



SOUTHERN OPERATIONS

**Native Vegetation Clearing Permit
Annual Compliance Report**

CPS 8046: 1 July 2022 – 30 June 2023

Wonnerup North, Western Australia

5 July 2023

**Tronox Mining Australia Limited
Cable Sands (W.A.) Pty Ltd**

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TABLE OF CONTENTS

| | |
|--------------------------------------|----------|
| 1 INTRODUCTION | 1 |
| 1.1 Scope and Purpose | 1 |
| 1.2 Permit Details | 1 |
| 1.3 Clearing Details | 1 |
| 1.4 Project status | 1 |
| 2 CPS 8046/2 COMPLIANCE | 2 |
| 2.1 CONDITION 1 | 2 |
| 2.2 CONDITION 2 | 2 |
| 2.3 CONDITION 3 | 2 |
| 2.4 CONDITION 4 | 2 |
| 2.5 CONDITION 5 | 2 |
| 2.6 CONDITION 6 | 3 |
| 2.7 CONDITION 7 | 3 |
| 2.8 CONDITION 8 | 3 |
| 2.9 CONDITION 9 | 4 |
| 2.10 CONDITION 10 | 4 |
| 2.11 CONDITION 11 | 5 |
| 2.12 CONDITION 12 | 5 |
| 2.13 CONDITION SUMMARY | 6 |

LIST OF FIGURES

Figure 1 – Clearing to date

LIST OF ATTACHMENTS

Attachment 1 – Fauna Pre-clearance reports

Attachment 2 – Conservation Covenant

1 INTRODUCTION

1.1 SCOPE AND PURPOSE

This report documents the status of Tronox Mining Australia's (Tronox) compliance, against the direct requirements of the native vegetation clearing permit CPS 8046/2, issued under Part V of the Environmental Protection Act 1986. This report covers the reporting period 1 July 2022 to 30 June 2023.

1.2 PERMIT DETAILS

The proponent is Tronox Mining Australia Ltd. The Clearing Permit details are summarised below. The permit was granted in September 2019.

The permit was amended in May 2022 to include an additional 0.26 hectares of clearing on M70/360. All other parts of the permit remain unchanged. The additional 0.26 ha of clearing had previously been approved under CPS 7605, which expired in August 2021.

Table 1 Permit Details

| Permit Number | Permit Holder | Land on Which Clearing is to be Done | Duration | Area |
|------------------------|---------------------------------|--------------------------------------|-------------------------|----------|
| 8046/1 (superceded) | Tronox Mining Australia Limited | Mining leases: M70/360 and M70/569 | 28/09/2019 – 27/09/2034 | 38.9 ha |
| 8046/2 | Tronox Mining Australia Limited | Mining leases: M70/360 and M70/569 | 28/09/2019 – 27/09/2034 | 39.16 ha |

1.3 CLEARING DETAILS

A total of 7.58 ha of native vegetation (trees) have been cleared at the site to date. Clearing undertaken is summarized in Table 2. Most of the clearing has been scattered paddock trees with no understorey due to historical grazing.

Table 2 Clearing Summary

| Clearing Date | Mining Lease | Purpose | Vegetation Type | Area (ha) | Cumulative Area (ha) |
|---------------|--------------|----------------------------------|-------------------------------|-----------|----------------------|
| March 2021 | M70/569 | Mine Path | Scattered paddock trees | 0.6 | 0.6 |
| February 2022 | M70/360 | Mine Access Road, river crossing | Scattered riparian trees | 0.5 | 1.1 |
| March 2022 | M70/360 | Mine Path | Scattered paddock trees | 0.65 | 1.75 |
| April 2022 | M70/360 | Mine Path | Remnant trees, no understorey | 1.52 | 3.27 |
| Jan 2023 | M70/360 | Mine Path | Remnant trees, no understorey | 4.31 | 7.58 |

1.4 PROJECT STATUS

The project site is an active mine with the pit progressing to the north side of the Abba River in 2023.

Active mining commenced on 3 April 2021.

2 CPS 8046/2 COMPLIANCE

CPS 8046/2 lists 12 conditions for the approval. This section of the report details the activities undertaken by the permit holder under this permit.

2.1 CONDITION 1

Statement

Clearing is permitted to be undertaken on M70/360 and M70/569.

Compliance

All proposed clearing is located within these two leases.

7.58 ha of clearing has been undertaken to date on M70/569 and M70/360.

2.2 CONDITION 2

Statement

Clearing is for the purposes of mineral sands mining and associated infrastructure.

Compliance

All clearing undertaken to date is for this purpose.

2.3 CONDITION 3

Statement

The Permit Holder must not clear more than 39.16 hectares of native vegetation within the areas cross-hatched yellow in Figure 1 of schedule 1.

Compliance

7.58 ha of clearing has been undertaken to date within this area.

2.4 CONDITION 4

Statement

The Permit Holder shall not clear any native vegetation after 6 September 2024.

Compliance

Not applicable in 2022/3. Mine planning and scheduling will take the date into consideration. An extension may be sought to 2026 during 2023.

2.5 CONDITION 5

Statement

The Permit Holder shall not clear native vegetation unless the purpose for which the clearing is authorized in enacted within 3 months of the authorised clearing being undertaken.

Compliance

The clearing is scheduled into annual campaigns, directly related to the Mine Plan. The first campaign was run on 9th and 10th March 2021. The 2022 campaign was run over 6 days throughout March and April 2022. The 2023 campaign was carried from 5th to 30th January 2023.

2.6 CONDITION 6

Statement

In determining the amount of native vegetation to be cleared authorised under this Permit, the Permit Holder must have regard to the following principles, set out in order of preference:

- (a) avoid the clearing of native vegetation;*
- (b) minimise the amount of native vegetation to be cleared; and*
- (c) reduce the impact of clearing on any environmental value.*

Compliance

Tronox Mining has an internal vegetation clearing permitting procedure implemented by the site's environment team. When considering a new vegetation clearing campaign the environmental officer considers opportunities to avoid vegetation, minimizing the area proposed to be cleared and placing conditions on the permit to manage potential environmental impacts. In addition, mine planning and scheduling take the date into consideration vegetation clearing that could potentially be delayed.

2.7 CONDITION 7

Statement

When undertaking any clearing or other activity authorized under this Permit, the Permit Holder must take the following steps to minimize the risk of the introduction and spread of weeds and dieback:

- (i) Clean earth-moving machinery of soil and vegetation prior to entering and leaving the area to be cleared;*
- (ii) Ensure that no dieback or weed-affected soil, mulch, fill or other material is brought into the area to be cleared; and*
- (iii) Restrict the movement of machines and other vehicles to the limits of the areas to be cleared.*

Compliance

All machinery was inspected as clean prior to commencing work onsite.

No outside soil, mulch, fill or other material was brought into the area cleared.

Machinery used for clearing was limited to the areas of clearing of native vegetation.

2.8 CONDITION 8

Statement

The Permit Holder must implement and adhere to the document "Threatened Fauna Environmental Management Plan, Wonnerup North Project" (Revision 2a, April 2019), as retained on Department of Mines, Industry Regulation and Safety File No. A0742/201801 as Doc ID 6776885, or future versions as approved by the CEO.

Compliance

The requirements outlined in the document "Threatened Fauna Environmental Management Plan, Wonnerup North Project" (Revision 2a, April 2019), have been complied with during the reporting period.

During the 2022/23 clearing program, daily pre-clearing fauna inspections were undertaken by a zoologist prior to clearing commencing in accordance with Sections 4 and 5 of the Fauna Management Plan. The

qualified zoologist remained onsite supervising the clearing each day.

During the 2022/23 clearing campaign five (5) Common Brushtail Possum (CBP) were captured and relocated. The zoological reports included in Attachment 1.

2.9 CONDITION 9

Statement

No later than 6 August 2026, the Permit Holder shall implement and adhere to the following revegetation commitments:

- (a) commence revegetating and rehabilitating the areas cross-hatched red in Figure 1 by:
 - (i) undertaking an extensive weed control programme;*
 - (ii) deliberately revegetating native vegetation that will provide suitable habitat for western ringtail possum (*Pseudocheirus occidentalis*) and black cockatoos; and*
 - (iii) ensuring only local provenance seeds and propagating material are used to revegetate and rehabilitate the area.**
- (b) establishing at least five 20 x 20 metre quadrat and five 20 metre transect monitoring sites within the rehabilitated areas;*
- (c) fencing the rehabilitated areas to adequately exclude livestock;*
- (d) achieve the following completion criteria after the five-year monitoring period for the areas revegetated and rehabilitated under this Permit (listed).*

Compliance

Stock exclusion fencing has been installed for approximately half the area and site preparation has commenced for the revegetation activities .

2.10 CONDITION 10

Statement

No later than September 2032, the Permit Holder shall:

- (a) give a conservation covenant under section 30B of the Soil and Land Conservation Act 1945 setting aside the areas cross-hatched red on attached Plan 8046/1 for the protection and management of vegetation in perpetuity; and*
- (b) provide to the CEO a copy of the executed conservation covenant.*

Compliance

The application for Conservation Covenant was lodged in March 2021 and was finalised in December 2021. The covenant is now registered with Landgate. A copy of the covenant is provided in Attachment 2.

The land under covenant was originally owned by Cable Sands (WA) Pty Ltd. The land is now owned by Rival Pty Ltd. Accordingly, the covenant is in the name of the current owner.

2.11 CONDITION 11

Statement

The permit holder must maintain the following records of activities done pursuant to this Permit:

| No | Relevant matter | Specifications |
|----|--|--|
| 1 | In relation to the authorized clearing activities generally | <ul style="list-style-type: none"> a) The location where clearing occurred, recorded using a GPS unit set to GDA94, expressing the geographical co-ordinates in Eastings and Northings or decimal degrees; b) The date the area was cleared; c) The size of the area cleared (in hectares); d) actions taken to avoid, minimise and reduce the impacts and extent of clearing in accordance with Condition 6; e) actions taken to minimise the introduction and spread of dieback and weeds in accordance with Condition 7; f) activities in relation to Condition 8 |
| 2. | In relation to the revegetation of areas pursuant to Condition 9 | <ul style="list-style-type: none"> a) a description of the revegetation and rehabilitation activities undertaken. b) the size of the area revegetated and rehabilitated (in hectares); and c) the date that the area was revegetated and rehabilitated; |
| 3. | In relation to the Conservation Covenant | <ul style="list-style-type: none"> a) actions taken in accordance with Condition 10 of this Permit |

Compliance

The data outlined in Condition 11 (1) for the January 2023 clearing campaign of 4.31 ha has been collected. The spatial data is stored in the GIS Database and the map has been included in Figure 1. The consultant's fauna report is provided in Attachment 1. The data for 2021 and 2022 clearing has also been collected and is included in Figure 1.

2.12 CONDITION 12

Statement

- (a) The Permit Holder shall provide a report to the CEO by 31 July each year for the life of this permit, demonstrating adherence to all conditions of this permit, and setting out the records required under Condition 11 of this permit in relation to clearing carried out between 1 July and 30 June of the previous financial year.
- (b) If no clearing authorised under this Permit was undertaken between 1 July and 30 June of the previous financial year, a written report confirming that no clearing under this permit has been carried out, must be provided to the CEO by 31 July of each year.
- (c) Prior to 27 September 2034, the Permit Holder must provide to the CEO a written report of records required under Condition 12 of this Permit where these records have not already been provided under Condition 12(a) or 12(b) of this Permit.

Compliance

This report has been developed to satisfy Condition 12 in July 2023.

2.13 CONDITION SUMMARY

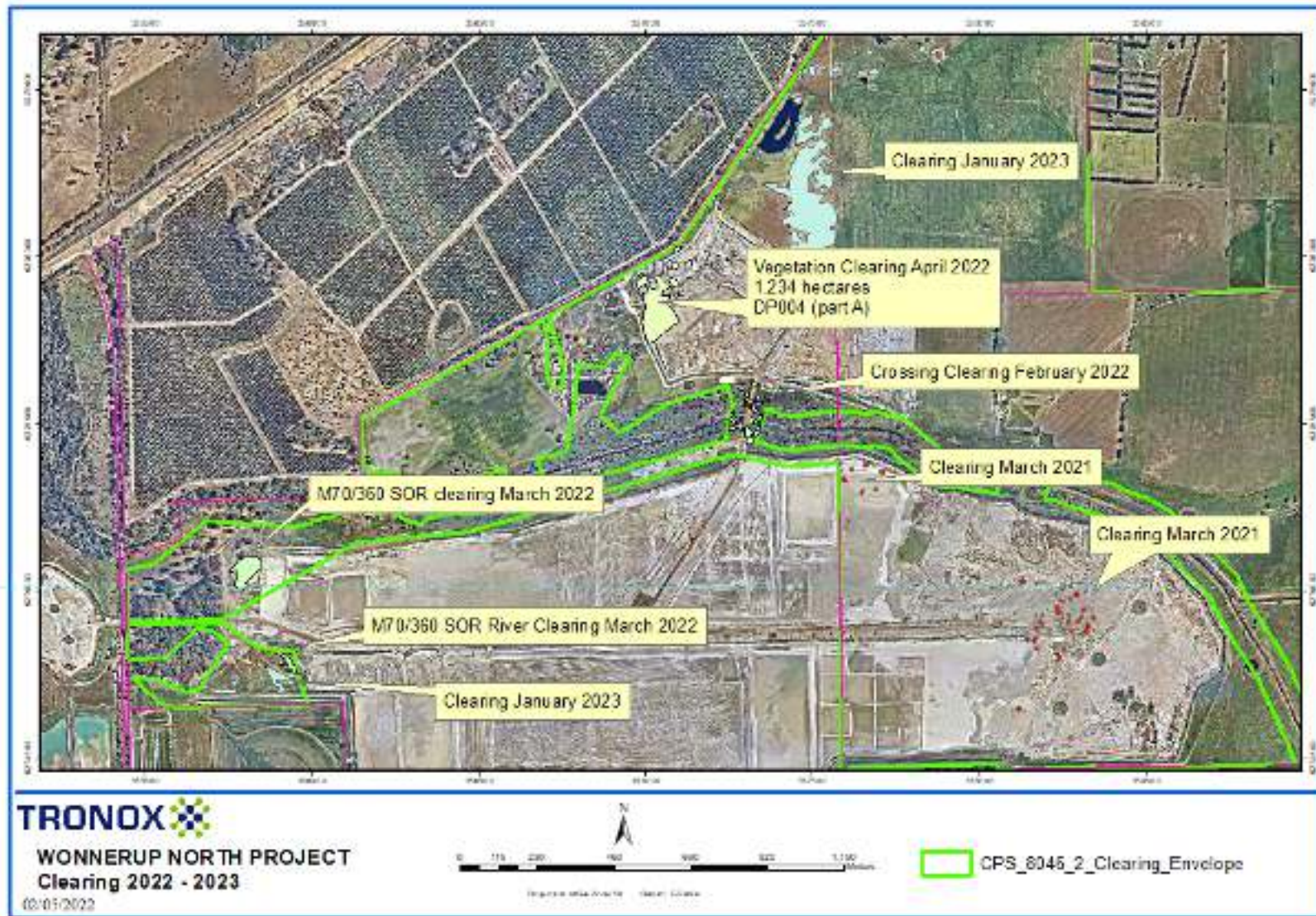
A summary of all the conditions outlined under CPS 8046/2 is provided below.

Table 3 Conditions Summary

| Condition | Topic | Assessment | Status |
|-----------|-------------------------------------|--|---|
| 1 | Land on which clearing can be done | Clearing to date has been restricted to M70/569 and M70/360 | Commenced on 9 th March 2021 |
| 2 | Purpose of clearing | Clearing to date has been for mining associated infrastructure | Commenced on 9 th March 2021 |
| 3 | Area of clearing | 7.58 ha of native vegetation has been cleared | Commenced on 9 th March 2021 |
| 4 | Timing, no clearing after 2024 | Not applicable in 2022 reporting year. | Ongoing |
| 5 | Staged Clearing | The clearing is scheduled into annual campaigns, directly related to the Mine Plan. | Ongoing |
| 6 | Clearing Avoidance and Minimisation | Internal clearing permitting procedure | Ongoing |
| 7 | Weed Control and Dieback Management | Contractor instructions | Ongoing |
| 8 | Fauna Management | A pre-clearing fauna inspection are undertaken daily for the area scheduled for clearing. | Ongoing |
| 9 | Offset Rehabilitation | Fencing and site preparation has commenced. | Commenced |
| 10 | Offset Conservation Covenant | Conservation Covenant finalized December 2021. Lodged with Landgate. | Ongoing |
| 11 | Record keeping | Commenced | Ongoing |
| 12 | Annual Reporting | First report July 2020 Second report July 2021 Third report July 2022 Fourth report July 2023 | Ongoing |

FIGURES

Figure 1 2022-2023 Clearing Areas



Attachment 1: Fauna Pre-Clearance Reports 2023

6 March 2023

Ryan Munro
Senior Environmental Advisor
AUS – Wonnerup | Southwest Operations
Tronox
Ryan.Munro@tronox.com

CC:
DBCA Wildlife Licensing Section wildlifelicensing@dbca.wa.gov.au
DBCA Fauna Section fauna.data@dbca.wa.gov.au
DBCA Landuse Section swlanduseplanning@dbca.wa.gov.au
Wildlife Officer SW WildlifeOfficerSW@dbca.wa.gov.au

Dear Ryan,

RE: (SW387) Wonnerup North mine site, off Ruabon Road and Wonnerup South Road, Ruabon: Fauna preclearance results

I am pleased to provide you with the results of the fauna preclearance surveys carried out on 5th, 6th, 11th, 12th, 13th, and 30th January 2023 at the locations above.

A total of 13 Common Brushtail Possums (*Trichosurus vulpecula*) (BTP) were encountered during the clearing south of Ruabon Road. No animals were found at the Wonnerup South Road site. Some animals were recounts (same animal different days where it was left in situ). No Western Ringtail Possums (*Pseudocheirus occidentalis*) were seen. No animals were killed or injured, and confidence is relatively high that no fauna or habitat features were missed. A summary of the results is provided below:

- 5/05/2022 NIL Return
- 6/01/2023 Return
- 10 -13/01/2023 Return
- 30/01/2023 NIL Return

If you have any enquiries regarding these results, please contact me on 0437 700 917.

Yours sincerely,

Shane Priddle,

A handwritten signature in black ink, appearing to read 'Shane Priddle', written in a cursive style.

Principal Consultant
SW Environmental
M +61 (0)437 700 917
shane@swenvironmental.com.au

ATTACHMENTS

Attachment 1 Background, methods and results

Attachment 2 Approximate clearing locations

ATTACHMENT 1

Background

Fauna preclearance surveys were required for native vegetation within a broader envelope of approximately 13.8 ha. within the Tronox mine site, south of Ruabon Road and east of Wonnerup South Road, for further expansion of the existing mine (see Attachment 2). The actual canopy area was significantly less than that and consisted of paddock trees or patches of mostly Jarrah (*Eucalyptus marginata*) and Marri (*Corymbia calophylla*).

The vegetation was identified as having potential to provide habitat for several threatened fauna, in particular:

- Baudins cockatoo (*Calyptorhynchus baudinii*)
- Carnaby's cockatoo (*Calyptorhynchus latirostris*)
- Forest Red-tailed Black Cockatoo (*Calyptorhynchus banksii naso*)
- Brush-tailed phascogale (*Phascogale tapoatafa*)
- Western Ringtail Possum (WRP) (*Pseudocheirus occidentalis*)

A licensed fauna spotter was required to be on site prior to and during clearing to manage any fauna that may occur.

Methods

SW Environmental (Shane Priddle) undertook the fauna preclearance surveys on 5th, 6th, 11th, 12th, 13th, and 30th January 2023 under SW Environmental's Regulation 28 Fauna Taking (Relocation) License (FR28000016) of the WA *Wildlife Conservation Regulations 1970* and Section 40 (TFA 2020-0013) of the WA *Biodiversity Conservation Act 2016*.

A 'toolbox talk' was carried out prior to clearing to communicate expectations and requirements in relation to fauna management. Specifically, this included a brief discussion on

- The purpose of the fauna spotter, proposed scope along with contact details,
- The location of habitat features (dreys/hollows) at the site,
- The requirement to stop work and relocate any fauna should they be spotted, and
- The need to maintain close communication during clearing.

Clearing was carried out by excavator. Prior to clearing trees were inspected for hollows from the ground using binoculars. Once on the ground all hollows checked to ensure they were empty.

Results

During the clearing operations, eight BTP were left in situ (in hollows or trees), and five BTP were captured and relocated to vegetation within Tronox land north of the clearing (Table 1). All animals were found within the Ruabon Road site, and no animals observed at the site off Wonnerup South Road. Given the animals were found on different days, some animals would have been the same ones found previously. No nesting black cockatoos, WRP or Phascogale were found.

Previous surveys of the clearing patch by SW Environmental in 2020, identified eight BTP and no WRP or Phascogale. It is likely that with the recounts of animals and the diminishing habitat within the patch during the clearing campaign, that some BTP left in situ would have moved offsite on their own accord.

Table 1 Clearing results

| Eastings | Northing | Date | Common name | Number | Action |
|----------|----------|------------|-------------------------|--------|--------------------|
| 357521 | 6276066 | 5/01/2023 | Common Brushtail Possum | 2 | Direct observation |
| 357472 | 6276169 | 6/01/2023 | Common Brushtail Possum | 1 | Direct observation |
| 357471 | 6276214 | 11/01/2023 | Common Brushtail Possum | 2 | Direct observation |
| 357541 | 6276236 | 11/01/2023 | Common Brushtail Possum | 1 | Direct observation |

| Easting | Northing | Date | Common name | Number | Action |
|----------------|-----------------|-------------|-------------------------|---------------|--|
| 357488 | 6276276 | 11/01/2023 | Common Brushtail Possum | 1 | Hand capture and released adjacent to capture site |
| 357504 | 6276406 | 12/01/2023 | Common Brushtail Possum | 1 | Direct observation |
| 357490 | 6276390 | 12/01/2023 | Common Brushtail Possum | 1 | Direct observation |
| 357475 | 6276388 | 12/01/2023 | Common Brushtail Possum | 1 | Hand capture and released adjacent to capture site |
| 357466 | 6276414 | 12/01/2023 | Common Brushtail Possum | 1 | Hand capture and released adjacent to capture site |
| 357471 | 6276214 | 13/01/2023 | Common Brushtail Possum | 2 | Hand capture and released adjacent to capture site |

ATTACHMENT 2



FAUNA PRECLEARANCE RESULTS

WONNERUP NORTH MINE SITE,
OFF RUABON ROAD, RUABON

Ref: SW429_new
Date: 22/02/2023 Author: SP

- Release point
- Capture point
- Left in situ and/or captured later
- Road
- Approximate clearing extent



A3 @ 1:4000
0 25 50 100 m
GRID: GDA zone 50



Source: Base map © Esri and its data suppliers. SLIP Landgate (2021)



FAUNA PRECLEARANCE RESULTS

**WONNERUP NORTH MINE SITE,
OFF WONNERUP SOUTH ROAD**

Ref: SW429_new
Date: 22/02/2023 Author: SP

- Road
- Approximate clearing extent



A3 @ 1:4000

0 25 50 100 m

GRID: GDA zone 50



Source: Base map © Esri and its data suppliers. SLIP Landgate (2021)

Attachment 2: Conservation Covenant



Department of
**Primary Industries and
Regional Development**

Our Ref: 214116
Enquiries: Jodie Ferdinando
Telephone: 9368 2382
Date: 9 June 2022

Attn: Toni Munrow
Tronox
PO Box 305
Kwinana WA 6966

Dear Toni

The following Memorial has been lodged at Landgate.

Land: Lot 850 on Deposited Plan 134119 Certificate of Title Volume 2733 Folio 882 and,
Lot 1124 on Deposited Plan 81921 Certificate of Title Volume 2733 Folio 883

Memorial Number: P015828

Memorial Type: Conservation Covenant

Please find enclosed a copy of original signed documents for your records.

Please do not hesitate to contact me if you have any queries.

Yours Sincerely

Jodie Ferdinando
Project Officer,
Office of the Commissioner
of Soil and Land Conservation

CONSERVATION COVENANT

SOIL AND LAND CONSERVATION ACT
SECTION 30B

File: 214116

The registered proprietor, **RIVAL PTY LTD** of that land described as **Lot 850 on Deposited Plan 134119** Certificate of Title Volume 2733 Folio 882 and **Lot 1124 on Deposited Plan 81921** Certificate of Title Volume 2733 Folio 883, recognises the value of sound land management practices and the value of protecting areas within the land described on this plan.

The registered proprietor of the land agrees that an irrevocable instrument known as a Conservation Covenant be entered into in respect of that area of land contained within; Certificate of Title Volume 2733 Folio 882 and Certificate of Title Volume 2733 Folio 883, for the purpose of setting aside land for the protection and management of vegetation under Section 30B of the *Soil and Land Conservation Act 1945*. Accordingly:

We: **RIVAL PTY LTD**
(Proprietor of the Land)


Of: **90 Queen Street**
BUSSELTON WA 6280
(Normal Postal Address)

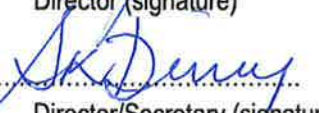
Covenant to retain and protect 11ha of native vegetation in perpetuity, as shown on this plan as an area cross hatched orange contained within Certificate of Title Volume 2733 Folio 882 and Certificate of Title Volume 2733 Folio 883, as defined as **A, B, C, D and E** on Deposited Plan 421239 in accordance with the following conditions:

- The area of land described above is to be adequately fenced to exclude all classes of livestock and be managed in such a way as to retain and promote the growth of native vegetation.
- Subject to sections 30B and 30C of the *Soil and Land Conservation Act 1945*, this Conservation Covenant is to have effect in perpetuity.
- A Conservation Covenant registered on Certificate of Title by Memorial binds each person successively becoming an owner or occupier of the land.
- Subject to any necessary approvals from relevant authorities, and in accordance with any written law, clearing is permitted within the areas described above for boundary fence lines and firebreaks and adherence to the fire management plan.
- As per Condition 11 of Department of Water and Environmental Regulation clearing permit number CPS 8046/1.
- Area subject to rehabilitation program to re-establish native vegetation in the area.

REGISTERED PROPRIETOR:

Signed by Rival Pty Ltd in accordance with section 127(1) of the *Corporations Act 2001* on 30.12.2021






 Director (signature) ROSS DENNY
 Full Name of Director


 Director/Secretary (signature) SUSAN DENNY
 Full Name of Director/Secretary

Cecilia McConnell
COMMISSIONER OF SOIL AND LAND CONSERVATION

DATE: 17.1.2022



| | | |
|---|---|--|
|  | Road | NOTE: 1. ALL MEASUREMENTS AND AREAS ARE ONLY APPROXIMATE AND SUBJECT TO ON-SITE ASSESSMENT BY A LAND CONSERVATION OFFICER FROM THE DEPARTMENT OF PRIMARY INDUSTRIES AND REGIONAL DEVELOPMENT (DPIRD). 2. LANDGATE CADASTRAL PARCELS AS AT MAY2021 3. IMAGERY - DIGITALGLOBE VIVID 2.0 03/05/2019 4. PROJECTION - TRANSVERSE MERCATOR DATUM - GEOCENTRIC DATUM OF AUSTRALIA 1984 GRID - MAP GRID OF AUSTRALIA 1994 ZONE 50 |
|  | Waterway | |
|  | Cadastral parcel boundary | |
|  | Area to be retained and protected as native vegetation - Total = 10.76 ha | |
| DRAWN BY: P. Goulding | | DATE: 17/12/2021 |
| CHECKED BY: | | DATE: |