/Collapse](#)

File Name	File Size (Mb)	Created On	Download
ISM21Diagrams_VectorMinerals_020326.png	0.25 Mb	02-03-2026 11:19:32	<a href="#">Download (MERS/EP-04050/Drillhole construction and decommissioning/ISM21Diagrams_VectorMinerals_020326_2026-03-02T00-49-32.929Z.png)</a>

## Costeans and bulk sample disposal pits

Will costeans/bulk sample disposal pits be required for the proposed program?

No

Tenement	Number of costeans/pits	Size of costean (length x width) (m2)	Average depth (m)	Volume excavated (m3)	Total Volume Excavated (m3)	Total area of disturbance
There are no records to display.						

Describe site preparation methods, vegetation clearance, and safety and maintenance requirements

No Costeans/Bulk Sampling will occur.

## Sample management

Describe the size of samples collected (including drilling samples and bulk sampling), collection methods, materials used when collecting the sample, sample disposal methods (including removal of sample bags), safety management and any other sample management requirements at the exploration site (e.g. tarps or matting used to contain cuttings). Include requirements for on-site geological sample management (splitting of archive samples, bag farms, core processing and storage).

Representative mud rotary samples will be stored in chip trays. No bulk sampling will be done, with the rest of the mud rotary product going into above ground sumps and then removed via sucker truck to a local waste facility.

Diamond core will be placed in supplied core trays as retrieved.

Core will then be transported in intervals to the shed that is offsite, where orientation, marking and logging will occur. Core will then be transported to Adelaide where cutting and assaying will take place (if results merit this).

Diamond core and cuttings will be kept by Vector at a storage site as per DEM requirements. Core will be offered to the Tonsley core library if deemed appropriate.

## Access routes to work areas

Will existing tracks require upgrading and/or maintenance?

No

Detail the work required to upgrade/maintain existing tracks.

No upgrading is required.

Entry to T1 target area is immediate after entering the paddock gate, no maintenance of existing tracks will be required.

Entry to T2 target area will be along the boundary of the paddock, no maintenance is required along this path.

### Will access be required across adjoining tenements?

No

Detail the method(s) for gaining access, and if an agreement is in place with all stakeholders. Include the total area of disturbance required (i.e. length (km) and width (m) of tracks) and provide on a locality map.

Access is simple. Both paddocks of the target area can be accessed through paddock gates off unsealed council roads.

Disturbance to target 1 area after leaving council roads would be approximately 3m x 300m

Disturbance to target 2 area after leaving council roads would be approximately 3m x 1600m

### Will access off existing tracks be required?

Yes

Detail the method(s) for gaining access and if vegetation clearance is required. Details of the total area of disturbance (includes drill traverses and seismic lines) required off existing tracks (i.e. length (km) and width (m) of new tracks) must be provided in the program notification.

Entrance into the tenement proximity will be through the Spencer Highway, and then onto unsealed council roads. Entrance into the T2 paddock will likely be through a paddock gate on Wandearah Rd, entering into the paddock from the north side. Access to the drillsite will be around the perimeter of the paddock. As per attached figure, there is a power line that traverses the paddock from west to east. This will not be an issue as the drilling equipment will be approximately the same height as the farming machinery that regularly operate in the area, but this will still be notified to the drilling company as part of the induction.

Entrance into T1 paddock will be through a paddock gate on Old Broughton Rd. Drilling equipment will travel north along the perimeter of the paddock and then straight to the drill pad.

No vegetation clearance will be required in the paddock.

Traversal to T2 site will be approximately 1.6km in the paddock.

Traversal to T1 site will be approximately 0.3km in the paddock.

Note: Paddock fences in attached figure only drawn for T2/T1 target areas and in between.

### Attach Files

[Expand/Collapse](#)

File Name	File Size (Mb)	Created On	Download
TargetAccess_VectorMinerals_Wandearah_310126.png	1.6 Mb	03-02-2026 13:31:28	<a href="#">Download (MERS/EP-04050/Access routes to work areas/TargetAccess_VectorMinerals_Wandearah_310126_2026-02-03T03-01-33.007Z.png)</a>

### Campsites and equipment laydown areas

**Indicate where staff and contractors will be accommodated during the exploration program.**

Likely to be a short term rental house sourced from a local landholder.  
This house was used for a previous companies drilling program accommodation, and Vector Minerals staff met this landholder in person and looked at the house and attached shed (for core logging purposes). This has not been finalised.

As an alternative, accommodation would be at either Port Pirie, Port Broughton or Crystal Brook, all approximately the same distance from the Wandearah project site.

**What is the maximum number of personnel requiring accommodation?**

8

**Is a campsite required to be established?**

No

**Provide a description and justification of the camp location (e.g. previously cleared areas etc.), and any other relevant information.**

—

**What will be the total area (ha) of the campsite(s)?**

—

**Will native vegetation clearance be required?**

No

**What will be the total area (ha) of vegetation clearance for the campsite?**

—

**Describe the methods used to prepare the campsite including vegetation requirements and site levelling.**

—

**Will any excavations be required?**

No

**Describe the purpose of the excavation**

—

**Describe the maximum volume (m<sup>3</sup>) of material to be excavated.**

—

**Provide confirmation that the proposed ablution facilities have been endorsed for use by the Department of Health or local council, where applicable.**

—

**Indicate why endorsement approval is not required by the Department of Health or local council.**

—

**Proposed infrastructure (includes caravans, tents, offices, hydrocarbon and water storage requirements etc)**

<b>Proposed infrastructure</b>	<b>Quantity</b>	<b>Description / capacity</b>
-	0	-

**Will laydown areas be required?**

Yes

**Will the laydown area(s) be located at the same location as the campsite?**

Yes

**Provide a description and justification of the location (e.g. previously cleared areas), and any other relevant information if required.**

A small laydown area for drilling equipment and sampling consumables will be used.

Final location of the laydown area is yet to be finalised, however the priority would be for it to be stored at the core shed area at the rental property expected to be utilised during the program. This is approximately 10min drive to both drilling locations.

If more immediate access is required and the drillsite pad area is not of sufficient size, a centralised laydown area between targets 1 and 2 will be confirmed with the landholder. This would be placed in an already cleared area on a paddock or old storage/shed areas on the landholders property.

**What will be the maximum area (ha) required for the laydown area(s)?**

0.04

**Will native vegetation clearance be required?**

No

**What will be the total area (ha) of vegetation clearance for the site?**

—

**Describe the methods used to prepare the laydown area including vegetation requirements and site levelling.**

—

**Will any excavations be required?**

—

**Describe the purpose of the excavation.**

—

**What will be the volume (m3) of material to be excavated.**

—

**Proposed infrastructure (includes hydrocarbon and water storage requirements)**

Proposed infrastructure	Quantity	Description / capacity
-	0	-
Pallets	5	Pallets containing core trays and other bulk equipment needed for Vector Minerals
Freight Trailer/Shipping Container	1	Drilling equipment (drill rods/casing)

**Attach Files** ⓘ

File Name	File Size (Mb)	Created On	Download	Expand/Collapse
LaydownArea_VectorMinerals_Wandearah_020326.png	2.59 Mb	02-03-2026 11:47:02	<a href="#">Download (MERS/EP-04050/Campsites and equipment laydown areas/LaydownArea_VectorMinerals_Wandearah_020326_2026-03-02T01-17-03.318Z.png)</a>	

**Other exploration methods and/or ancillary operations**

Are any other proposed exploration methods (e.g. seismic) and/or ancillary exploration operations required?

No

Describe the activity(s), site preparation, vegetation clearance, and safety and maintenance requirements.

**Water supply and management**

Will camp and/or drilling water be required?

Yes

Describe how and where water will be sourced for drilling, track maintenance and camping purposes (e.g. groundwater, surface water, mains). Indicate how wastewater and/or runoff water will be managed.

Drilling water for T1 drillsite will be sourced from water mains connection as per agreement with local landholder. A polypipe will be run from the mains point to the drilling location.

Drilling water for T2 drillsite will be sourced from staging tanks via the same water mains connection. This target is in between two historical drillholes (PP18 - 200m NNW & WDD002 - 200m S) that had no unexpected water return issues, so water usage is expected to be limited.

Will surface water and/or mineral drillholes be used as a water source/supply?

No

Indicate if a licence for water extraction/usage is required (refer to relevant Natural Resources Management water allocation plan available on the Department for Environment and Water (DEW) website.

—

Attach a copy of the licence or include a statement confirming that a licence will be obtained before the extraction and/or usage of water.

## Groundwater investigation and water affecting activities

Will any water investigation (e.g. pump testing, water monitoring sites, water storage, turkey nests/dams) and/or water affecting activities, be undertaken (refer to s. 127 of the Landscape South Australia Act 2019)?

No

Describe the water investigation and/or water affecting activities, including site preparation, vegetation clearance, and safety and maintenance requirements.

Indicate if water affecting activities permits (eg well and water extraction/discharge permits) have been obtained and in accordance with the Landscape South Australia Act 2019.

—

### Attached Files

[Expand/Collapse](#)

File Name	File Size (Mb)	Created On	Download
No Files Uploaded			

## Management of hazardous materials

Will activities be conducted in areas of known uranium and thorium mineralisation?

No

### Attach Files

[Expand/Collapse](#)

File Name	File Size (Mb)	Created On	Download
No Files Uploaded			

Will any other hazardous material be encountered when exploring in the area?

No

List the types of hazardous materials and provide a management plan on how these materials will be managed.

## Rehabilitation

**Detail all the activities and strategies relating to the remediation of all impacts associated with the proposed exploration operations (includes exploration camps and laydown areas, tracks). Completion of rehabilitation must be achieved within 3 months after the expiry of each program notification.**

After all post-drilling surveying work has been carried out on each of the drillholes, the PVC cap will be removed. As both drillholes occur on agricultural paddocks, the depth at which the casing is cut and capped for each drillhole will be finalised with the landholder as per their requirements. The collar area will then be covered by native soil.

The drillsite pads themselves (including the collar area) will be returned to a suitable state for agricultural use. The level of work required to achieve this state will be finalised with the landholder after drilling has been completed. This will also apply to the access tracks used along the paddock perimeters.

**State the estimated budget required to rehabilitate all impacted sites. State the estimated budget required to rehabilitate all impacted sites. Include a breakdown of the cost associated with each rehabilitation component**

DEM Rehabilitation Calculator Estimates:

A1059: Minor earthworks to rehabilitate drill pads - 1,000 m2 : \$2,323  
 A1040: Scarification and ripping of haul and access roads - 1.8km : \$1,545  
 A1122: Rehabilitation of 2x 800m drillholes through unconfined rock : \$15,792  
 A1009: Scarification to promote vegetation growth - 1Ha - \$340

Total program costs: \$20,000

Contingency: \$4,000

## Vegetation Clearance

**Will any area of cleared native vegetation be unrehabilitated after the authorised period?**

No

**Provide a map and description of the vegetation present in the application area, the extent of any proposed vegetation clearance and the likelihood of the presence of threatened flora.**

**State the estimated quantum of significant environmental benefit (SEB) to be gained in exchange for the proposed native vegetation clearance and describe how the SEB will be provided.**

## System

Tenement Name ↑	Tenement Holder	Tenement Operators	Grant Date	Expiry Date	Tenement Type	Location Description	Tenement Area	Tenement Status	Shape Identifier
EL 7053	Vector Minerals Pty Ltd		07/03/2025	06/03/2031	Exploration Licence	Wandeara West area, approximately 20 km north of Port Broughton	69.00	Active	10016931-0000

## **Management of Environmental Impacts**

**Applicable environmental aspects and potential impacts**

Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
Groundwater	Groundwater/aquifer	Groundwater contamination: • contamination of aquifers through entry of pollutants from the surface • interconnection between aquifers • degradation of natural hydrostatic conditions (maintain pre-drilling pressures).	Drilling inspector to be notified at least 14 days prior. Drilling to use above ground tanks instead of in ground sumps for drilling requirements. Plastic sheeting to be laid out above coconut matting around the drill rig and above ground tanks. Tanks to be continuously monitored to avoid overflow. Sucker truck to empty tanks if needed. Drilling contractor to have experience in the area and operating towards SA requirements, or has demonstrated experience in similar areas. Close proximity via car to Adelaide allows good reaction times if an unexpected confined aquifer is intersected. Drilling contractor to follow the ISM21 guidelines. If confined aquifers are intersected, they will be cemented to 15m above the confining aquifer.		Drillholes restored to controlling geological conditions that existed before the hole was drilled or, where it is intended to re-enter the hole, the hole must be completed with casing of adequate strength and the casing cemented so that all aquifers are isolated to prevent the movement of any fluids behind the casing.	Maintain evidence demonstrating that drillholes are decommissioned in accordance with Earth Resources Information Sheet M21, Mineral exploration drillholes – general specifications for construction and backfilling, and/or specific conditions from DEW (Groundwater) within 3 months of the expiry of the PEPR approval (for PEPRs approved for a period of 12 months), or 3 months after the expiry of a program notification (for PEPRs approved for an ongoing period), unless otherwise authorised. Provide the information requested within the 'Groundwater' section of the annual exploration compliance report.

Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
Aboriginal heritage	Aboriginal heritage sites	Disturbance to Aboriginal heritage	Performed Taa Wika database search in case of already described sites (already completed - no sites located in central databases). Drilling will be occurring on freehold land on paddocks that are cleared already with minimal risk due to no excavations required Vector Minerals staff will still check drill sites before drilling equipment arrives for undiscovered heritage sites, with the site to be cordoned off and the target relocated to a suitable location if a heritage site is observed.		No disturbance to Aboriginal artefacts or sites of significance unless prior approval under the relevant legislation is obtained.	Maintain a database and provide a statement within the 'Compliance with approved programs' section of the annual exploration compliance report demonstrating that: <ul style="list-style-type: none"> <li>Heritage sites were not impacted during the conduct of the exploration program, unless prior approval was obtained under the appropriate legislation</li> <li>Work ceased on discovery of a significant site and recommenced only after authorisation.</li> <li>Aboriginal heritage sites identified during the exploration program were appropriately recorded and reported to authorities, if not previously known.</li> </ul>
Weeds and Pathogens	All flora and fauna, especially listed species.	Loss/modification of the environment (biological, social and economic) through the introduction of weeds and pathogens.	Review of EPBC/NatureMaps for weeds of significance in this area Vehicles/Drilling Equipment to be cleaned before entering the relevant paddocks Site induction to cover potential weeds, notably weeds identified in the local region as per EPBC/NatureMaps consultation. (African Boxthorn, Buffel Grass, Asparagus asparagoides f.) Drillsites to be monitored during drilling and after rehabilitation for introduced weeds. Photographs before drilling and after rehabilitation to be taken	Low	No introduction of new species of weeds and plant pathogens, nor increase in abundance of existing weeds species.	Provide a statement within the 'Compliance with approved programs' section of the annual exploration compliance report, confirming that: <ul style="list-style-type: none"> <li>Vehicle logs were kept during the exploration program, demonstrating that all vehicles are clean and free of plant and mud material prior to entering properties† within the tenement areas, unless otherwise agreed to with the relevant landowners.</li> <li>Photographic evidence before and during exploration operations and after rehabilitation of disturbed sites was captured, demonstrating that no new weeds and plant pathogens were introduced, nor an increase in abundance of existing weeds recorded.</li> </ul>

Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
Contamination	Soil/vegetation/fauna	Soil/vegetation contamination (e.g. hydrocarbons, rubbish, drill samples/cuttings, ablutions, other sources)	<p>Zero trace policy to be followed All rubbish to be removed offsite daily Drilling to occur on already cleared paddocks with flat topography, meaning no earthworks/topsoil disturbance outside of the drill collar will be needed Vehicle inspections to occur before entering onto paddocks when first coming to site. Inspections to confirm no leaks are occurring and free of any foreign matter and that a washdown has occurred. Spill kit to be at drilling locations with personnel trained in its use. Any spill areas/contaminated soil to be transferred into bags and disposed of off site Areas where contaminated soil was disposed of will be rehabilitated back to a suitable level used for agricultural purposes. Coconut matting to be used over drilling site to mitigate compaction and also prevent contamination from spills</p> <p>Accommodation for all workers to be offsite at either rental house nearby, Port Broughton or Port Pirie Only minor representative samples will be taken from mud rotary drill cuttings, reducing total surface footprint</p>	No	No contamination of soil and vegetation as a result of exploration activities.	<p>Demonstrate that all domestic or industrial waste (includes general rubbish and hydrocarbons) is disposed of in accordance with the Environment Protection Act 1993 within 3 months of the expiry of the PEPR approval (for PEPRs approved for a period of 12 months), or 3 months after the expiry of a program notification (for PEPRs approved for an ongoing period), and that all fuel and chemicals are stored in accordance with EPA requirements, by providing:</p> <ul style="list-style-type: none"> <li>• The name, location and contact details of the authorised waste disposal facility.</li> <li>• A statement within the 'Compliance with approved programs' section of the annual exploration compliance report confirming domestic and industrial waste was removed from all exploration sites and disposed of at an authorised waste disposal facility.</li> <li>• Photographic evidence within the annual exploration compliance report demonstrating that all fuel and chemical storage facilities were managed in accordance with EPA requirements. Maintain photographs of all exploration sites and provide representative photos within the annual exploration compliance report demonstrating that drill cuttings are:</li> <li>• removed from site and disposed of at a licensed facility</li> <li>• buried under a minimum of 30 cm of soil, or in accordance with EPA guideline, Radiation protection guidelines on mining in South Australia: mineral exploration, available on the EPA website, or</li> <li>• backfilled down the drillhole, within 3 months of the expiry of the PEPR approval (for PEPRs approved for a period of 12 months), or 3 months after the expiry of a program notification (for PEPRs approved for an ongoing period), unless otherwise authorised. Provide the information requested within the 'Rehabilitation' section of the annual exploration compliance report.</li> </ul>

Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
Fire	Community/landowners	Damage to infrastructure and loss of income through fire.	No drilling to occur during Total Fire Bans for the Mid North district. Fire ban information to be reviewed after the daily 5pm update. Fire ban information to be monitored continuously on Alert SA Wandearah CFS to be informed of drilling activities Drilling to stop if local conditions merit it All vehicles to have appropriate fire extinguishers Firefighting vehicle to be located near drilling activity provided by landholder Fire load reduced for 5m around drilling rig if required Communications equipment for 000 notification to be on site 24/7 Hot works (welding/grinding) to follow appropriate hot work procedures and to be done in an appropriate exclusion zone area. If possible, welding/grinding activities to be carried out at accommodation property/core shed (if Vector rents it for drilling) away from paddock.		No loss of infrastructure or income through fire as a result of exploration activities.	Provide a statement within the 'Compliance with approved programs' section of the annual exploration compliance report confirming that no uncontrolled fires* occurred. Alternatively, provide a report on the independent investigation of all uncontrolled fires* demonstrating that the licensee could not have reasonably prevented the fire through the implementation of precautionary measures.

Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
Groundwater users	Groundwater users	Interference to existing water users when extracting water from existing dams, water bores or mineral drillholes.	Water for drilling to be sourced from council mains as per agreement with Landholder. Landholder to be remunerated for costs.		No public nuisance impacts resulting from the extraction of water for exploration purposes, unless prior approval under the relevant legislation is obtained.	Provide the information requested within the 'Complaints' section of the annual exploration compliance report demonstrating that all reasonable complaints from stakeholders were resolved to the satisfaction of both parties, prior to and ongoing during the course of the exploration program without the involvement of DEM. Where permits are required for the extraction and/or usage of groundwater, provide copies of the licence or permit within the annual exploration compliance report.
Fauna	All fauna	Entrapment of fauna through open drillholes and excavations.	Liase with landholder in advance regarding livestock status in paddock at time of drilling. If livestock will be present in paddock during drilling operations, temporary fencing of appropriate nature will be placed around drilling operations and subsequent drill collar. All drilling operations to be completed without excavations required and no sumps will be dug. Cap placed over drill hole on completion. Rehabilitation completed as per ISM21 - General Specifications for construction and backfilling.		No fauna traps created as a result of exploration activities.	Maintain before, during and after photographic evidence of all drillholes and/or excavations demonstrating that: <ul style="list-style-type: none"> <li>• All drillholes were permanently or temporarily capped/plugged immediately upon completion.</li> <li>• No fauna and livestock became trapped in drillholes and/or excavations throughout the duration of the program.</li> <li>• All rehabilitation was completed within 3 months of expiry of the PEPR approval (for PEPRs approved for a period of 12 months), or 3 months after the expiry of a program notification (for PEPRs approved for an ongoing period), unless otherwise authorised. Representative photos are to be included within the annual exploration compliance report. Provide the information requested within the 'Rehabilitation' section of the annual exploration compliance report.</li> </ul>

Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
Native Vegetation	Flora and fauna and their habitats; includes Common wealth and state scheduled species.	Loss/modification of native vegetation and associated habitats through the clearance of vegetation.	No exploration activity to occur in native vegetation areas No native vegetation cleared	Low	No permanent loss/modification of native flora and fauna populations and their habitats through: • clearance • fire • other unless prior approval under the relevant legislation is obtained.	Maintain before, during and after photographic evidence of all exploration sites (e.g. drillsites, new track exit/entry points off existing tracks, costeans, campsites) demonstrating that: • The area and method of disturbance is consistent with that described in the PEPR. • No uncontrolled fires* occurred as a result of exploration activities. Representative photos to be included within the annual exploration compliance report.
Other	-	-	-	Low	-	-
Soil	Soil	Disturbance to the soil profile and topography, and accelerated soil erosion caused by exploration activities (e.g. construction of sumps, new tracks and drill pads; ground compaction at laydown areas and camps).	All vehicle transfers to occur along the existing perimeter of cleared paddocks, or on a predefined path as agreed upon with landholder and paddock lessee Drill sites to occur away from the narrow NW-SE longitudinal dunes that occur within the Target 1 Area Drill sites on flat cleared paddock areas with no earthworks required, no new tracks required and above ground sumps & tanks used for drilling operations No heavy vehicle movements during heavy rain to avoid damage to the wet soil Rehabilitation of soil surrounding the drillsite to be done to landholders requirements Rehabilitation of any disturbance to paddock soil via vehicle access tracks to be rehabilitated to landholder requirements	Low	Where soil disturbance occurs as a result of exploration activities, ensure that: • topsoil quality and quantity is maintained • the soil profile and topography is reinstated to original conditions • there is no accelerated soil erosion.	Maintain before, during and after photographic evidence of all excavations, drillsites, camps, laydown areas and new tracks demonstrating that: • The soil profile and topography is reinstated to original conditions and is consistent with natural surroundings within 3 months of the expiry of the PEPR approval (for PEPRs approved for a period of 12 months), or 3 months after the expiry of a program notification (for PEPRs approved for an ongoing period), unless otherwise authorised. • Where required, sufficient topsoil is removed (depending on soil profile), stored separately from subsoil and reinstated (in the correct order) within 3 months of the expiry of the PEPR approval (for PEPRs approved for a period of 12 months), or 3 months after the expiry of a program notification (for PEPRs approved for an ongoing period), unless otherwise authorised. • There are no signs of accelerated soil erosion during and post rehabilitation of disturbed sites. Representative photos to be included within the annual exploration compliance report. Provide the information requested within the 'Rehabilitation' section of the annual exploration compliance report.

Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
Third party access	Soil/vegetation/fauna	Degradation of rehabilitated access tracks caused by third party access (includes previously closed and rehabilitated access tracks).	Access into drill target sites beyond council roads is through private paddocks that are gated off. Not accessible to the public.	Low	Rehabilitated access tracks remain permanently closed, unless prior approval under the relevant legislation is obtained.	Maintain before and after photographic evidence demonstrating that all tracks are closed and rehabilitated within 3 months of the expiry of the PEPR approval (for PEPRs approved for a period of 12 months), or 3 months after the expiry of a program notification (for PEPRs approved for an ongoing period), unless otherwise authorised. Representative photos are to be included within the annual exploration compliance report. Provide the information requested within the 'Rehabilitation' section of the annual exploration compliance report.
General Public	General Public	Injury or death to members of the public as a result of exploration activities.	Exploration activity will occur within private paddocks that are gated off to the public. Transfer to drill sites will occur via sealed and unsealed public roads Company employees to be inducted on safe driving procedures when travelling to and from drillsite (e.g. fatigue management) Appropriate signage around drillsite preventing access from uninducted/unaware personnel	High	No accidents involving the public that could have been reasonably prevented by the licensee.	Provide a statement within the 'Compliance with approved programs' section of the annual exploration compliance report confirming no accidents occurred involving the public during and after the exploration program. If an accident involving the public did occur, provide a copy of the independent investigation report within the annual exploration compliance report demonstrating that the licensee could not have reasonably prevented the accident through the implementation of precautionary measures.

Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
Groundwater	Soil/vegetation/fauna	Discharge of groundwater into the surrounding environment.	Drilling targets are not located in close proximity to natural water ways. Above ground tanks to be used during drilling operations. Intersected groundwater to be pumped into tanks. Plastic sheeting to be laid out above coconut matting around the drill rig and above ground tanks. Tank level to be monitored continuously to avoid overflow. Excess water to be disposed of at appropriate waste facility via sucker truck		No discharge of groundwater outside of the exploration site (e.g. drillsite) into the surrounding environment and no discharge of water into a watercourse, unless prior approval under the relevant legislation is obtained.	Maintain photographic evidence of all drillsites demonstrating that groundwater was not discharged into the surrounding environment, unless water affecting activity permits were obtained allowing the discharge of groundwater into watercourses and/or lakes. Representative photos and water affecting activity permits (where applicable) to be included within the annual exploration compliance report.

Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
Stakeholders	Stakeholders	Interference to: • existing or permissible land use (includes loss of income, noise, dust, light and other emissions). • buildings, structures, existing tracks or other infrastructure. • aesthetic values of an area. Noncompliance with legislative requirements.	<p>Conduct all drilling activities in accordance with PEPR guidelines</p> <p>Any generic EPEPR exploration activities planned on local roads to be cleared through Port Pirie Council</p> <p>Continual liaison with prime stakeholder (Landholder 1) regarding exploration activities and status of drilling activities.</p> <p>All exploration activities to comply with the signed access agreement.</p> <p>All drilling and exploration activities preferentially occur within the post-harvest season. If exploration activities occur within/during seeding, arrange compensation in relation to area of disturbance before finalising the drilling timeline.</p> <p>Infrastructure searches (Dial Before You Dig) completed before drilling activities</p> <p>All drilling equipment/vehicle movement restricted to predefined paths within paddock</p> <p>All drilling activities to comply with local CFS fire ban declarations</p> <p>All drilling activities will occur away from residential areas.</p> <p>Closest house is 1.1km away from T1 and 1.4km away from T2.</p> <p>Water sourced for drilling activities will be taken from the mains connection</p>	Low	Stakeholders are fully informed and satisfied with the proposed methods used to conduct exploration activities on their land, and all prescribed forms are served and agreements obtained in accordance with the Mining Act.	Provide the information requested within the 'Complaints' section of the annual exploration compliance report demonstrating that all reasonable complaints from stakeholders are resolved to the satisfaction of both parties prior to and ongoing during the course of exploration program, without the involvement of DEM. Provide the information requested within the 'Landowner details and liaison' section of the annual exploration compliance report demonstrating that prescribed forms were served and agreements obtained in accordance with the Mining Act prior to the commencement of exploration activities.

Environmental Aspect	Receptor	Potential Impact	Control Strategies	Risk	Outcomes	Outcome Measurement Criteria
			point as per prior agreement Rehabilitation of drilling area to be done in line with ISM21 and also to the satisfaction of the landholder			

## Not applicable environmental aspects and potential impacts

Environmental Aspect	Potential Impact
Surface Water	Alteration to surface water – interference to surface drainage.
Hazardous materials - Uranium	Contamination of the environment when exploring for known uranium and thorium deposits. Public and employee/contractor exposure to low level radiation.
Heritage and scientific sites	Disturbance to European heritage sites and sites of scientific and environmental significance (e.g. geological monuments, fossil reserves).
Other (Hazardous Materials)	

## Supporting Information

### Photos

#### Upload Photos

File Name	File Size (Mb)	Created On	Download	Expand/Collapse
LookingOntoTargetOneFromMalleeRd.jpg	3.72 Mb	03-02-2026 15:48:32	<a href="#">Download (MERS/EP-04050/Supporting information/Photos/LookingOntoTargetOneFromMalleeRd_2026-02-03T05-18-33.616Z.jpg)</a>	
Photo2-SaltbushLandscape.jpg	3.4 Mb	03-02-2026 16:18:20	<a href="#">Download (MERS/EP-04050/Supporting information/Photos/Photo2-SaltbushLandscape_2026-02-03T05-48-21.205Z.jpg)</a>	

Site identification	Date taken	Photo number & PEPR section reference	Easting (GDA94)	Northing (DGA94)	Zone	Details and comments	Document ID
Target One	16/09/2025	LookingOnto TargetOneFromMalleeRd.jpg	776573.0	6298476.3	53	Looking approximately southwest onto the Target One area from Mallee Road. This is the typical topography throughout the area - cleared paddocks. This was taken during spring prior to harvest.	LookingOnto TargetOneFromMalleeRd.jpg
Regional Saltbush Landscape	10/12/2025		776427.9	6297910.7	53	Typical saltbush vegetation on uncleared sections of the land. This interface of saltbush vegetation - small paddock fence - cleared paddock is similar to where target two will be drilled (on a cleared paddock up against a fence)	Photo2-SaltbushLandscape

## Supporting Maps

### Upload Maps

File Name	File Size (Mb)	Created On	Download	<a href="#">Expand/Collapse</a>
TopographicMap_VectorMinerals_Wandearah_310126.png	4.37 Mb	19-02-2026 16:37:21	<a href="#">Download (MERS/EP-04050/Supporting information/Maps/TopographicMap_VectorMinerals_Wandearah_310126_2026-02-19T06-07-23.244Z.png)</a>	

Figure Description	Document ID
Topographic map of Wandearah tenement EL7053.	TopographicMap_VectorMinerals_Wandearah_310126.png

## Additional Information

List any other supporting information and/or documents submitted with the application, including land access approvals/permits required to conduct the proposed exploration program.

## Payment

### Fee Payable

**Total Amount Payable:** \$1,736.00

**Invoice ID:** [AP000281](#)


**Payment Status:** Paid

775000

777500

# Wandearah

## Property Parcels - Exempt Land Affected

-  Area Of Operations
-  Property Lots

Date Prepared: 31/01/26  
 Author: M. Rodda.



0 500 1,000 m



CRS: GDA94 Zone 53

6302500

6300000

6297500

6295000

6302500

6300000

6297500

6295000

775000

777500



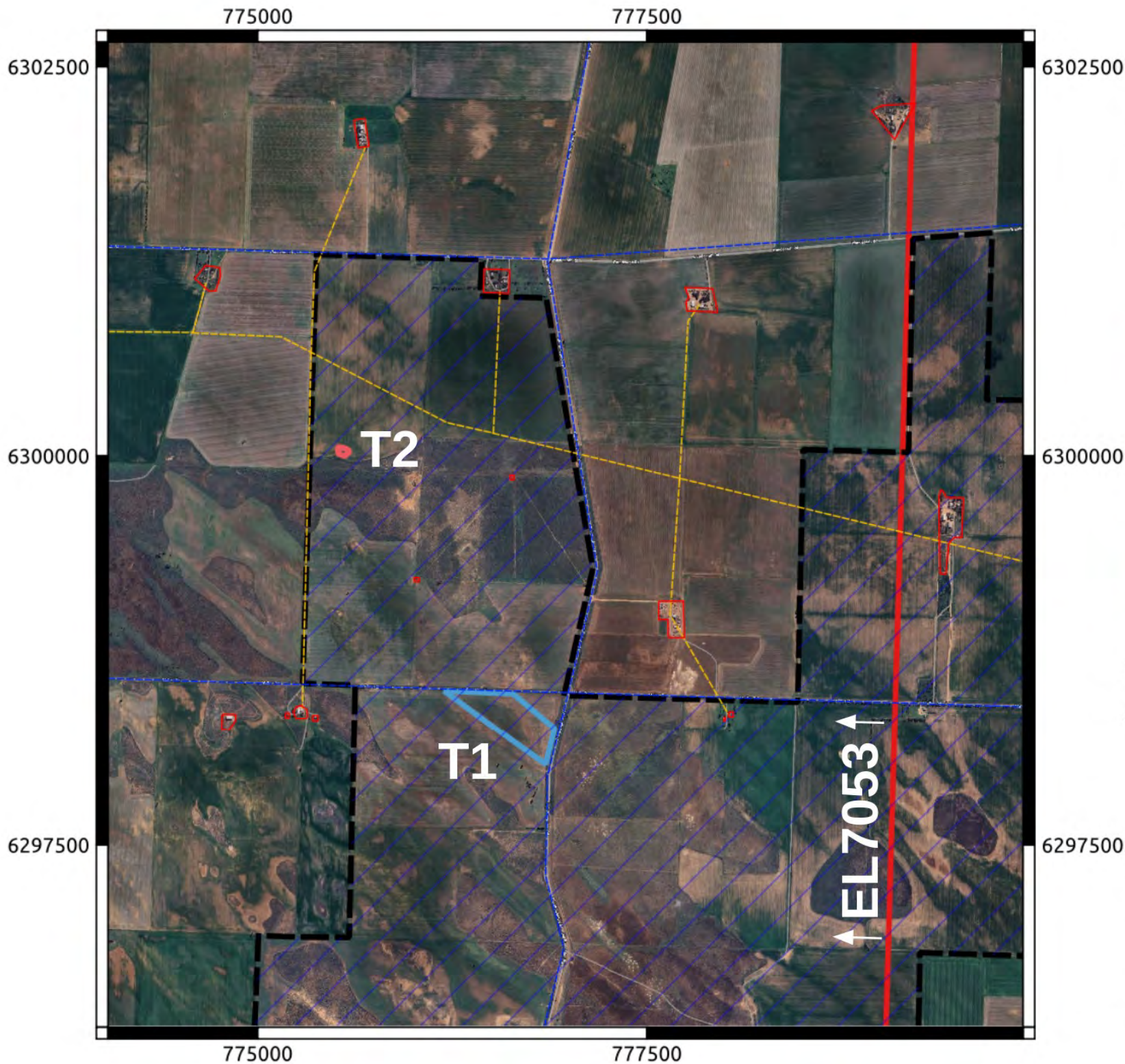
T2

D52703AL2

T1

H241200SE74E

EL 7053 ↑



# Wandearah Drill Targets & Nearby Infrastructure

- Residential/Agri Infrastructure
- SA Water Mains
- Powerlines
- Property Boundary
- AOI\_Targets
- T1
- T2

Date Prepared: 31/01/26  
Author: M. Rodda.



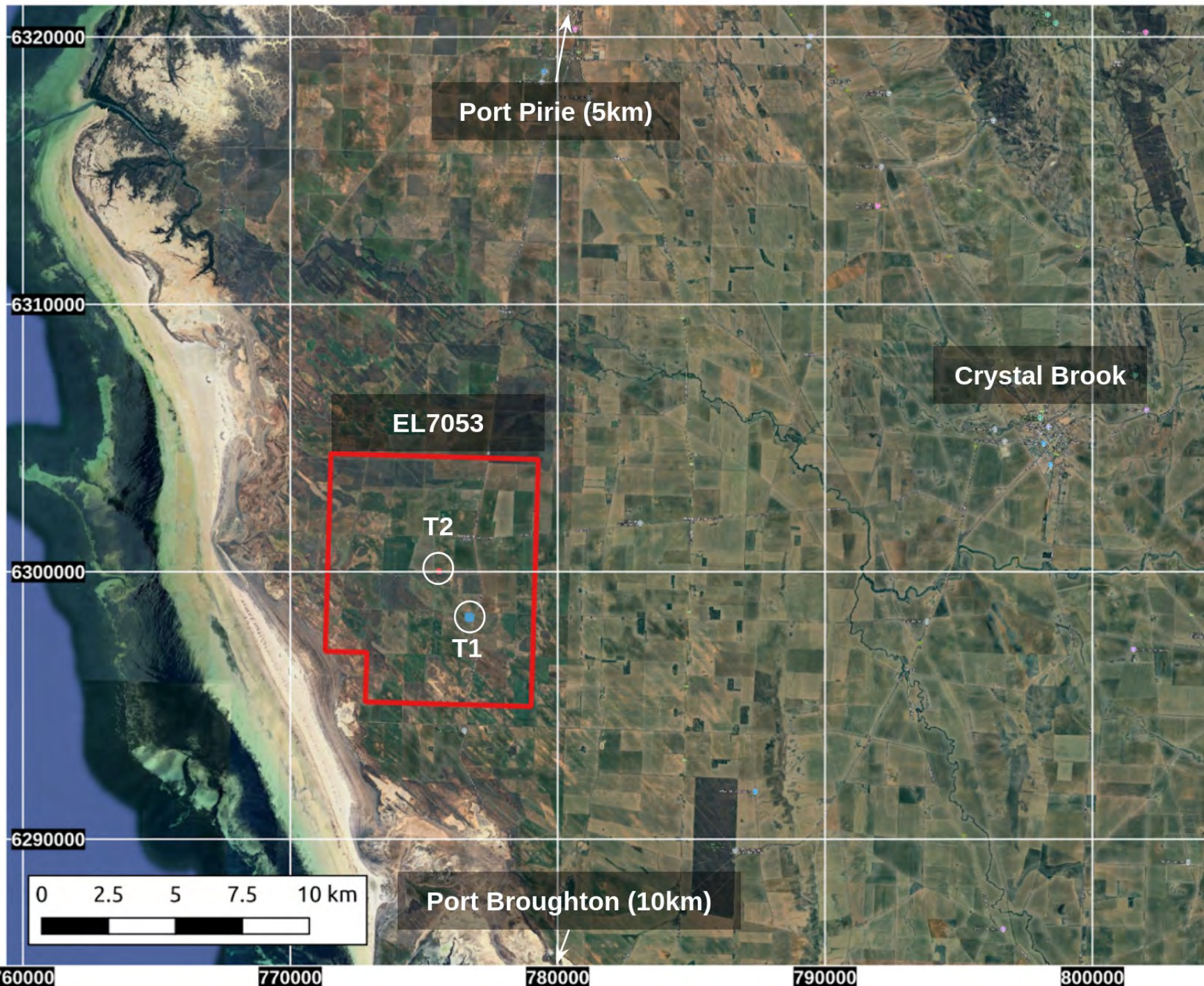
0 500 1,000 m



CRS: GDA94 Zone 53

↑ EL 7053 ↑

# Wandearah Regional Setting

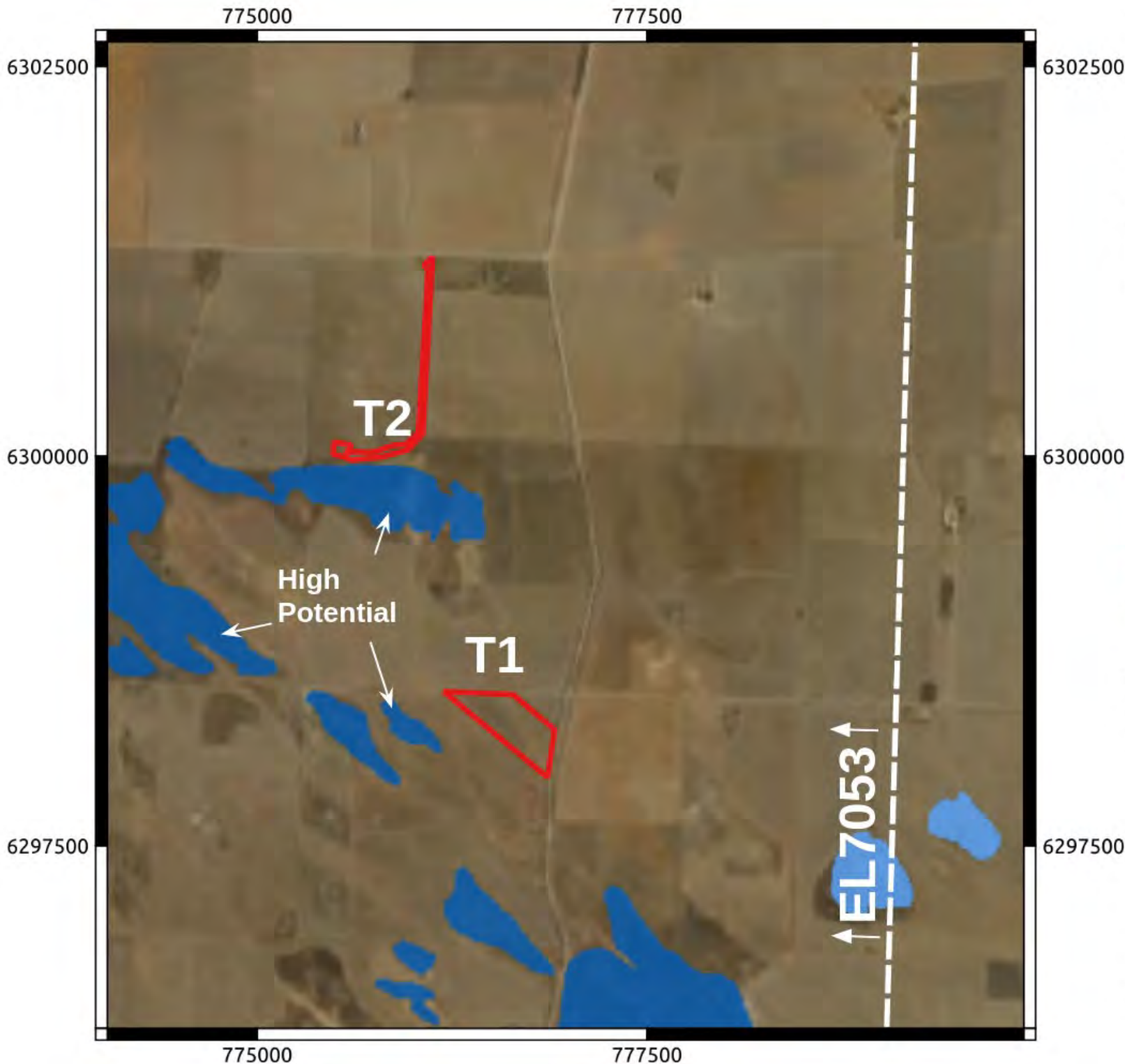


Author: M. Rodda.  
Date Prepared: 31/01/26  
CRS: GDA94 Zone 53



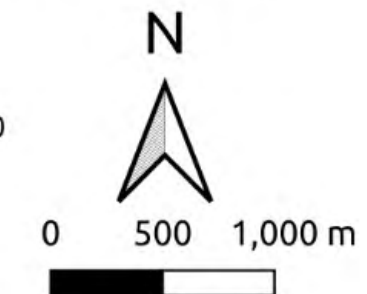
# Wandearah

Aquatic Groundwater  
Dependent Ecosystem  
Locations



**Date Prepared: 31/01/26**

**Author: M. Rodda.**



CRS: GDA94 Zone 53

775000

777500

6302500

6302500

# Wandearah

## Terrestrial Groundwater Dependent Ecosystem Locations

6300000

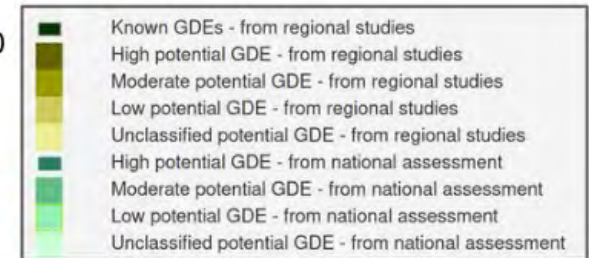
6300000

**T2**

Moderate  
Potential

**T1**

↑ EL 7053



**Date Prepared: 31/01/26**

**Author: M. Rodda.**

6297500

6297500

N



0 500 1,000 m



CRS: GDA94 Zone 53

775000

777500

# Wandearah

## Nearby Waterwells



AOI\_Targets

T1

T2

WATER\_Drillholes\_GDA94

WandearahTenement

Date Prepared: 31/01/26

Author: M. Rodda.

CRS: GDA94 Zone 53

N

0 1 2 km



# Wandearah

## Weeds of Significance

**Weeds**

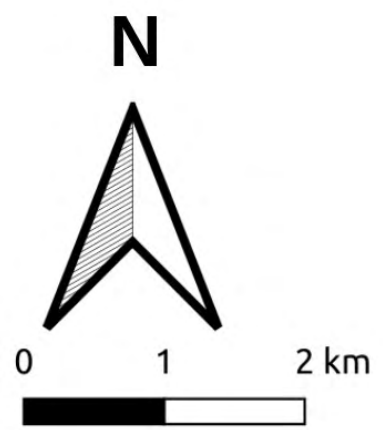
- African Boxthorn

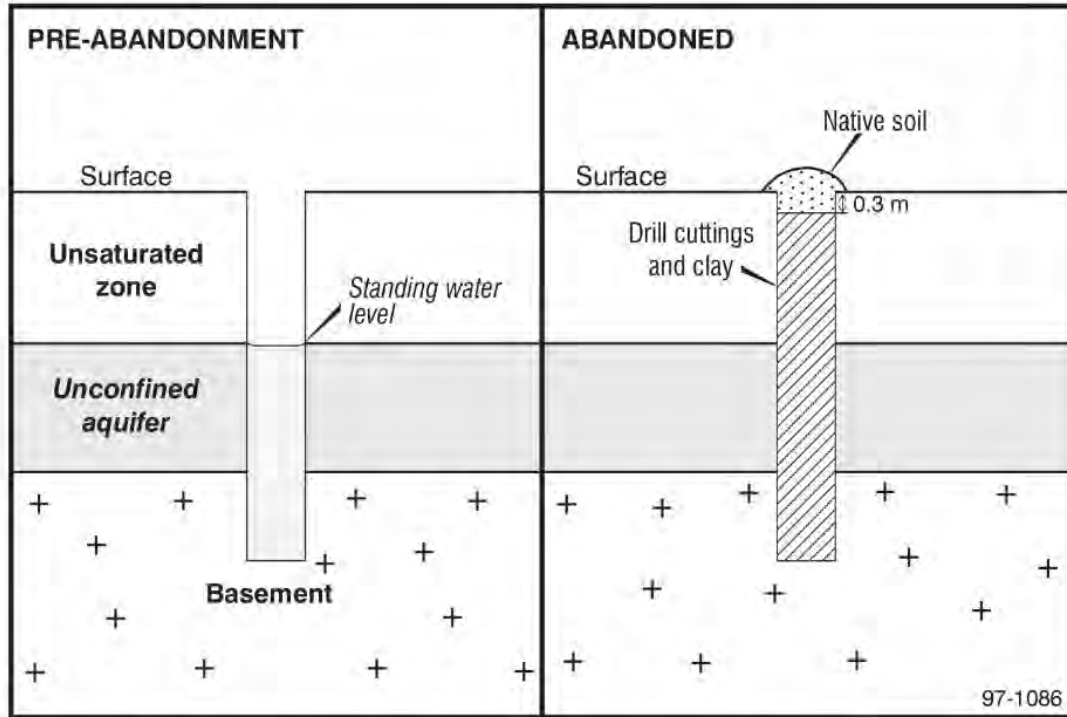
**AOI\_Targets**

- T1
- T2

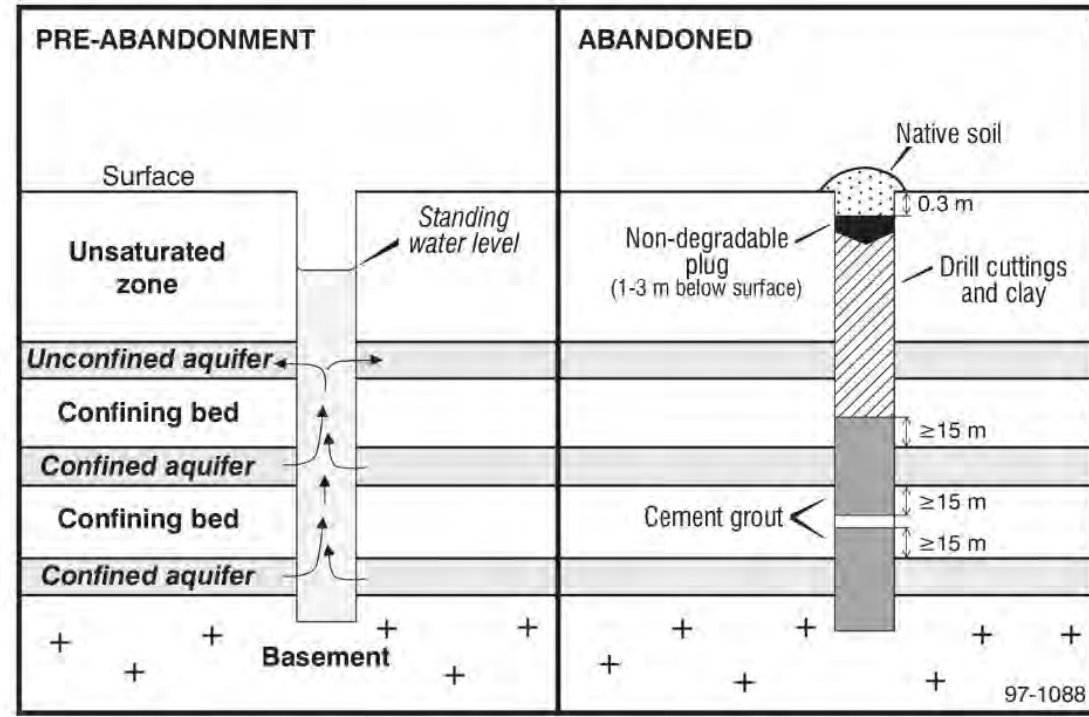
□ WandearahTenement

**Date Prepared: 31/01/26**  
**Author: M. Rodda.**  
**CRS: GDA94 Zone 53**





**Figure 1:** ISM21 decommissioning schematic to be followed if only a unconfined aquifer is intersected in the cover



**Figure 2:** ISM21 decommissioning schematic to be followed if Kanaka / Gibbon bed confined aquifers are intersected below unconfined Quaternary aquifers







776000

777000

778000



# Wandearah Target Access

-  DrillAccessPath
- AOI\_Targets
  -  T1
  -  T2
-  PaddockFence
-  CouncilRoads
-  Powerlines

6301000

6301000

6300000

6300000

6299000

6299000

6298000

6298000

776000

777000

778000

Date Prepared: 31/01/26

Author: M. Rodda.



0 500 1,000 m

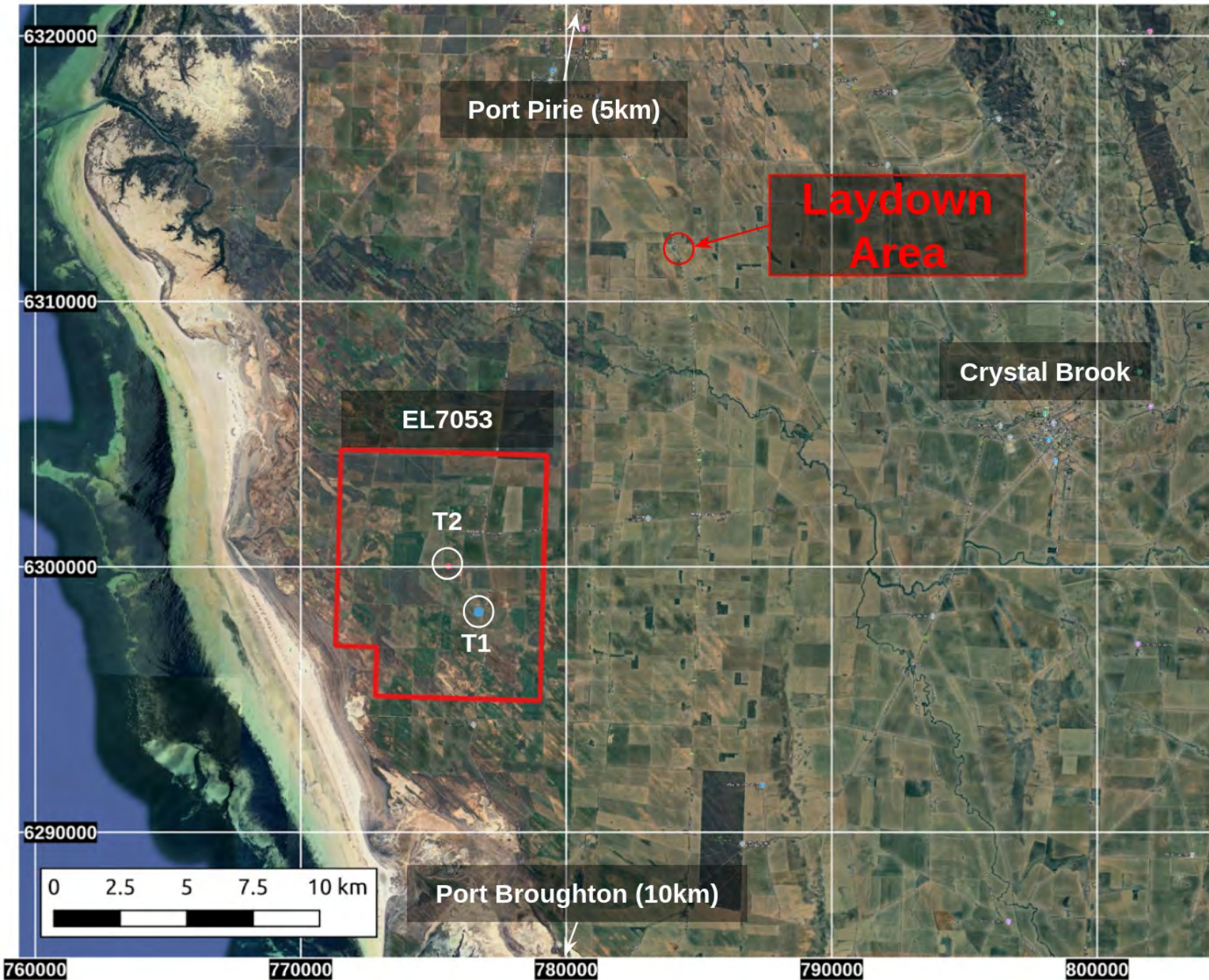


CRS: GDA94 Zone 53

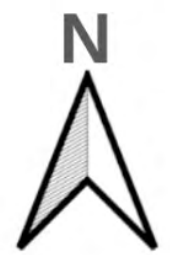
T2 Route

T1 Route

# Wandearah Laydown Area



Author: M. Rodda.  
Date Prepared: 02/03/26  
CRS: GDA94 Zone 53







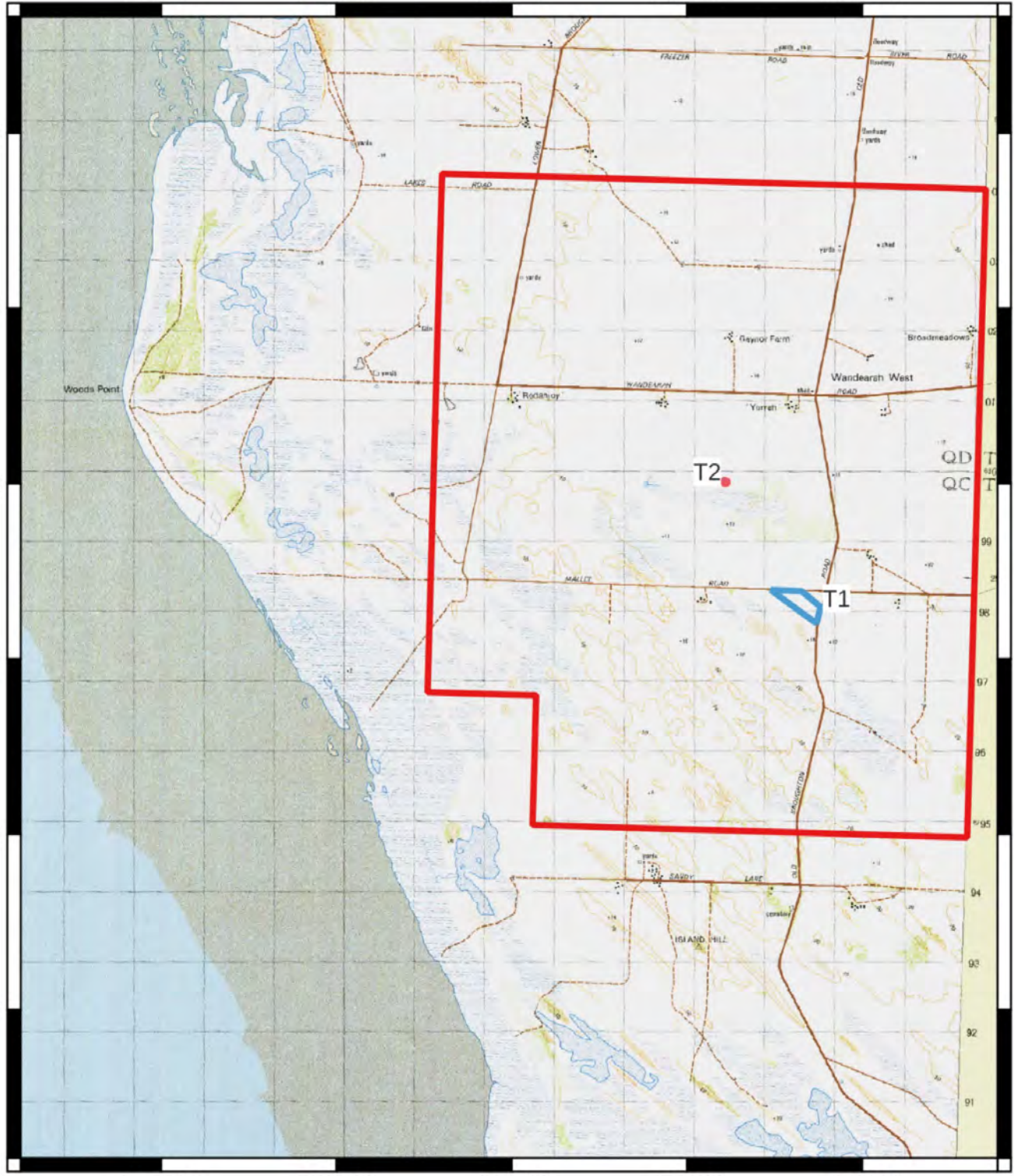
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


# Wandearah Topographic Map

6305000  
6302500  
6300000  
6297500  
6295000  
6292500

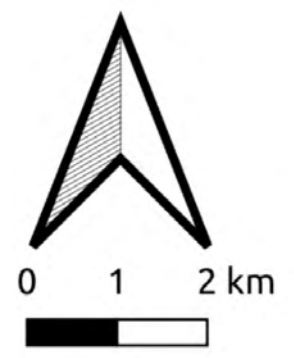
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6300000  
6297500  
6295000  
6292500



AOI\_Targets

-  T1
-  T2
-  WandearahTenement

**Author: M. Rodda.**  
**Date Prepared: 31/01/26**  
**CRS: GDA94 Zone 53**



767500 770000 772500 775000 777500