



Amended Works Approval

Works approval number	W6072/2017/1
Works approval holder	Thunderbird Operations Pty Ltd
ACN	611 351 743
Registered business address	Level 2, 41 – 47 Colin Street WEST PERTH WA 6005
DWER file number	DER2017/001012
Duration	07/09/2017 to 22/08/2024
Date of amendment	08/05/2020
Premises details	Thunderbird Mineral Sands Project – Preliminary works Great Northern Hwy WATERBANK WA 6725 Legal description – Mining tenement M04/459

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed production capacity
Category 8: Mineral sands mining or processing: premises on which mineral sands ore is mined, screened, separated or otherwise processed.	150,000 tonnes of ore (total)

This amended works approval is granted to the works approval holder, subject to the attached conditions, on 8 May 2020, by:

Tim Gentle
MANAGER, RESOURCE INDUSTRIES
REGULATORY SERVICES

an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

Works approval history

Date	Reference number	Summary of changes
07/09/2017	W6072/2017/1	Works approval granted for preliminary works
24/08/2018	W6088/2017/1	Works approval granted for Stage 1A infrastructure relating to mining and processing
08/10/2019	W6088/2017/1	Amendment Notice 1 – addition of Stage 1B infrastructure relating to tailings disposal
06/03/2020	W6088/2017/1	Amendment to reflect changes to project design, including removal of ilmenite processing circuit
08/05/2020	W6072/2017/1	Amendment to extend duration (this amendment)

Interpretation

In this works approval:

- (a) the words 'including', 'includes' and 'include' in conditions mean 'including but not limited to', and similar, as appropriate;
- (b) where any word or phrase is given a defined meaning, any other part of speech or other grammatical form of that word or phrase has a corresponding meaning;
- (c) where tables are used in a condition, each row in a table constitutes a separate condition;
- (d) any reference to an Australian or other standard, guideline or code of practice in this works approval means the version of the standard, guideline or code of practice in force at the time of granting of this works approval and includes any amendments to the standard, guideline or code of practice which may occur from time to time during the course of the works approval;
- (e) unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act; and
- (f) unless specified otherwise, all definitions are in accordance with the EP Act.

NOTE: This works approval requires specific conditions to be met but does not provide any implied authorisation for other emissions, discharges, or activities not specified in this works approval.

Works approval conditions

The works approval holder must ensure that the following conditions are complied with:

Infrastructure and equipment

1. The works approval holder must install and undertake the works for the infrastructure and equipment specified in Table 1, to the requirements listed in that table.
2. The works approval holder must not depart from the requirements specified in Table 1 except:
 - (a) where such departure does not increase risks to public health, public amenity or the environment; and
 - (b) all other conditions in this works approval are still satisfied.
3. Subject to condition 1, within 21 days of the completion of the works specified in Table 1, the works approval holder must submit to the CEO a brief report with photographs, confirming whether or not each item of infrastructure or component of infrastructure specified in Table 1 has been mobilised with material defects and to the requirements specified in that table.

4. Where a departure from the requirements specified in Table 1 occurs and is of a type allowed by condition 2, the works approval holder must provide to the CEO a description of, and explanation for, the departure along with the report required by condition 3.

Table 1: Infrastructure and equipment requirements table

Infrastructure	Requirements (design and construction)
Dry crushing and screening plant consisting of the following: <ol style="list-style-type: none"> (a) portable grizzly screen; and (b) mobile screening plant. 	Spray/sprinkler systems must be installed for dust suppression

Record-keeping

5. The works approval holder must maintain accurate and auditable books including information, reports and data required by this works approval, and the books must:
 - (a) be legible;
 - (b) if amended, be amended in such a way that the original version(s) and any subsequent amendments remain legible and are capable of retrieval;
 - (c) be retained by the works approval holder for the duration of the works approval; and
 - (d) be available to be produced to an inspector or the CEO as required.

Definitions

In this works approval, the terms in Table 2 have the meanings defined.

Table 2: Definitions

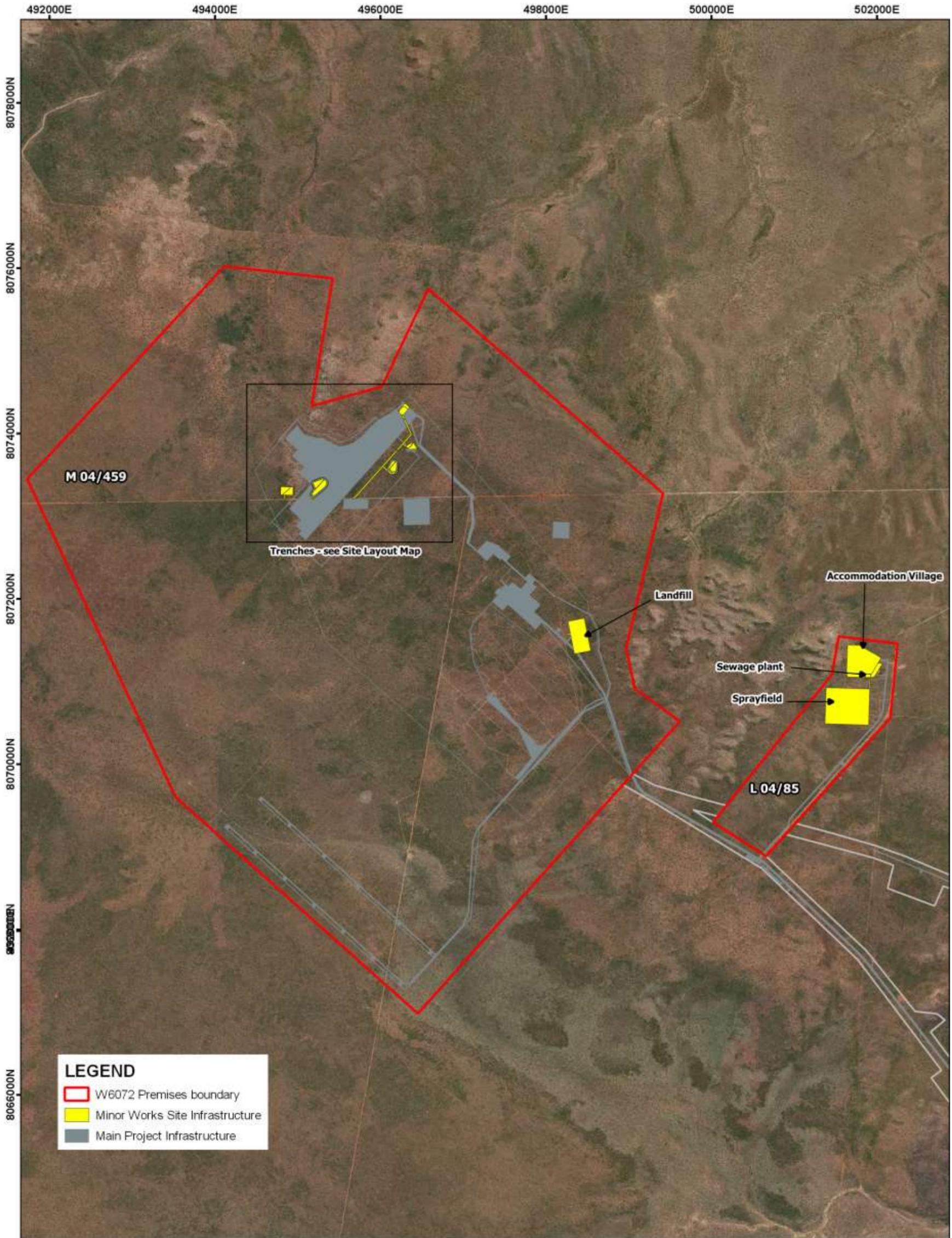
Term	Definition
books	has the same meaning given to that term under the EP Act
CEO	means Chief Executive Officer of the Department CEO for the purposes of notification means: Director General Department Administering the <i>Environmental Protection Act 1986</i> Locked Bag 10 JOONDALUP DC WA 6919 info@dwer.wa.gov.au
condition	means a condition to which this works approval is subject under s.62 of the EP Act
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994</i> and designated as responsible for the administration of Part V, Division 3 of the EP Act
discharge	has the same meaning given to that term under the EP Act
emission	has the same meaning given to that term under the EP Act
environmental compliance report	means a report to satisfy the CEO that works have been constructed in accordance with the works approval
EP Act	means the <i>Environmental Protection Act 1986 (WA)</i>
EP Regulations	means the <i>Environmental Protection Regulations 1987 (WA)</i>
Premises	the premises to which this works approval applies, as specified at the front of this works approval and as shown on the map in Schedule 2 to this works approval
prescribed premises	has the same meaning given to that term under the EP Act
works approval	refers to this document, which evidences the grant of the works approval by the CEO under s.54 of the EP Act, subject to the conditions
works approval holder	refers to the occupier of the Premises being the person to whom this works approval has been granted, as specified at the front of this works approval

END OF CONDITIONS

Schedule 1: Maps

Premises map

The boundary of the prescribed premises is shown in the map below (red line).



LEGEND

- W6072 Premises boundary
- Minor Works Site Infrastructure
- Main Project Infrastructure

Scale 1:42000
 0 750 1500 2250 3000 m

UNIVERSAL TRANSVERSE MERCATOR PROJECTION
 HORIZONTAL DATUM: GEOCENTRIC DATUM OF AUSTRALIA 1994
 Grid lines indicate 1 500 metre interval of the Map Grid Australia Zone 50

The Map Grid Australia (MGA) is based on the Geocentric Datum of Australia 1994 (GDA 1994)
 GDA94 positions are compatible within one metre of the datum WGS84 positions

GDA

PREMISES MAP - PRELIMINARY WORKS
THUNDERBIRD MINERAL SANDS MINE

 Government of Western Australia
 Department of Water and Environmental Regulation

The Department of Water and Environmental Regulation does not guarantee that this map is without flaw of any kind and disclaims all liability for any error, loss or other consequence which may arise from relying on any information depicted.

Site layout map

The infrastructure and equipment are set out on the Premises in accordance with the site layout map below.

