



Government  
of South Australia

Department for  
Energy and Mining

11 February 2025

Mr David Cornish  
Exploration Manager  
Trinex Minerals  
128 Churchill Rd  
SUBIACO WA 6008

dcornish@trinexminerals.com.au

Dear Mr Cornish,

### **Approval Notification - Exploration Program for Environment Protection and Rehabilitation (EPEPR2024-047) EL 6892**

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The program for EL 6892, final version submitted on 23 January 2025 to conduct drilling of 30 RC holes approximately 10 km south east of Penneshaw, has been approved in accordance with Section 70B(5) of the *Mining Act, 1971 (the Act)*.

In accordance with section 62(1) of the *Mining Act 1971*, a rehabilitation bond/bank guarantee to the value of **\$10,000** is required to be lodged with the Mining Registrar. Appropriate documentation will be forwarded to you shortly. The bond must be lodged within 28 days of receiving these documents.

You are reminded that:

1. You must at all times implement and comply with the approved EPEPR.
2. The approved EPEPR will be made publicly available on the Mining Register.
3. Exploration operations on “native title land” (as defined in the *Native Title (South Australia) Act, 1994*) must be conducted in accordance with Part 9B of the Act.
4. In accordance with Section 70C of the Act, the licensee must review the EPEPR on request of the Minister’s Delegate within a time specified in the request and submit the revised EPEPR for approval.
5. As the operator for the approved EPEPR you must take all reasonable and practical measures to avoid undue damage to the environment and meet all the approved outcomes (when measured against the approved criteria) listed within the EPEPR.
6. In accordance with regulation 78 of the *Mining Regulations 2020* and Terms of Reference 012 (TOR 012), the licensee must submit an Exploration Compliance Report to the Mineral Exploration Branch each year, within 60 days after the anniversary of the date the licence was granted, and 60 days after the expiry or surrender of the EL, or in accordance with joint reporting requirements agreed to with the Minister.
7. In accordance with regulation 16(4) of the *Mining Regulations 2020*, drillhole and geological samples must be kept in accordance with guidelines issued by the Department for the term of the relevant tenement and for 7 years after the expiry, surrender, cancellation or forfeiture of the tenement to which the sample relates. Furthermore, samples must be retained by the tenement holder, or provided to the Director, in accordance with those guidelines (unless the Minister has authorised, on application by

#### MINERALS REGULATION

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the tenement holder in a manner and form set out in the guidelines, the destruction or disposal of the samples).

8. The EPEPR is approved for a period of twelve months from the date of this letter.

This approval does not constitute endorsement of the systems that you have in place to manage your exploration operations in compliance with the Act and licence conditions. In granting the approval, the EPEPR and your capacity to undertake the proposed activities have been considered. However, responsibility for compliance with the Act and the licence conditions, remains at all times with the licensee.

This approval relates only to the requirements of the Act. Other legislation relevant to this application includes the *South Australian Work Health and Safety Act, 2012* and Regulations. For example, Chapter 10 of the *Work Health and Safety Regulations, 2012* (SA) introduced new requirements for mine operators in South Australia. The new requirements include a notification for mining operations and the establishment of a Safety Management System. For further information on your responsibilities, including a guide to Chapter 10 and the Mine Operator Notification Form, contact SafeWork SA on 08 8303 0255 or via its website at [www.safework.sa.gov.au](http://www.safework.sa.gov.au).

The proposed program may be subject to the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). Mineral exploration industry-specific information is contained in an appendix in the EPBC Matters of National Environmental Significance – Significant impact guidelines 1.1. This document is available on the Australian Government's Department for Climate Change, Energy, the Environment and Water website at <http://www.environment.gov.au/resource/significant-impact-guidelines-1-1-matters-national-environmental-significance>. For further information, contact the Department for Climate Change, Energy, the Environment and Water, or visit its website at [www.environment.gov.au/](http://www.environment.gov.au/).

Proposed changes to exploration operations stated in the approved EPEPR may require a *PEPR review* to be submitted for assessment. Where a *PEPR 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](#).

If you require any further information, please contact Shelley Rasmussen 0409 797 670 or Simon Constable on 8429 2516 or email [DEM.exploration@sa.gov.au](mailto:DEM.exploration@sa.gov.au).

Yours sincerely



Simon Constable  
**GENERAL MANAGER MINERAL EXPLORATION  
REGULATION & COMPLIANCE**

In accordance with delegated  
Ministerial powers and functions

The Department's Regulatory Guidelines, Ministerial Determinations and Information Sheets are available at: [http://energymining.sa.gov.au/minerals/knowledge\\_centre](http://energymining.sa.gov.au/minerals/knowledge_centre)

# APPLICATION

Mining Act 1971 and Mining Regulations 2020



Government of South Australia  
Department for Energy and Mining

## EXPLORATION PROGRAM FOR ENVIRONMENT PROTECTION AND REHABILITATION (PEPR)

USE THIS TEMPLATE TO: Apply to conduct mineral exploration operations not covered by the Generic PEPR (Adopted Program) for a 12 month period of time on one or more exploration licences (ELs), retention leases (RLs) or mineral claims (MCs) in South Australia.

Refer to the Exploration PEPR Terms of Reference and Minerals Regulatory Guidelines MG22 when completing this application. Further information on exploration requirements in South Australia is available on the Department for Energy and Mining (DEM) Minerals website [www.energymining.sa.gov.au](http://www.energymining.sa.gov.au).

### SECTION A – GENERAL DETAILS

Operational approval period	<b>12-month approval period, with an additional 3 months to complete all rehabilitation</b>		
Tenement details	Exploration Lease 6892		
Tenement holder(s) (for each tenement)	South Australia Lithium Pty Ltd		
Operating company	Todd River Metals Pty Ltd		
Agency agreement (if applicable)	A farm-in agreement is in place between Todd River Metals Pty Ltd and South Australia Lithium Pty Ltd. Operator agreement for Todd River Metals Pty Ltd is attached.		
PEPR prepared by	David Cornish – Trinex Minerals Limited – Exploration Manager		
Project supervisor/contact person(s)	David Cornish – Trinex Minerals Limited – Exploration Manager 15 years experience in exploration and mining. BSc in Geology Phone: 08 6166 0255		
Project/prospect name	Dudley		
Location details	10 km SE of Penneshaw on Kangaroo Island, access via Ian Road		
Project description, commodity type and mineralisation model	<p>The project comprises one exploration licence (EL 6892), which is on the eastern end of Kangaroo Island, within the Dudley Peninsula. At the project, numerous north-east striking pegmatites have been mapped, with some mined historically for clay and gem-quality tourmalines (mostly elbaite), primarily at the 'Dudley' pegmatite.</p> <p>The commodity being explored for is lithium, hosted in lithium-caesium-tantalum (LCT) type pegmatites. LCT pegmatites are associated with fractionated granites, like the Cape Willoughby Granite 10 km to the south-east of the project. Highly fractionated pegmatites bearing spodumene and/or petalite are the target of exploration, as these lithium minerals are the most economical to process. The lithium-bearing tourmaline elbaite, which was the target for historical gem mining, is an indicator the pegmatites in the project are highly fractionated and potentially mineralised with the lithium silicates spodumene and/or petalite.</p> <p>Thirty (30) reverse circulation (RC) holes will be targeted at pegmatites mapped at surface and inferred from recent MMI soil sampling. Drilling will target the pegmatites below the weathering profile, estimated to extend at least 20-30m below surface. The drill rig is expected to have a capacity to drill to 200-300m downhole depth, but holes will be ended earlier if they pass through the target pegmatite into host metasediments. No other advanced activities are planned.</p>		
Proposed project schedule	Start date	February 2025	End date May 2025

### DECLARATION

I, the tenement holder, declare under regulation 84 of the Mining Regulations 2020, that I have taken reasonable steps to review the information in this PEPR/ revised PEPR to ensure its accuracy.

Name	ROBERT B CAMERON	Signature (digital allowed)	
Position	DIRECTOR	Date	22/1/25

Copy and paste the above table if there is more than 1 tenement holder.

Note: An authorised representative from each tenement holder must sign the declaration (eg in accordance with the Corporations Act 2001).

**SECTION B – PROGRAM PREPARATION AND ACCESS TO LAND**

**Work undertaken in preparing the proposal**

Summarise the research and fieldwork undertaken in preparing the proposal including:

- desktop reviews of existing information
- field visits for reconnaissance
- contractor consultation (i.e. equipment scale, type)
- other information used when planning the proposed program.

During 2023 and 2024, several meetings were held with the property owners and an agreement was reached followed by several site visits to review previous work that was undertaken by previous tenement holders Lithium Australia. A trial MMI (Mobile Metal Ion) was undertaken over the “Laneway” dyke where known lithium mineralisation was observed (spodumene pseudomorphs) and MMI was shown to be an efficient sampling method to utilise over the project area. During September to October 2024 total of 1100 samples were taken over the Clark property and these results have now been received and are currently being analysed to define drill targets. The topography, soils, fauna and flora were noted during the numerous field visits. Numerous discussions were held with the landowner and farm manager during the work about the mapping and soils and potential future drilling. Drilling is planned to commence early in the new year prior to the onset of winter rains.

A desktop review has been completed of historical exploration reports and GSSA geological reports & maps, sourced from SARIG.

Public maps and GIS data on SARIG, Nature Maps, Enviro Data, Location SA, WaterConnect, the GDE Atlas have been reviewed in preparation of this PEPR.

The following public environmental reports have been reviewed in preparation of this PEPR.

- DWLBC Report - Hydrogeochemistry of surface waters and groundwaters, Kangaroo Island – 2007/18
- Technical Report – Non-Prescribed Groundwater Resources Assessment – Kangaroo Island Natural Resources Management Region: Phase 1 – Literature and Data Review – 2012/02
- Kangaroo Island Narrow-leaved Mallee (*Eucalyptus cneorifolia*) Woodland: a nationally-protected ecological community – 2014

Drill contractors have been consulted on expected equipment to be used. Drilling to be completed is reverse circulation and equipment is expected to be typical for this type of work.

**Consultation (r. 64)**

Using the table below, provide a summary of the individual or group of similarly affected persons and summarise the results of consultation that has been undertaken on the proposed operation. Types of interested or affected parties include residents, council, government agencies etc (exclude native title groups and defence owned or controlled lands – refer to relevant sections below).

Tenement	Stakeholder	Land tenure	Land use	Date and type of NOE served	Type of exempt land	Date waiver obtained	Date consultation/access agreement and/or permits signed/authorised	Stakeholder concerns raised and how addressed
EL6892	Landowner - Karu Karu Holdings (director Colin Clark)	Freehold CT 6064/553 CT 5838/691	Sheep and cattle pasture	NOE form 21A submitted on 30/08/2023	Dams, sheds, hay crop	19/11/2024 Form 23c registered 21/11/2025	Access agreement for low impact work signed on 13/3/2024 Access agreement for advanced activities signed 19/11/2024	<ul style="list-style-type: none"> <li>• <i>Drilling during extreme weather – drill activities to be suspended on Total Fire Ban days</i></li> <li>• <i>Excessive off-track driving – vehicles to utilise existing tracks as much as possible</i></li> </ul>

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

Not Applicable

## Exploration PEPR application – 12-month period

Provide any additional relevant information.

Access agreement signed by landowner waives exempt land around sheds & dams from 150m to 25m, and on hay crop for work completed after harvest. No drilling will be completed within 25m of dams and sheds, as per agreement. As part of the agreement, the landowner is compensated for advanced activities (drilling) both within waived exempt land and outside it, with conditions of work such as thorough weed control and not working on Total Fire Ban days. All possible drill sites, whether in exempt land or not, will be visited and possible impacts to the property discussed with the landowner before activities begin.

For use of farm shed as laydown area, expected that Form 23B to be signed by landowner before any work commences with company to submit corresponding Form 23C to Registrar.

## SECTION C – DESCRIPTION OF THE ENVIRONMENT

Include a description of the features of the environment that are expected to be affected by the proposed operations. Each of the elements of the existing environment listed below must be described only to the extent that they may need to be considered in assessing the impacts that the proposed exploration operations are reasonably expected to have on the environment. If the element is not likely to be impacted by the operation, a statement to that effect must be included.

Where the terms and conditions of an RL include environmental outcomes, include any new baseline environmental data relevant to the control strategies or measurement criteria, and where changes to the environment are identified, provide an updated description of the environment to describe the changes.

### Proximity to infrastructure and housing

Provide the following information:

- Settlements – indicate the name and distance of the nearest town, and residences within, or near the proposed exploration operations.
- Roads and tracks – indicate existing fence lines, roads and tracks, including those which are to be used in the exploration program.
- Other human infrastructure such as schools, hospitals, commercial or industrial sites, roads, sheds, bores, dams, ruins, pumps, scenic lookouts.
- Railway lines, transmission lines, gas and water pipelines, communication lines – e.g. fibre optic cables etc., if these may be impacted by the exploration operations.

Provide this information on a locality plan/map.

The closest town to the project area is Penneshaw, approximately 10 km to the north-west. The population of Penneshaw was 269 in the 2021 census.

The project is accessed via Cape Willoughby Road and Ian Road. The drill area is accessed via existing farm tracks that runs through the middle of the property from Ian Road and connects through to Shorty Road.

The closest homesteads to the project area are:

- 346 Ian Road around 1 km to the west of the planned drill area
- 186 Shorty Road around 2.5 km to the south-east of the planned drill area
- 97 Pauls Road around 2 km to the north of the planned drill area

There is a shearing shed and 2 other sheds in the central-north part of the property, and another shed in the central part of the property. There are numerous dams for stock water across the property. An overhead power transmission line (19 kV) runs through the project area in a south-east direction from Ian Road. There is a radio transmission tower in the north-west corner of the property. No underground infrastructure is noted in Dial Before You Dig map service.

### Land use and tenure

Using the table below, select the land tenure and land use that the proposed exploration activities will occur in. Include additional information where prompted.

## Exploration PEPR application – 12-month period

Land tenure/type	Applicable	Land use	Applicable
Freehold	<input checked="" type="checkbox"/>	Grazing	<input checked="" type="checkbox"/>
Pastoral lease	<input type="checkbox"/>	Cultivated land	<input checked="" type="checkbox"/>
Perpetual lease	<input type="checkbox"/>	Residential	<input type="checkbox"/>
Crown land	<input type="checkbox"/>	Township	<input type="checkbox"/>
Mining reserve	<input type="checkbox"/>	Industrial	<input type="checkbox"/>
Aboriginal freehold/leasehold land (e.g. Anangu Pitjantjatjara Yankunytjatjara and Maralinga Tjarutja lands)	<input type="checkbox"/>	Tourism	<input type="checkbox"/>
Forestry reserve	<input type="checkbox"/>	Conservation	<input type="checkbox"/>
Marine parks	<input type="checkbox"/>	Defence activity	<input type="checkbox"/>
National parks, conservation parks, conservation reserves, regional reserves*	<input type="checkbox"/>	Road reserve	<input type="checkbox"/>
Adelaide Dolphin Sanctuary	<input type="checkbox"/>	Sites of scientific significance (geological monuments, fossil reserves etc.)	<input type="checkbox"/>
Murray Darling Basin	<input type="checkbox"/>	Orchard/vineyard	<input type="checkbox"/>
		*Native vegetation heritage agreements	<input type="checkbox"/>
Other*	<input type="checkbox"/>		
		*European heritage sites	<input type="checkbox"/>
		*Other (e.g. historic mining)	

\* Indicates more information required in field immediately below.

Describe any council policies (or out of council) or development plans that may impact the program area.

The project is within the 'Adelaide Hills, Fleurieu and Kangaroo Island Regional Development Australia' (RA) region. No council policies or development plans are known to impact the project area.

Provide a description of any known plans for future land use changes by other parties.

No other plans are known for future land use changes by other parties within the project area.

Provide any additional relevant information.

Not applicable

### Woomera Prohibited Area (WPA)

Will activities be conducted within the WPA	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Do you have a resource exploration permit in place?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
In which zone will activities be conducted?					
Does the Exploration Permit allow the operator to conduct exploration operations in the WPA?				Yes <input type="checkbox"/>	No <input type="checkbox"/>
What is the expiry date of the resource exploration permit?					
Identify closure periods that may impact on the exploration program.					
Not applicable					

### Other land owned or controlled by the Commonwealth Department of Defence

Lands in South Australia that are owned or controlled by the Commonwealth Department of Defence, which they manage either as a training or test area, include the Port Wakefield Proof and Experimental Establishment, Murray Bridge Training Area, and Cultana Training Area.

## Exploration PEPR application – 12-month period

These lands remain to be mineral land under the Mining Act 1971 (SA) and can be accessed for mineral exploration and mining subject to certain restrictions and conditions under the Defence Act 1903 (Cth) and the Defence Regulation 2016 (Cth).

Will operations be conducted within the Port Wakefield Proof and Experimental Establishment, Murray Bridge Training Area, or Cultana Training Area?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Not applicable		
Do you have a Deed of Access with Defence?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
What is the expiry date of the Deed of Access?		
Provide the date the Range Control Officer granted access permission to conduct the proposed exploration operations.		
Describe the results of consultation and how any concerns raised were addressed.		
Not applicable		

### Native title

Using the table below, describe how you have complied with the requirements of Part 9B of the Mining Act for each tenement (for further information refer to [Minerals Regulatory Guidelines MG22](#)).

Native title			
Is the proposed area of exploration located on native title land?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If no, no further information in this section required.)		
Are there registered native title party/parties in the area of proposed exploration?	Yes <input type="checkbox"/> No <input type="checkbox"/>		If no, an Environment, Resources and Development (ERD) Court determination is required.
Have you negotiated a native title mining agreement?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Is the agreement registered?*	Yes <input type="checkbox"/> No <input type="checkbox"/>
Have you accepted an Indigenous land use agreement (ILUA)?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Is the ILUA registered?*	Yes <input type="checkbox"/> No <input type="checkbox"/>
Have you obtained ERD Court determination?†	Yes <input type="checkbox"/> No <input type="checkbox"/>	Is the determination registered?*	Yes <input type="checkbox"/> No <input type="checkbox"/>

\* The registration date refers to the date the agreement, determination or ILUA was registered with DEM.

† An ERD Court determination cannot be conjunctive (i.e. cannot apply to subsequent licences).

Provide any additional relevant information.

Not applicable
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### Landform and topography

Describe the topography of the general area affected by the exploration program. Include the susceptibility to erosion and visual attributes (steep or undulating slopes, plains, rocky outcrops, dunes, salt pans, clay pans etc.).

<p>From visits to the project area in October 2024 and before, it was noted the area is dominated undulating hills (photo 2), with elevation from public DEM data ranging from 70 m to 170 m above sea level. The area is mostly de-vegetated paddocks used for pastoral farming (photo 1, 3), with all planned activities occurring within these paddocks that are only vegetated with uncultivated grasses. Commonly the creeks and valleys have remnant native vegetation, with creeks typically trend south-east and south-west, with a general south to south-east flow direction. All creeks/drainages in the project area are part of the Chapman River catchment. Outcrop is rare with paddocks dominated by sandy soil with very rare rock float, with rock outcrop typically present at the base of incised valleys &amp; creeks.</p> <p>The areas most susceptible to erosion are the steeper slopes in valleys and creeks, while these areas are typically heavily vegetated reducing the likelihood of erosion.</p>
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### Soil and surface cover

Describe soil types and soil surface cover - e.g. gibber, rocky - in the general area affected by the exploration program. Include details on the susceptibility to compaction, erosion, dust, runoff and any other soil characteristics – e.g. acid sulphate – that may require control strategies to reduce environmental impacts during operations or rehabilitation.

## Exploration PEPR application – 12-month period

The soils in the project are sandy loams over strongly weathered saprolite and saprock (photo 1), and ironstone soils over lateritic gravels that dominate the tops of hills & plateaus.

DEW maps show the project area has:

- low to moderately low wind erosion potential
- low to moderate water erosion potential in flatter areas where drilling is planned, and high potential in vegetated valleys (where no activities are planned)
- Negligible acid sulphate soil potential

Considering the low potential reported by DEW, that no vegetation clearance is required, and activities are planned before winter, it is expected erosion potential will be low from the planned activities. Movement of heavy vehicles such as a drill rig will be limited as best as practical, but if soil compaction becomes an issue, it will be rectified with scarification during rehabilitation.

### Surface water

Will the proposed program interfere with surface water bodies and natural drainage (e.g. drainage lines, creeks, floodplains, wetlands)? If yes, describe the potential interference and surface water bodies and natural drainage on maps. If no, indicate why.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Planned activities will not affect any creeks or other water bodies. Existing farm tracks will be used to cross creeks where required, which are sufficiently built to handle the increased traffic from the planned activities.		
Is the program area located within water protection areas defined under the <i>River Murray Act 2003</i> ? If yes, provide the name(s).	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Is the program area located within any prescribed watercourses or prescribed surface water areas under the <i>Landscape South Australia Act 2019</i> ? If yes, provide the name(s).	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

### Groundwater

Is groundwater likely to be intersected when conducting the exploration program? If yes, use the table below to describe the expected groundwater (hydrogeological) conditions, and identify groundwater aquifers in the exploration area(s) that may be affected. Indicate the approximate depth of drillholes in each area. Copy and paste a new table for each area where different groundwater conditions are expected. If no, provide evidence or any supporting information demonstrating this.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
As tabulated below, it is likely groundwater in a fractured rock unconfined aquifer will be intersected at fairly shallow depths (< 10m).		

Description of the locality/area where different groundwater conditions may be encountered					
Entire Dudley Project Area					
Formation age and/or stratigraphic unit	Stratigraphic intervals (depth range) (m)	Aquifer formation name	Aquifer interval/thickness (from-to) (m)	Type of aquifer(s) intersected (e.g. unconfined, confined, artesian)	Provide aquifer salinity, depth to water level and any other relevant comments
Tapanappa Formation – Kanmantoo Group - Cambrian	Surface to 250m	Cambrian fractured rock aquifers	Surface to 250m	Fractured rock - Unconfined	<p><i>Data from a 2012 report on groundwater for Kangaroo Island show for boreholes near the project area:</i></p> <ul style="list-style-type: none"> <li>• A standing water level of 0-10m</li> <li>• Well yields of &lt; 1 litre per second</li> <li>• Total dissolved solids of 1,500-20,000 which are classed as brackish to saline</li> </ul> <p><i>Kanmantoo Group basement geology is described as generally tight and impermeable with few open fractures and joints</i></p>

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

## Exploration PEPR application – 12-month period

Hydrogeochemistry data from the closest well in WaterConnect (227962) to the project area has a TDS of 7523 mg/L recorded in September 2006, while groundwater TDS reported regionally have similar salinities (as described in the above table). These levels of TDS indicate the value of the groundwater is limited to livestock drinking water and aquaculture.

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

There are two GDEs recorded in the planned activities area:

- A terrestrial GDE of *Eucalyptus cneorifolia* mallee forest which has a moderate potential
- A terrestrial GDE of *Eucalyptus leucoxylon* ssp. *leucoxylon* woodland which has a high potential

Both GDEs are remnant native vegetation that line watercourses throughout the project area, and within the Vegetation Heritage Agreement Areas that are proximal to the project area. No activities are planned within the GDEs.

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

Yes  No

If yes, provide the name of the area.

Not applicable

Provide any additional information, if required.

Not applicable

### Native vegetation

Will you be working within areas of native vegetation? If yes, provide the following information:

Yes  No

- description of the formation and structure of vegetation in the area (e.g. woodland, shrubland, grassland)
- list of the dominant species.

If no, indicate why you will not be working within areas of native vegetation?

The area proposed for drilling activities is active pasture for sheep and cattle. There has been significant historical clearing of vegetation for farming, therefore there is ample area to plan drill sites in already cleared areas. No vegetation clearance is required.

### Significant habitats and flora

If you are working within areas of native vegetation, use the table below to list any significant habitats and any rare or endangered flora 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/habitat	Common name	NPW Act rating*	EPBC Act rating†
<i>Xanthorrhoea semiplana</i> ssp. <i>tateana</i>	Tate's Grass-tree	Rare	
<i>Hibbertia cinerea</i>	Port Lincoln Guinea-flower	Rare	
<i>Eucalyptus fasciculosa</i>	Pink Gum	Rare	
<i>Pomaderris halmaturina</i> ssp. <i>halmaturina</i>	Kangaroo Island Pomaderris	Vulnerable	Vulnerable
<i>Spyridium daphnoides</i>	Spoon-leaved Spyridium	Rare	
<i>Eucalyptus cneorifolia</i>	Kangaroo Island Narrow-leaf Mallee		Critically Endangered

\* *National Parks and Wildlife Act 1972* (NPW Act) conservation status includes extinct, endangered, vulnerable, threatened and rare.

† *Environment Protection and Biodiversity Conservation Act 1999* (Cth) (EPBC Act) listings include extinct, extinct in the wild, critically endangered, endangered, vulnerable and conservation dependent.

### 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*).

The weed *Asparagus asparagoides* (Bridal Creeper) is recorded in the project area.

### Fauna

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

## Exploration PEPR application – 12-month period

Native fauna common to the Kangaroo Island and possibly the project area include: Kangaroo Island Kangaroo, Tammar Wallaby, Southern Brown Bandicoot, Koala, Echidna, Black Tiger Snake, and Goanna. Kangaroos, Black Tiger Snakes, and Goannas have been spotted by company staff.

Feral fauna that are known in the area include: Feral Dog, Feral Cat, Goat, House Mouse, and Black Rat. Livestock active on the farm include cattle and sheep.

### Significant fauna

Where possible, using the table below, list any rare or endangered 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	Common name	NPW Act rating	EPBC Act rating
<i>Psophodes leucogaster lashmari</i>	White-bellied Whipbird (KI)	Rare	Endangered
<i>Isoodon obesulus obesulus</i>	Southern Brown Bandicoot (SA mainland and KI)	Vulnerable	Endangered
<i>Varanus rosenbergi</i>	Heath Goanna	Vulnerable	
<i>Funerea whiteae</i>	Yellow-tailed Black Cockatoo	Vulnerable	
<i>Burhinus grallarius</i>	Bush Stonecurlew	Rare	

Note: NPW Act conservation status includes extinct, endangered, vulnerable, threatened and rare.

EPBC Act listings include extinct, extinct in the wild, critically endangered, endangered, vulnerable and conservation dependent.

### Environmentally sensitive locations

Are there any environmentally sensitive locations within or close to the proposed exploration area (e.g. areas having particular ecological, cultural, scientific, aesthetic or conservation value)? If yes, provide a description of identified environmentally sensitive location(s). Mark these areas on a locality plan to identify any areas of conflict so that access roads or other activities can be planned and located effectively.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
<p>There are environmentally sensitive locations proximal, but not within, the planned activity area, including:</p> <ul style="list-style-type: none"> <li>Vegetation Heritage Agreement area HA 455 &amp; HA 466, on adjacent property to the south</li> <li>Vegetation Heritage Agreement area HA 468 &amp; HA 252, 1 km to the east</li> <li>Vegetation Heritage Agreement area HA 465, 2 km to the south-east</li> <li>Lashmar Conservation Park, 2.5 km to the east</li> </ul> <p>Only HA 455 is proximal (within 1 km) of the planned activities. To limit impacts to this Vegetation Heritage Agreement area, no drilling will be completed within 150 m of the boundary of HA 455.</p>		
Are you likely to impact on the environmentally sensitive area? If yes, detail the likely effects the proposed program may have.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Not applicable		
Include a statement concerning whether or not an Aboriginal heritage survey has been conducted by the proponent and if so, the results of the survey.		
As no earthworks or vegetation clearing is required and work is confined to already cleared land, no heritage survey has been completed. A search of the central archives of the Aboriginal Cultural Heritage Database and Register has reported no existing heritage sites within the exploration licence.		

## SECTION D – DESCRIPTION OF PROPOSED EXPLORATION OPERATIONS

Each of the elements listed below must be described only to the extent that they apply to the proposed exploration program.

### Equipment and personnel requirements

Using the table below, describe the equipment, size and composition of field crews, and proposed working hours/days required to conduct the proposed program.

Type of personnel	Number	Name of contractor company (if applicable)
Geologists	1-2	Trinex Minerals
Land access/environmental		
Field assistants/technicians	1-2	To be determined
Drilling crew	4-5	To be determined
Site preparation and rehabilitation	1-2	To be determined

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Other (provide details)					
<b>Shifts worked per day</b>		<b>Hours worked per day</b>		<b>Days worked per week</b>	
1		12		7	
<b>Equipment type</b>	<b>Owner/operator</b>	<b>Description/capacity</b>	<b>Activity/purpose</b>		
RC Drill Rig	To be determined	6-8 wheel drive truck	Truck with Reverse Circulation rig		
Air Compressor Truck	To be determined	6-8 wheel drive truck	Truck with air booster for RC rig		
Support Truck	To be determined	6-8 wheel drive truck	Truck for fuel and water, plus drilling consumables and tools.		
Tanker Truck	To be determined	6-8 wheel drive truck	Truck to transport excess water and cuttings		
Light Vehicle	To be determined	Toyota Landcruiser	Transport for drillers and gear		
Light Vehicle	Trinex Minerals	Toyota Hilux	Transport for geologist staff and gear		

Provide any additional information, if required.

### Low impact exploration activities

Will low impact exploration operations be conducted that are not covered by the <a href="#">Generic program for environment protection and rehabilitation – low impact mineral exploration in South Australia</a> , (generic PEPR)? If yes, describe each type of low impact operations proposed.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Not applicable		

### Drilling activities

Will exploration drilling activities be conducted? If yes, fill out the below table	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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Tenement	Drilling type	Maximum number of drillholes	Maximum drillhole depth (m)	Maximum number of sumps required at each site	Maximum size of sumps (length x depth x width) (m <sup>3</sup> )	Average size of each drill pad* (m <sup>2</sup> ) (no excavation required)	Number of sites requiring pad excavation	Average volume (m <sup>3</sup> ) of material to be excavated (excluding sumps)
EL6892	RC	30	250	0	N/A	375	0	0
<b>TOTAL</b>		<b>30</b>	<b>7,500</b>	<b>0</b>	<b>N/A</b>	<b>11,250</b>	<b>0</b>	<b>0</b>

Total number of drillholes (add each row to calculate the total).	Total metres proposed (maximum number of holes x average depth for each row, then add each row to calculate the total).	Total number of sumps (maximum number of sumps x drillsites for each row, then add each row to calculate the total).	Total volume of sumps (maximum size of sumps x number of sumps for each row, then add each row to calculate the total).	Total area of disturbance (number of holes x average size for each row, then add each row to calculate the total).	Total number of pads requiring excavation (add each row to calculate the total).	Total volume of material to be excavated (number of sites requiring excavation x average volume for each row, then add each row to calculate the total).
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\* The footprint includes all areas of disturbance associated with the drillsite.

### 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.

All planned drill sites will be located in cleared paddocks (photo 3), therefore no vegetation clearing will be required. The farm landowner and manager will be consulted on location of drill sites to lessen impact on their activities. Drilling will be completed on grass paddocks without modification by earthmoving equipment. Black plastic will be laid under the rig and booster to minimise impact of potential hydrocarbon leaks and spills from the rig and booster. A tarp will be used under the cyclone to collect any cuttings spillage from the cyclone or sample bags.

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There is flexibility for drill site selection, and drill sites will be located on the flattest terrain (photo 3) to avoid requiring earthworks for levelling. No sumps are required to be excavated, as potential groundwater will be collected in an above-ground collection system.

### Drillhole construction and decommissioning

Have the personnel responsible for implementing the proposed program read and understood the Earth Resources Information Sheet M21, <a href="#">Mineral exploration drillholes – general specifications for construction and backfilling?</a>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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.		
<p>Drillholes are to be drilled from surface using an RC hammer bit, at 8" (20.3 cm) diameter to 6m for casing, then 5 ½" (14 cm) bit for the remainder of the hole.</p> <p>RC Drillholes will be cased with up to 6m of 200mm PVC pipe. PVC casing will be set with A &amp; B foam at surface to secure the PVC during drilling, with the PVC casing capped immediately after drilling to prevent access by fauna.</p>		
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.		
<p>Drillholes will be decommissioned following Information Sheet M21 specifications. The drill area is an unconfined fractured rock aquifer. Therefore, as per the specifications, the drillhole will be back-filled with drill cuttings and capped with native soil. PVC casing will be cut and capped below surface, or removed by the drill rig immediately after drilling if possible.</p> <p>Drillhole rehabilitation will be completed after assays are received, which is estimated to take 1-2 months from drilling.</p>		

Where confined or artesian conditions are expected, include a schematic diagram demonstrating how drillholes will be constructed and decommissioned

### Costeans and bulk sample disposal pits

Will costeans/bulk sample disposal pits be required for the proposed program? If yes, fill out the table below.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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Tenement	Number of costeans/pits	Size of costean (length x width) (m <sup>2</sup> )	Average depth (m)	Volume excavated (m <sup>3</sup> )	Total volume excavated (m <sup>3</sup> ) (number of costeans/pits x volume)	Total area of disturbance* (length x width) (m <sup>2</sup> )
<b>TOTAL</b>						

Total number of costeans/pits (add each row to calculate the total).

Total volume of material to be excavated (add each row to calculate the total)

Total area of disturbance (number of costeans/pits x area of disturbance for each row, then add each row to calculate the total).

\*Includes storage of excavated material at the site (e.g. topsoil and subsoil segregation).

### Costeans and bulk sample disposal pit preparation

If costeans/bulk sample disposal pits are required, describe site preparation methods, vegetation clearance, and safety and maintenance requirements.

Not applicable

### 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).

As typical with RC drilling, 25-50 kg of chips will be collected per metre of drilling. The chips will be collected into green plastic bags and left near the drill collar until rehabilitation. A 1-3 kg sub-sample will be split into a calico bag and used for assaying. Green bags may also be sub-sampled and composited instead of using 1m calico sub-samples. A tarp will be used under the rig cyclone to collect any cutting spillage not collected into bags.

During rehabilitation, any remaining chips/cuttings will be poured down the drill hole and empty bags disposed at a waste facility. Green bulk sample bags may be moved off-site or to a local fenced location if the bags are a hazard to livestock, or results are positive enough to warrant storage of selected samples. It is expected rehabilitation will occur about 2-3 months after drilling (after assay results are received), therefore it

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is expected bags will remain at the drill site for 2-3 months. It is expected the sample bags will not degrade within 3 months, but bags will be inspected monthly to check for degradation. If degradation of bags is occurring earlier than planned rehabilitation, rehabilitation of sample bags will occur (as described above) or bags will be moved off-site to limit soil contamination.

The drill rig will have a cuttings & water collection system that collects excess cuttings & groundwater from the cyclone and exhaust. The cuttings & water will be stockpiled into above ground sumps and/or a tanker truck and disposed of at an approved waste facility. If groundwater runoff exceeds the system's capacity, drilling will be suspended until this can be rectified.

### Access routes to work areas

Will existing tracks require upgrading and/or maintenance? If yes, detail the work required to upgrade/maintain existing tracks.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Not applicable		
Will access be required across adjoining tenements? If yes, 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.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Not applicable		
Will access off existing tracks be required? If yes, detail the method(s) for gaining access and if vegetation clearance is required. Include 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).	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
<p>Yes, access to drill sites will require limited driving through already cleared paddocks, where existing farm tracks are not available. Existing tracks will be utilised as best as practically possible before accessing through paddocks. No clearing of vegetation or construction of new tracks is required. New tracks through open paddocks will be re-used to minimise impact to paddocks. Where possible, driving will be along fence lines to access sites in paddocks.</p> <p>It is estimated there would be up to 4,500 m of off-track driving (through cleared paddocks). This would be 13,500 m<sup>2</sup> of disturbance area with a 3 m width track.</p>		

Indicate planned access routes on a locality plan and distinguish between existing and proposed new access tracks and drill lines (including fence lines).

### Campsites, storage and equipment laydown areas

Using the tables below, provide a description of campsites and/or laydown areas required. Indicate the campsite and laydown area on a locality plan.

Campsite details		
Indicate where staff and contractors will be accommodated during the exploration program.		
Staff and contractors will be accommodated in Penneshaw in hotels and short-term rental houses. No camp is required.		
What is the maximum number of personnel requiring accommodation?	8	
Is a campsite required to be established? If no, no further information is required.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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)?	ha	
What will be the total area (ha) of vegetation clearance for the campsite?	ha	
If vegetation clearance is required, describe the methods used to prepare the site.		
Will any excavations be required? If yes, describe the purpose of the excavation and the maximum volume (m <sup>3</sup> ) of material to be excavated.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Are the proposed ablution facilities endorsed/approved for use by the Department of Health or local council, where applicable? If no, indicate why.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Proposed infrastructure (includes caravans, tents, offices, hydrocarbon and water storage requirements etc)	Quantity	Description/capacity

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Laydown area details		
Will laydown areas be required? If no, no further information is required.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Will the laydown area(s) be located at the same location as the campsite? If no, has the location(s) been discussed with the landowner?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
<i>Discussion with landowner to utilise existing shed in central part of property for a laydown area.</i>		
What will be the maximum area (ha) required for the laydown area(s)?	0 ha	
What will be the total area (ha) of vegetation clearance for the site?	0 ha	
If vegetation clearance is required, describe the methods used to prepare the site.		
Will any excavations be required? If yes, describe the purpose of the excavation and volume (m <sup>3</sup> ) of material to be excavated.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Proposed infrastructure (includes hydrocarbon and water storage requirements)	Quantity	Description/capacity
Temporary pallet bunds	1000 L	<i>Portable bunded pallets will be used to store any hydrocarbons and chemicals at the shed laydown area.</i>
Provide a description and justification of the location (e.g. previously cleared areas), and any other relevant information if required.		
<i>The laydown will be at existing shed in central part of property (Located 230510 mE 6036080 mN). The shed is a very suitable location for a laydown due to the infrastructure is already in place and the area is already heavily disturbed. The shed is only 100m from the main farm access track, with access via an existing track along a fence line. The laydown area will be rehabilitated at the end of the program by removing all rubbish/gear and grade or level the access track and laydown area if required (if ruts have developed).</i>		

### Other exploration methods and/or ancillary operations

Are any other proposed exploration methods (e.g. seismic) and/or ancillary exploration operations required? If yes, describe the activity(s), site preparation, vegetation clearance, and safety and maintenance requirements.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
<i>Not applicable</i>		

### Water supply and management

Will camp and/or drilling water be required? If yes, describe how and where water will be sourced for drilling, track maintenance and camping purposes (e.g. groundwater, surface water, mains). Provide details on the volume of water required and how wastewater or runoff water will be managed.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
<i>No camp water is required.</i>		
<i>It is estimated 1,000 L of water will be required daily for drilling, for dust suppression and general cleaning on the drill rig. The water will be sourced from mains supply at Penneshaw and stored &amp; transported in the rig support truck.</i>		
<i>The drill rig will have a cuttings &amp; water collection system that collects excess cuttings &amp; groundwater from the cyclone and exhaust. The cuttings &amp; water will be stockpiled into above ground sumps and/or a tanker truck and disposed of at an approved waste facility. If groundwater runoff exceeds the system's capacity, drilling will be suspended until this can be rectified.</i>		
Will surface water and/or mineral drillholes be used as a water source/supply? If yes, 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. If a licence is required and has been obtained please attach a copy. Where a licence has not been obtained, include a statement confirming that a licence will be obtained before the extraction and/or usage of water.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
<i>Not applicable</i>		

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### Groundwater and drilling investigation activities

Will any water bores be required and/or water investigation activities (e.g. pump testing, water monitoring sites, water storage, turkey nests/dams) be conducted? If yes, describe the water drilling and investigation activities, including site preparation, vegetation clearance, and safety and maintenance requirements.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Not applicable		
Indicate if well permits have been obtained and whether or not a water extraction licence is required in accordance with the Landscape South Australia Act 2019. If yes, attach a copy of the permit(s)/licences. If no, provide a statement confirming that permits/licences will be obtained prior to commencement of water investigation activities.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
No water investigation activities are planned, but all licences/permits and a review of this PEPR will be completed if plans change, and these activities are required.		

### Water affecting activities

Will any water affecting activities, other than drilling a water well, be undertaken (refer to s. 127 of the Landscape South Australia Act 2019)? If yes, attach a copy of the permit. If a permit has not been obtained, provide a statement confirming that a water affecting activity permit(s) will be obtained and provide a description of the site preparation, vegetation clearance, and safety and maintenance requirements.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Not applicable		

### Management of hazardous materials

Will activities be conducted in areas of known uranium and thorium mineralisation? If yes, attach a Radiation Management Plan and confirmation of endorsement of the plan by the Environment Protection Authority South Australia (EPA).	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Will any other hazardous material be encountered when exploring in the area? If yes, list the types of hazardous materials and provide a management plan on how these materials will be managed.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Not applicable		

### Rehabilitation

Detail all the activities and strategies relating to the remediation of impacts associated with the proposed exploration operations.  Completion of rehabilitation must be achieved within 3 months after the expiry of this PEPR.  Rehabilitation is expected to take place 2-3 months after completion of drilling, after assays are received. Drillholes will be decommissioned following Information Sheet M21 specifications. The drill area is an unconfined fractured rock aquifer. Therefore, as per the specifications, the drillhole will be back-filled with drill cuttings from sample bags and capped with native soil. Empty sample bags will be deposited off at an approved waste facility.  As there will be no earthworks or clearing associated with the planned activities, no major earthworks will be required to return the sites to the original condition. All rubbish will be removed at the end of the drillhole. Any cuttings on the drill pad will be poured down the hole. Any ruts on drill pad or tracks will be evened out with a small loader and/or raked over. Any damage to existing farm tracks will be remediated with a loader or grader. If the sites and access tracks are significantly compacted, the ground will be scarified to a depth of ~10 cm with a tractor, in consultation with the landowner to occur at timing that promotes growth of pasture grasses. As the land use primarily is unimproved pasture, it is expected the seed bank within the soil will be sufficient to revegetate to the original condition.  For comparison, photos will be taken of sites and access before the drilling starts and after rehabilitation.  Rehabilitation will be completed as the program progresses. As the drilling will be completed in stages, it is estimated that around one third of the program will be un-rehabilitated at any one time – this would equate to a maximum disturbance of 10 RC holes with 3,750 m <sup>2</sup> of drill pads and 1,500 m (area of 4,500 m <sup>2</sup> ) of off-track driving through paddocks.
State the estimated budget required to rehabilitate impacted sites. Estimated to cost \$8,000 to rehabilitate all sites.

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### Vegetation Clearance

Will any area of cleared native vegetation be unrehabilitated after the authorised period?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
If yes, provide a description of the vegetation present in the application area, the extent of the proposed vegetation clearance and the likelihood of the presence of threatened flora. Provide this information on a map.		
Not applicable		
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.		
Not applicable		

### SECTION E – LEASE CONDITIONS

#### Retention leases

Where the retention lease includes specific conditions that are not environmental outcomes, demonstrate where these have been addressed in the PEPR (if relevant) or demonstrate how otherwise they have or will be complied with.

Not applicable
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**SECTION F – MANAGEMENT OF ENVIRONMENTAL IMPACTS**

Use the table below (instructions provided) to identify all of the potential environmental, social and economic impact events that are likely to occur as a result of the proposed exploration operations, how each of the identified impacts will be managed, and the residual risk, i.e. the level of risk remaining after implementing control and management strategies. Identified potential impact events should be developed based on the aspects of the environment that may be impacted on and the proposed operational details. Potential impact events must have corresponding outcomes and measurement criteria.

Where the terms and conditions of an RL include environmental outcomes, list them (where different) in the table below and complete all sections (ie receptor, potential impacts, control strategies, risk assessment and measurement criteria).

**Environmental management – potential impacts/events, outcomes, measurable criteria and monitoring plan**

			Likelihood of consequence (LH)				
			1	2	3	4	5
			Rare	Unlikely	Possible	Likely	Almost certain
Severity of consequence (CQ)	A	Insignificant	Low	Low	Low	Low	Low
	B	Minor	Low	Low	Moderate	Moderate	Moderate
	C	Moderate	Moderate	Moderate	High	High	High
	D	Major	High	High	Extreme	Extreme	Extreme
	E	Catastrophic	High	Extreme	Extreme	Extreme	Extreme

**How to fill out the table**

1. Based on the description of the environment and exploration operations, indicate which potential impacts are applicable to the proposed program. Note that some potential impacts are applicable to all programs.
2. For each applicable potential impact (and corresponding receptor), describe control strategies that will reduce the risk of the potential impact to an acceptable level, and achieve the corresponding environmental outcomes.
3. Conduct an impact assessment to determine if the control strategies address the potential impact (i.e. reduce the risk to an acceptable level). Indicate where there is uncertainty pertaining to the likely effectiveness of the control strategies. Where the risk is not considered low, provide justification that the risk is acceptable, or consider additional strategies to reduce the risk to an acceptable level.
4. For each applicable potential impact, the corresponding outcome and outcome measurement criteria are required.
5. Based on the description of the environment and proposed exploration activities, determine if any other potential impacts are applicable. For each new potential impact, describe proposed control and rehabilitation strategies, conduct an impact assessment, and develop corresponding outcomes and outcome measurement criteria.

Use the above matrix to conduct an impact assessment for each potential impact.

Impact assessment							Outcomes	Outcome measurement criteria (inc. monitoring plan)
Receptor	Potential impacts	Is the potential impact applicable (Yes/No)	Control strategies	Risk assessment				
Lists are not exhaustive.	Lists are not exhaustive.	Some potential impacts are applicable to all programs.	Indicate where there is uncertainty pertaining to the likely effectiveness of the control strategies. Where the risk is not considered low, provide justification that the risk is acceptable, or consider additional strategies to reduce the risk to an acceptable level. – refer to <a href="#">Minerals Regulatory Guidelines MG22</a> for more information.	LH	CQ	Risk		
Stakeholders: <ul style="list-style-type: none"> <li>• freehold land owners</li> <li>• perpetual lease holders</li> <li>• pastoral lease holders</li> <li>• Aboriginal land (Anangu Pitjantjatjara and Maralinga Tjarutja lands)</li> <li>• Department of Defence</li> <li>• state government departments.</li> <li>• local government (councils)</li> <li>• federal government</li> <li>• native title parties.</li> </ul>	Interference to: <ul style="list-style-type: none"> <li>• existing or permissible land use (includes loss of income, noise, dust, light and other emissions).</li> <li>• buildings, structures, existing tracks or other infrastructure.</li> <li>• aesthetic values of an area.</li> </ul> Noncompliance with legislative requirements.	Yes (Applicable to all programs.)	<ul style="list-style-type: none"> <li>• Early discussions with landowner and manager on planned activities – in person, on the phone and via email</li> <li>• Regular communication with landowner and manager during planned activities to keep them informed and to see if any issues raised</li> <li>• Discuss with farm manager on drill locations to limit stock interactions</li> <li>• Visit drill sites and access tracks before and after drilling with landowner and/or manager to ensure sites are to satisfaction of owner/manager</li> <li>• Utilising existing tracks as much as possible for drill site access</li> <li>• No exploration activities within 25m of sheds and dams to avoid any potential damage to infrastructure</li> <li>• Limit speed of vehicles throughout farm to reduce impact to track and chance of accidental collision with livestock or infrastructure such as gates, fences, and sheds</li> <li>• Gates to be kept as landowner requires to prevent unwanted movement of livestock</li> <li>• Gates will be utilised with no crossing or knocking down of fences</li> <li>• Existing tracks will be remediated with a grader or loader to satisfaction of landowner</li> <li>• Rehabilitate drill sites and tracks at end of the program</li> <li>• Day time only drilling activities to so no noise pollution at night</li> <li>• Suspend drilling activities during extreme weather to limit risk of fire and damage to tracks</li> <li>• Clean and wash down vehicles for weeds/seeds/soil before entry to farm</li> <li>• Perform risk assessment before rig crossing under SAPN powerline, when traversing between drillholes, to ensure no risk of contact or arcing</li> </ul>	2	B	L	<b>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.</b>	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.

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Impact assessment						Outcomes	Outcome measurement criteria (inc. monitoring plan)	
Receptor Lists are not exhaustive.	Potential impacts Lists are not exhaustive.	Is the potential impact applicable (Yes/No) Some potential impacts are applicable to all programs.	Control strategies Indicate where there is uncertainty pertaining to the likely effectiveness of the control strategies. Where the risk is not considered low, provide justification that the risk is acceptable, or consider additional strategies to reduce the risk to an acceptable level. – refer to <a href="#">Minerals Regulatory Guidelines MG22</a> for more information.	Risk assessment LH = likelihood of consequence CQ = severity of consequence				
				LH	CQ			Risk
			<ul style="list-style-type: none"> <li>No drilling activities (from edge of drill pad) within 25 m of SAPN powerline or power poles</li> </ul>					
Stakeholder: DEW	Interference to: <ul style="list-style-type: none"> <li>existing or permissible land use.</li> <li>buildings, structures, existing tracks or other infrastructure.</li> <li>aesthetic values of an area.</li> </ul> Noncompliance with legislative requirements.	No (Applicable to programs located adjacent to or within parks and reserves.)				<b>For activities located within or adjacent to regional reserves, national, conservation and marine parks only:</b> <ul style="list-style-type: none"> <li>no unauthorised interference with park management activities.</li> </ul>	Provide confirmation that: <ul style="list-style-type: none"> <li>Park access notification forms were submitted to DEW and DEM at least 10 days prior to entry into regional reserves, national, conservation and marine parks, or</li> <li>Program notifications for PEPRs approved for an ongoing period of time, were submitted to DEW and the DEM at least 21 days prior to entry into regional reserves, national, conservation and marine parks.</li> </ul>	
Flora and fauna and their habitats; includes Commonwealth and state scheduled species.	Loss/modification of native vegetation and associated habitats through the clearance of vegetation.	No (Applicable to exploration programs located within or impacting on native vegetation.)				<b>No permanent loss/modification of native flora and fauna populations and their habitats through:</b> <ul style="list-style-type: none"> <li>clearance</li> <li>fire</li> <li>other</li> </ul> <b>unless prior approval under the relevant legislation is obtained.</b>	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: <ul style="list-style-type: none"> <li>The area and method of disturbance is consistent with that described in the PEPR.</li> <li>No uncontrolled fires* occurred as a result of exploration activities.</li> </ul> Representative photos to be included within the annual exploration compliance report.	
All flora and fauna, especially listed species.	Loss/modification of the environment (biological, social and economic) through the introduction of weeds and pathogens.	Yes (Applicable to all programs.)	<ul style="list-style-type: none"> <li>Cleaning and washing down of all vehicles for weeds/seeds/soil before mobilising to site with inspection by company personnel to ensure compliance</li> <li>Vehicles to stay to existing tracks where possible and limit driving through open paddocks</li> <li>Review public GIS data on recordings of weeds and pathogens in the project area</li> <li>Potential of weeds and pathogens discussed during induction to project and at safety meetings</li> <li>No earthworks or access required into native vegetation areas where flora and fauna more common</li> <li>All drill sites and access tracks will be inspected for native fauna and their habitats (e.g. burrows, nests) and remnant flora – if found flexibility in drill plan will allow adjustment of drill sites and tracks to totally avoid any fauna and flora</li> <li>No drill sites to be located in areas more likely to contain fauna habitats, e.g. rocky outcrop, valleys, near water courses</li> <li>Provide information on listed species within the project area at inductions and safety meetings, for all workers to be able to identify any listed fauna and flora, to report and avoid</li> </ul>	2	B	L	<b>No introduction of new species of weeds and plant pathogens, nor increase in abundance of existing weeds species.</b>	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>

Exploration PEPR application – 12-month period

Impact assessment							Outcomes	Outcome measurement criteria (inc. monitoring plan)
Receptor Lists are not exhaustive.	Potential impacts Lists are not exhaustive.	Is the potential impact applicable (Yes/No) Some potential impacts are applicable to all programs.	Control strategies Indicate where there is uncertainty pertaining to the likely effectiveness of the control strategies. Where the risk is not considered low, provide justification that the risk is acceptable, or consider additional strategies to reduce the risk to an acceptable level. – refer to <a href="#">Minerals Regulatory Guidelines MG22</a> for more information.	Risk assessment LH = likelihood of consequence CQ = severity of consequence				
				LH	CQ	Risk		
All fauna	Entrapment of fauna through open drillholes and excavations.	Yes (Applicable to exploration programs that involve drilling and/or require excavations.)	<ul style="list-style-type: none"> <li>Holes will be capped/plugged immediately after drilling to prevent access by fauna</li> <li>During rehabilitation, holes will be back-filled and covered as per specifications in Information Sheet M21</li> <li>Rehabilitation to be completed as soon as practical</li> <li>No sumps to be constructed</li> <li>It is expected above ground water and cutting tanks will be fully enclosed – if they are open at the top, they will be covered and secured with a tarp when not in use to keep fauna out</li> </ul>	1	B	L	<b>No fauna traps created as a result of exploration activities.</b>	<p>Maintain before, during and after photographic evidence of all drillholes and/or excavations demonstrating that:</p> <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.</li> </ul> <p>Representative photos are to be included within the annual exploration compliance report.</p> <p>Provide the information requested within the 'Rehabilitation' section of the annual exploration compliance report.</p>
Aboriginal heritage sites	Disturbance to Aboriginal heritage.	Yes (Applicable to all programs.)	<ul style="list-style-type: none"> <li>Searched the central archives of the Aboriginal Cultural Heritage Database and Register for any sites within the project area and surrounds</li> <li>Planned activities are all within cleared land, so no earthworks will be required</li> <li>Any potential heritage sites discovered during planned activities will be reported and work in vicinity halted, followed by discussions with Traditional Owners on approach to further work around the site</li> </ul>	1	B	L	<b>No disturbance to Aboriginal artefacts or sites of significance unless prior approval under the relevant legislation is obtained.</b>	<p>Maintain a database and provide a statement within the 'Compliance with approved programs' section of the annual exploration compliance report demonstrating that:</p> <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>
European heritage sites and sites of scientific and environmental significance	Disturbance to European heritage sites and sites of scientific and environmental significance (e.g. geological monuments, fossil reserves).	No (Applicable to exploration programs located close to or within European heritage sites and sites of scientific and environmental significance.)					<b>No disturbance to European heritage sites and to sites of scientific and environmental significance unless prior approval under the relevant legislation is obtained.</b>	<p>Demonstrate no impact to heritage sites and sites of scientific and environmental significance by:</p> <ul style="list-style-type: none"> <li>Maintaining evidence, including detailed maps showing sites compared to the location of exploration activities, and photographic evidence of sites before and after the conduct of the exploration program.</li> <li>Providing a statement within the annual exploration compliance report confirming sites were not impacted during the conduct of the exploration program.</li> </ul>

Exploration PEPR application – 12-month period

Impact assessment							Outcomes	Outcome measurement criteria (inc. monitoring plan)
Receptor	Potential impacts	Is the potential impact applicable (Yes/No)	Control strategies	Risk assessment				
Lists are not exhaustive.	Lists are not exhaustive.	Some potential impacts are applicable to all programs.	Indicate where there is uncertainty pertaining to the likely effectiveness of the control strategies. Where the risk is not considered low, provide justification that the risk is acceptable, or consider additional strategies to reduce the risk to an acceptable level. – refer to <a href="#">Minerals Regulatory Guidelines MG22</a> for more information.	LH = likelihood of consequence CQ = severity of consequence	LH	CQ		
Soil/vegetation/fauna	Soil/vegetation contamination (e.g. hydrocarbons, rubbish, drill samples/cuttings, ablutions, other sources).	Yes (Applicable to all programs.)	<ul style="list-style-type: none"> <li>All general rubbish will be collected on site and disposed at appropriate facilities</li> <li>Hydrocarbons and chemicals will be banded in accordance with EPA guidelines</li> <li>Only bio-degradable drilling products and muds will be used downhole</li> <li>Spill kits will be present at the rig and at any laydown area with hydrocarbons/chemicals and utilised for any spills</li> <li>Hydrocarbon spills will be reported</li> <li>Black plastic will be placed under the drill rig and booster during operation to limit initial impact of potential hydrocarbon leaks</li> <li>Excess drill cutting will be disposed of down the drillhole during rehabilitation or at an approved waste facility</li> <li>Sites will be immediately inspected post-drilling to check for any leftover rubbish</li> </ul>	2	B	L	<p><b>No contamination of soil and vegetation as a result of exploration activities.</b></p> <p>Demonstrate that all domestic or industrial waste (includes general rubbish and hydrocarbons) is disposed of in accordance with the <i>Environment Protection Act 1993</i> 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.</li> </ul> <p>Maintain photographs of all exploration sites and provide representative photos within the annual exploration compliance report demonstrating that drill cuttings are:</p> <ul style="list-style-type: none"> <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, <a href="#">Radiation protection guidelines on mining in South Australia: mineral exploration</a>, 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.</li> </ul> <p>Provide the information requested within the 'Rehabilitation' section of the annual exploration compliance report.</p>	
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).	Yes (Applicable to all programs.)	<ul style="list-style-type: none"> <li>Vehicles will stay on existing tracks where possible and minimise driving on open paddocks</li> <li>Where new temporary tracks are created by off-track driving through open paddocks, vehicles will re-use the same tracks for access in and out</li> <li>Drill sites are all with cleared paddocks, to prevent need for vegetation clearing</li> <li>Access tracks across paddocks will be unprepared ground to retain root stock</li> <li>Drill sites will be located on flat areas, to prevent need for cut and fill earthworks</li> <li>A cuttings &amp; water capture system will be used to prevent need for in-ground sumps</li> <li>Any compaction or ruts after drilling on drill sites or tracks will be lightly scarified to ~10 cm depth using a tractor to return to natural landform, with scarifying around contours</li> <li>Laydown for drillers and staff will use existing shed provided by farmer – gear and vehicles will stay within the existing shed footprint where ground is already compacted, and gravel has been laid down</li> <li>Access to the laydown shed will be limited to the existing 100m track along fence line from main farm track</li> <li>Staff will be accommodated in town, requiring no need for camp facilities</li> <li>Sample bags will be rehabilitated and removed from site as soon as practical (2-3 months after drilling) and monitored for degradation monthly, to determine if bags need to be disposed or moved early</li> </ul>	3	A	L	<p><b>Where soil disturbance occurs as a result of exploration activities, ensure that:</b></p> <ul style="list-style-type: none"> <li>topsoil quality and quantity is maintained</li> <li>the soil profile and topography is reinstated to original conditions</li> <li>there is no accelerated soil erosion.</li> </ul> <p>Maintain before, during and after photographic evidence of all excavations, drillsites, camps, laydown areas and new tracks demonstrating that:</p> <ul style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>There are no signs of accelerated soil erosion during and post rehabilitation of disturbed sites.</li> </ul> <p>Representative photos to be included within the annual exploration compliance report.</p> <p>Provide the information requested within the 'Rehabilitation' section of the annual exploration compliance report.</p>	

Exploration PEPR application – 12-month period

Impact assessment							Outcomes	Outcome measurement criteria (inc. monitoring plan)
Receptor <small>Lists are not exhaustive.</small>	Potential impacts <small>Lists are not exhaustive.</small>	Is the potential impact applicable (Yes/No) <small>Some potential impacts are applicable to all programs.</small>	Control strategies <small>Indicate where there is uncertainty pertaining to the likely effectiveness of the control strategies. Where the risk is not considered low, provide justification that the risk is acceptable, or consider additional strategies to reduce the risk to an acceptable level. – refer to <a href="#">Minerals Regulatory Guidelines MG22</a> for more information.</small>	Risk assessment <small>LH = likelihood of consequence CQ = severity of consequence</small>				
				LH	CQ	Risk		
Surface water	Alteration to surface water – interference to surface drainage.	No <small>(Applicable to exploration programs that are likely to impact on surface drainage channels.)</small>					<b>No permanent modification to hydrological features caused by exploration activities without obtaining a water affecting permit from the relevant Landscape Board (under Landscapes Act SA 2019).</b>	Provide before, during and after photographic evidence within the annual exploration compliance report demonstrating that original drainage contours (watercourses and lakes) are consistent with the natural relief post rehabilitation 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).  Alternatively, provide copies of water affecting permits within the annual exploration compliance report.
Groundwater/aquifer	Groundwater contamination: <ul style="list-style-type: none"> <li>contamination of aquifers through entry of pollutants from the surface</li> <li>interconnection between aquifers</li> <li>degradation of natural hydrostatic conditions (maintain pre-drilling pressures).</li> </ul>	Yes <small>(Applicable to all exploration programs that may intersect groundwater.)</small>	<ul style="list-style-type: none"> <li>Only bio-degradable drilling products and muds will be used downhole</li> <li>Drilling is expected to intersect only unconfined fractured rock aquifers. Holes will be rehabilitated in accordance with Information Sheet M21.</li> <li>If confined aquifers are intersected, rehabilitation of drillholes will change suited to M21</li> <li>Record details of any groundwater intersected, such as depth and flow rates</li> <li>Research expected groundwater conditions on SARIG &amp; WaterConnect prior to drilling</li> </ul>	1	B	L	<b>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.</b>	Maintain evidence demonstrating that drillholes are decommissioned in accordance with Earth Resources Information Sheet M21, <a href="#">Mineral exploration drillholes – general specifications for construction and backfilling</a> , 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.
Soil/vegetation/fauna	Discharge of groundwater into the surrounding environment.	Yes <small>(Applicable to all exploration programs that may intersect groundwater or where activities require the discharge of groundwater into the surrounding environment.)</small>	<ul style="list-style-type: none"> <li>If groundwater is encountered during drilling, it will be contained in the driller's cuttings/water recovery system</li> <li>If groundwater flow exceeds capacity of the system, drilling will be suspended</li> <li>Water and cuttings will be disposed of at approved off-site facility</li> </ul>	2	B	L	<b>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.</b>	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.
Groundwater users	Interference to existing water users when extracting water from existing dams, water bores or mineral drillholes.	No <small>(Applicable to all exploration programs that may require the use of water from existing dams, water bores or mineral drillholes.)</small>					<b>No public nuisance impacts resulting from the extraction of water for exploration purposes, unless prior approval under the relevant legislation is obtained.</b>	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.
Soil/vegetation/fauna	Degradation of rehabilitated access tracks caused by third party access (includes previously closed and rehabilitated access tracks).	No <small>(Applicable to exploration programs that create new access tracks.)</small>	<ul style="list-style-type: none"> <li>Access tracks will be through open cleared paddocks – blocking of tracks is not possible as this would impede access for farming activities</li> <li>Planned activities are within private freehold land not accessible to the general public</li> </ul>				<b>Rehabilitated access tracks remain permanently closed, unless prior approval under the relevant legislation is obtained.</b>	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.
Community/landowners	Damage to infrastructure and loss of income through fire.	Yes <small>(Applicable to all programs.)</small>	<ul style="list-style-type: none"> <li>All vehicles fitted with fire extinguishers</li> <li>Fire suppression units fitted to rig and compressor</li> <li>No fires permitted anywhere on site</li> <li>Hot works (grinding, welding) only after completing risk assessment</li> <li>Drilling to be suspended on Total Fire Ban days or when company or landowner considers fire risk too high</li> </ul>	2	B	L	<b>No loss of infrastructure or income through fire as a result of exploration activities.</b>	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.

Exploration PEPR application – 12-month period

Impact assessment						Outcomes	Outcome measurement criteria (inc. monitoring plan)	
Receptor <small>Lists are not exhaustive.</small>	Potential impacts <small>Lists are not exhaustive.</small>	Is the potential impact applicable (Yes/No) <small>Some potential impacts are applicable to all programs.</small>	Control strategies <small>Indicate where there is uncertainty pertaining to the likely effectiveness of the control strategies. Where the risk is not considered low, provide justification that the risk is acceptable, or consider additional strategies to reduce the risk to an acceptable level. – refer to <a href="#">Minerals Regulatory Guidelines MG22</a> for more information.</small>	Risk assessment <small>LH = likelihood of consequence CQ = severity of consequence</small>				
				LH	CQ			Risk
General public	Injury or death to members of the public as a result of exploration activities.	Yes (Applicable to all programs.)	<ul style="list-style-type: none"> <li>Drilling to be completed on private freehold land, therefore unlikely for public to be present</li> <li>Only inducted personnel are allowed near the operating rig and rig to shutdown if un-inducted people approach</li> <li>Visitors will be required to undergo a visitor's induction and be accompanied by inducted staff</li> <li>Rig will be sign posted with a "no entry" sign and dangerous areas (e.g. under rod handler, near booster hose) cordoned off with cones or chains</li> <li>Machinery will be locked at night to prevent misuse</li> </ul>	1	D	H	<p><b>No accidents involving the public that could have been reasonably prevented by the licensee.</b></p>	<p>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.</p> <p>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.</p>
General public, employees, contractors and the environment	Contamination of the environment when exploring for known uranium and thorium deposits.  Public and employee/contractor exposure to low level radiation.	No (Applicable to exploration programs located within known uranium or thorium deposits.)					<p><b>No increase in background radiation levels, and employee/contractor exposure levels during the exploration program are within safe limits.</b></p>	<p>Maintain a database and provide a statement within the 'Compliance with approved programs' section of the annual exploration compliance report demonstrating that:</p> <ul style="list-style-type: none"> <li>Radiation levels post exploration and rehabilitation are consistent with pre-existing background levels.</li> <li>Employee and contractors exposure levels were within safe limits during the exploration program.</li> </ul>
Other (if applicable)								

\* Uncontrolled fires = fires that escape outside of the work area (e.g. drillsite).

† Properties = freehold (cropping and grazing land); perpetual/pastoral lease land; council land; regional reserves; national, conservation and marine parks; Aboriginal land; Commonwealth land etc.

**SECTION G - OPERATOR CAPABILITY**

Provide information demonstrating that the tenement holder and operator (where applicable) has the capability to conduct the program in a manner that consistently ensures ongoing achievement of the environmental outcomes. This may be demonstrated within the PEPR by providing an overview of the following:

- Manuals or standard operating procedures that outline the safe and environmentally sound operation of all critical operations associated with the exploration program that ensure compliance with the PEPR.
- Systems in place to monitor, audit and assess compliance against the criteria approved in the PEPR.
- Systems in place to identify and report any noncompliance with regulatory requirements or relevant environmental outcomes (e.g. measures in place to report incidents in accordance with regulation 79(3)).
- Practices and procedures in place to provide appropriate communication of regulatory requirements to employees and contractors (e.g. induction programs).
- Practices and procedures in place to respond to, and communicate with landowners and external parties on the proposed program and compliance matters (e.g. complaints)

The company has been managing drilling programs across Australia for 8 years, therefore has in place procedures and systems for completing RC drilling related activities and managing drill contractors. Systems to ensure safe operations of staff and contractors include standard operating procedures, daily pre-start meetings, weekly safety meetings, weekly rig inspections, incident reporting, inductions for people new to site, etc. The company expects to use a high quality drill contractor, experienced in RC drilling, with their own safety management system and procedures.

All information and project specific processes from this EPEPR will be communicated to staff and contractors through an induction before work commences. On-site supervisors will ensure compliance with the EPEPR and report an issues or incidents to their manager.

The company will regularly be in contact with the landowner and manager throughout the planned activities, and during rehabilitation. The company has a community engagement log to record any complaints or other stakeholder issues. The company will continue stakeholder engagement with neighbouring landholders and the wider community.

**SECTION H –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.

Not Applicable

**SECTION I – PHOTOS**

Include photographs in this section:

- that have been obtained during site visits
- that help describe relevant environmental and operational aspects in the PEPR.

*To insert photos, copy and paste the photo into the template below. Resize photos to fit page width. Ensure that all information about each photo is completed and refer to the photo number in the relevant section of the PEPR.*

Site identification	Date taken	Photo number & PEPR section reference	Easting (GDA94)	Northing (GDA94)	Zone	Details and Comments
	6/10/2024	Photo 1 - Section C	231740	6035710	54	Sandy loam soil over saprock in creek bank, typical within the project area.



Exploration PEPR application – 12-month period

Site identification	Date taken	Photo number & PEPR section reference	Easting (GDA94)	Northing (GDA94)	Zone	Details and Comments
	1/10/2024	Photo 2 – Section C	229570	6036380	54	Undulating grassed paddocks, native vegetation in valleys, cleared pasture paddock, and limited float rock typical of project area



Site identification	Date taken	Photo number & PEPR section reference	Easting (GDA94)	Northing (GDA94)	Zone	Details and Comments
	1/10/2024	Photo 3 – Section D	230250	6035740	54	Cleared grass paddock with flat terrain, example of suitable site for drilling.

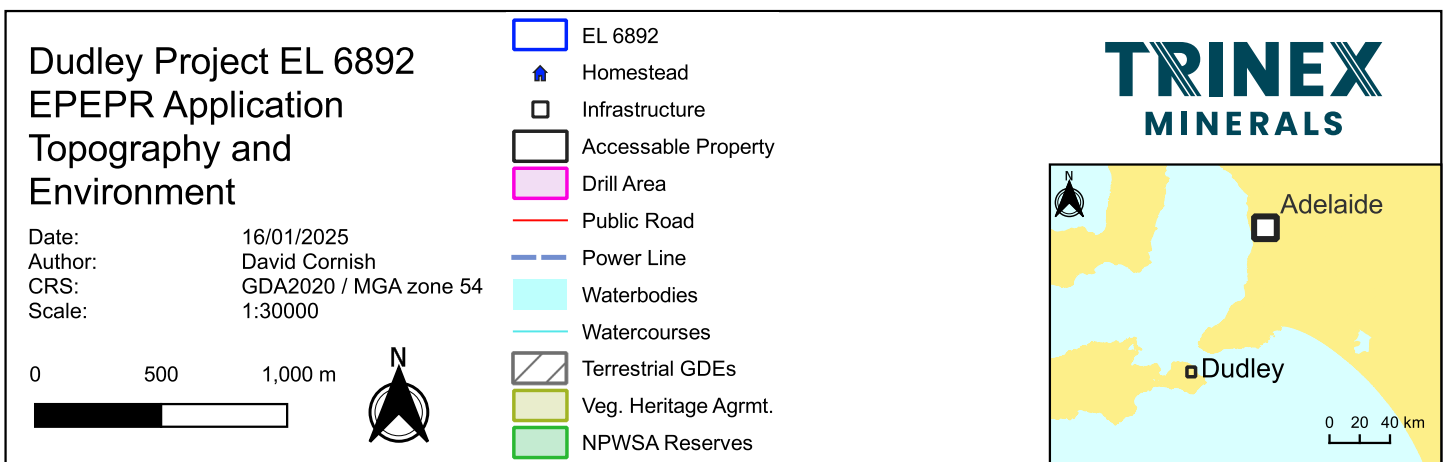
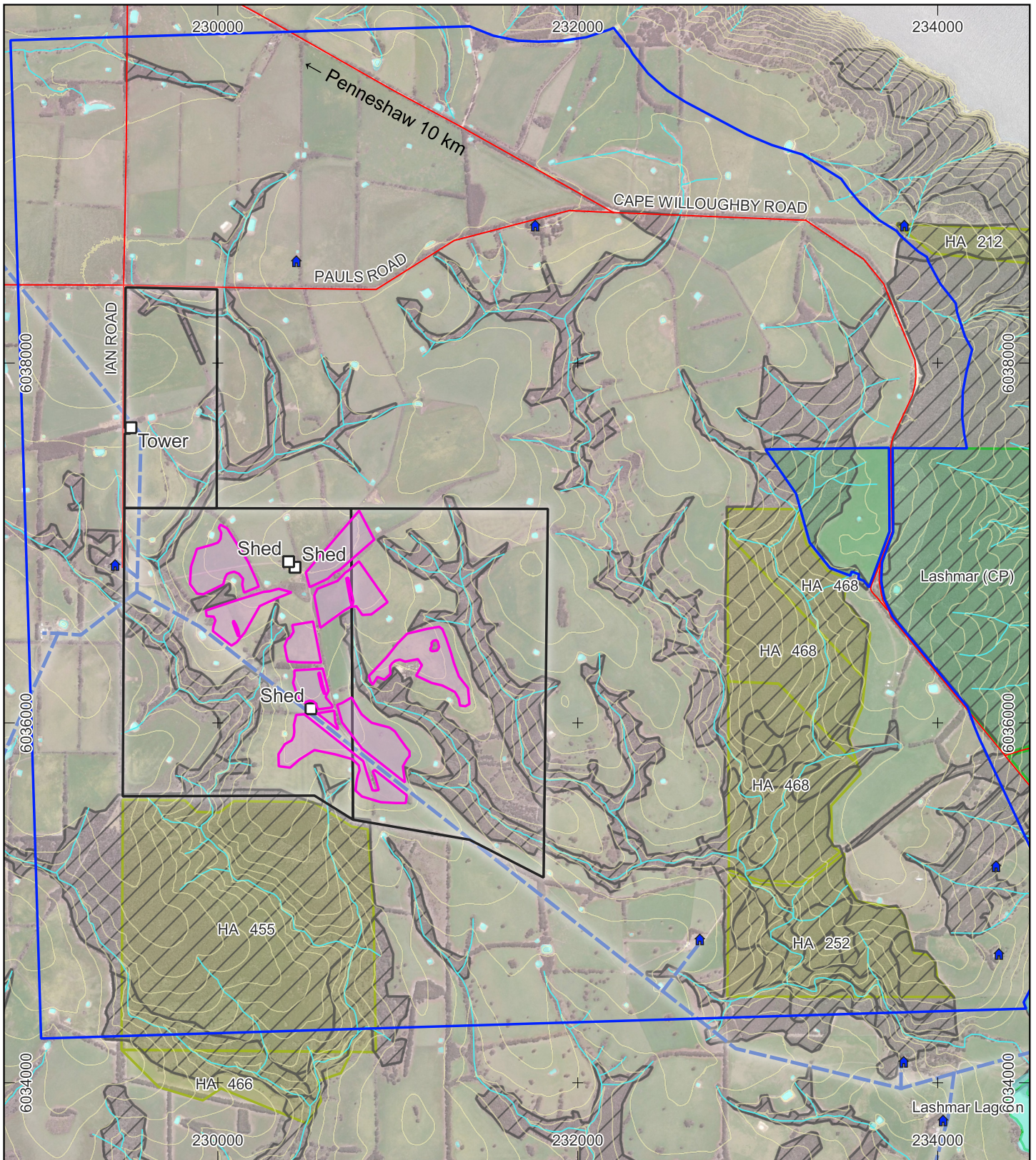


## SECTION J – MAPS

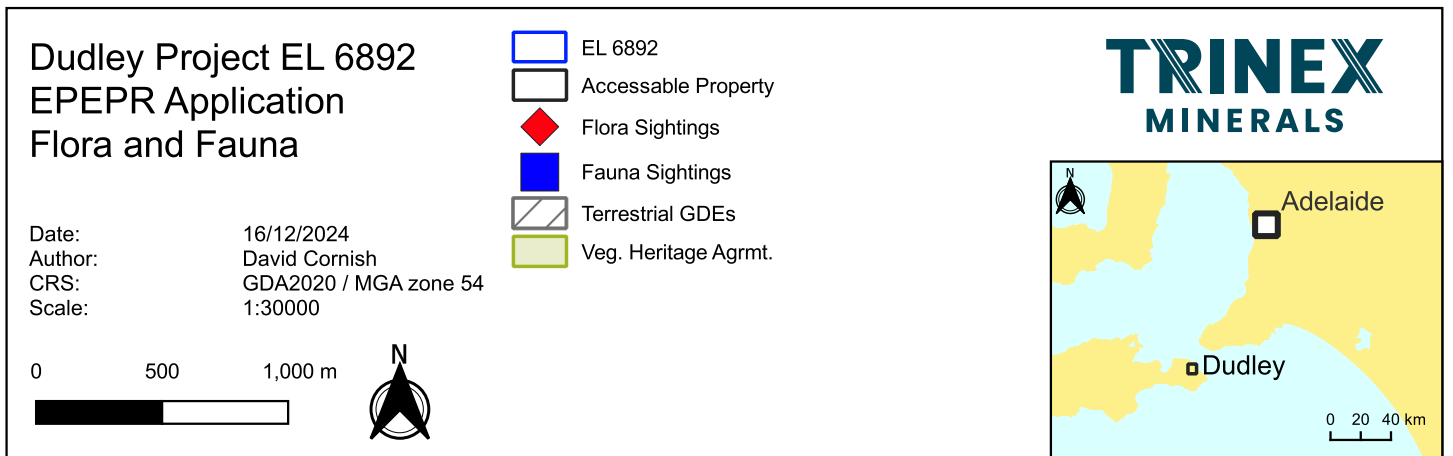
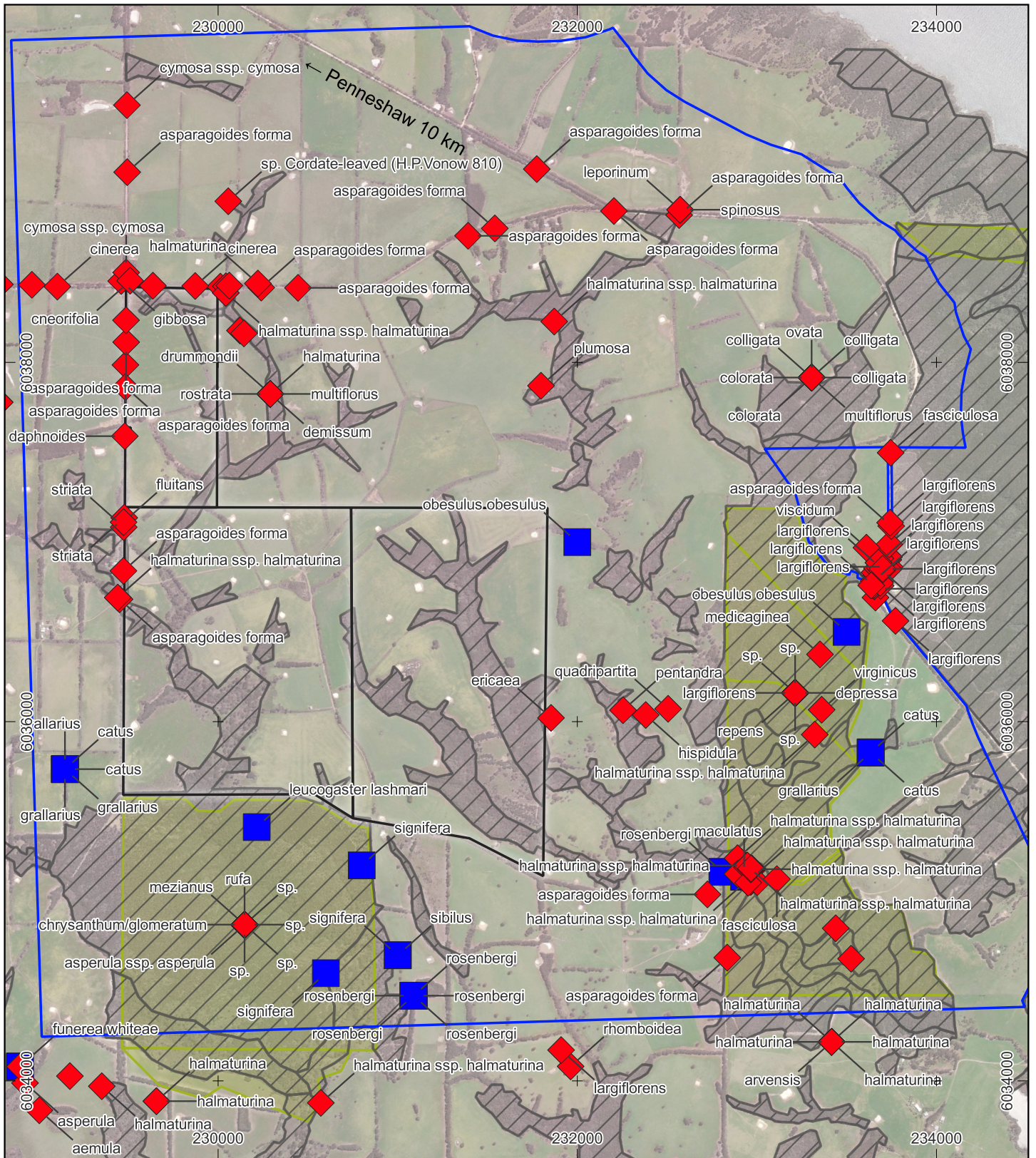
Provide a map(s) showing the following information that is located adjacent to or within the proposed area of operations, where applicable:

- tenement boundaries,
- cadastral information,
- existing surface contours,
- existing vegetation,
- location of the proposed exploration operations (includes drillholes, existing and new access tracks, drill traverses, campsites, laydown areas and other applicable information) and/or the target exploration area(s),
- location of existing ephemeral and permanent rivers, creeks, swamps, streams or watercourses and water management structures,
- location of towns, houses and homesteads, existing roads, rails, fences, transmission lines, buildings, dams and pipelines
- known sightings of listed species,
- location and extent of all environmentally sensitive areas,
- any relevant land use types (e.g. parks and reserves, Aboriginal freehold land, Woomera Prohibited Area).

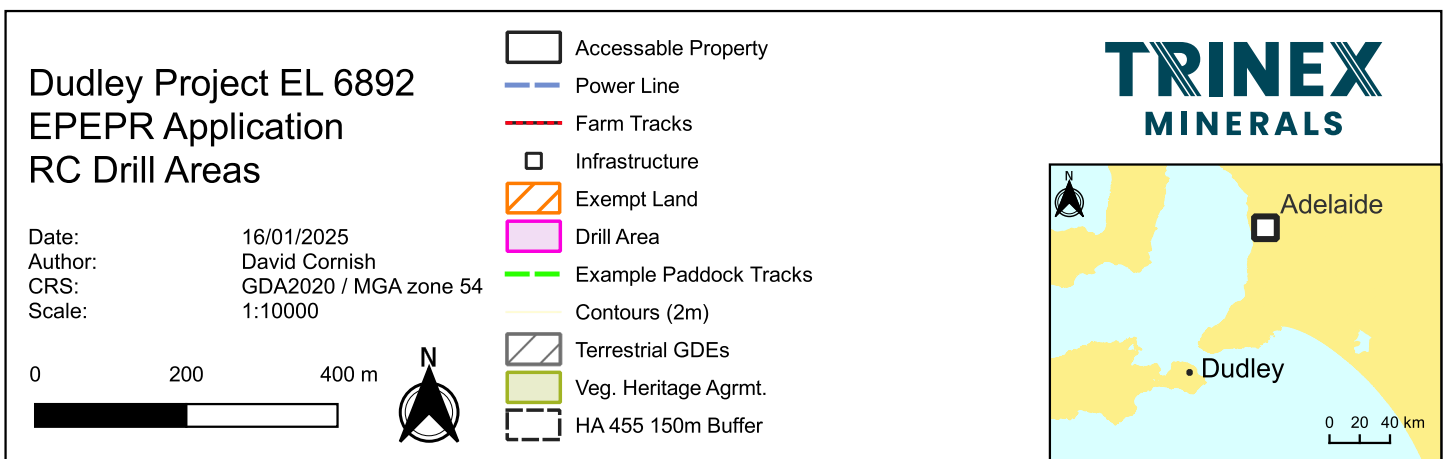
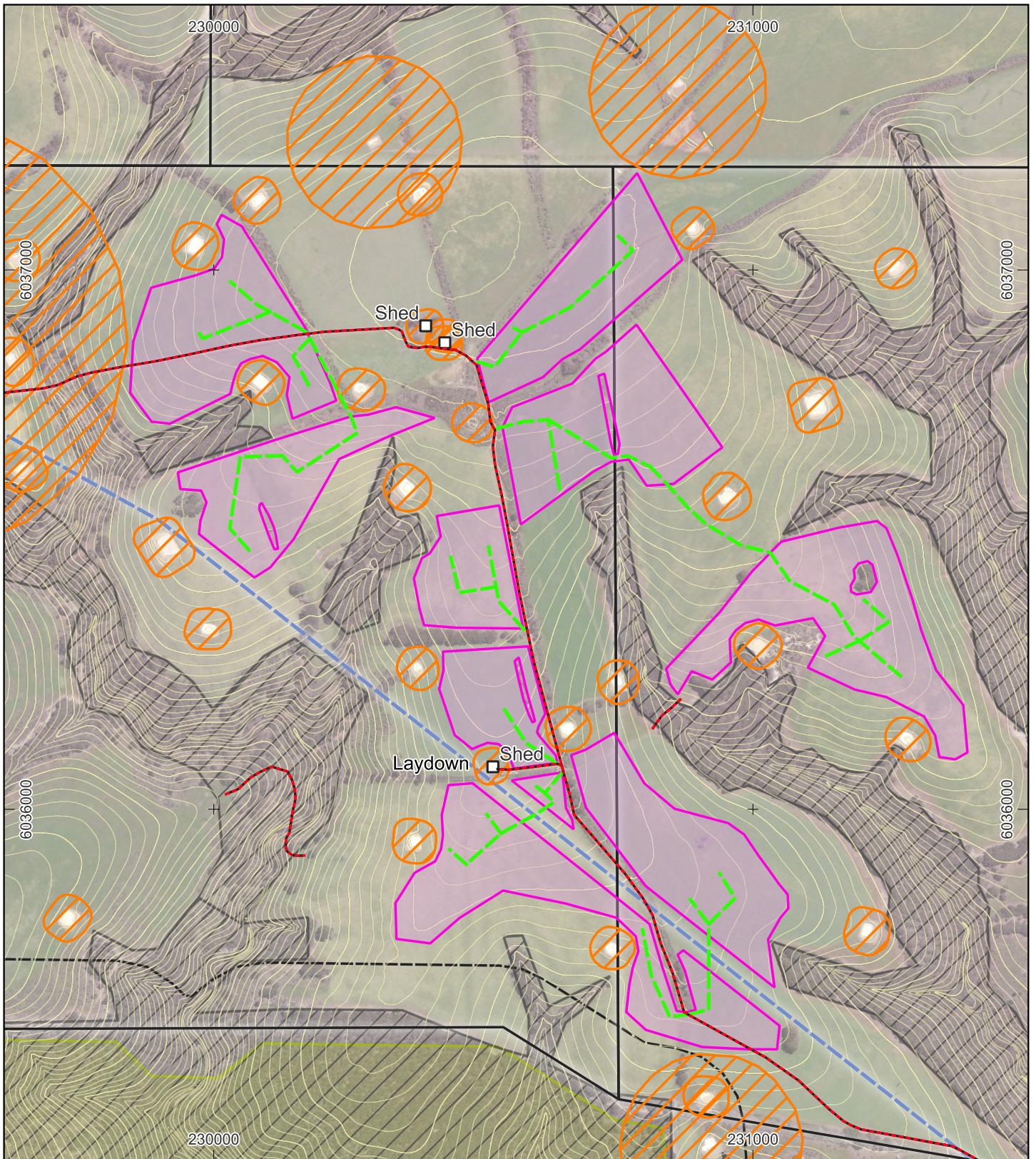
All maps and sections must conform to the standards outlined in the Exploration PEPR Terms of Reference.



**Figure 1** – topography and environment map showing native heritage agreements, reserves, terrestrial GDEs, watercourses, and infrastructure for the entire exploration licence.



**Figure 2 – fauna and flora map with sightings/recordings local to the exploration licence extracted from NatureMaps**



**Figure 3 – RC drill areas map showing polygons of where the 30 drill holes would be located, with approximate access tracks through cleared paddocks. Drill areas are planned to allow drilling of targets identified from mapping and soil sampling, on areas of flat topography, avoiding any native vegetation and exempt land.**

## SECTION K – PUBLIC RELEASE

PEPR documents will be registered on the mining register and publicly released in full without the need to request consent from the tenement holder(s). Ultimately, it is the applicant's responsibility to ensure that confidential, or commercially sensitive, information is not included within the PEPR application.

## SECTION L – SUBMISSION OF THE APPLICATION

An application for an Exploration PEPR or PEPR review, must be submitted in the following form, unless otherwise specified by the Director of Mines or an authorised officer:

- an electronic version of the PEPR must be submitted using the exploration PEPR template(s) provided on the DEM Minerals website,
- the electronic version must be submitted online through the DEM Minerals website using the exploration PEPR submission form,
- the electronic version must be submitted in one single Acrobat PDF file, and
- Microsoft Word-compatible files must be submitted if requested by the Director of Mines (or delegate), or other authorised officers.