


Annual Compliance Report

03 February 2024 to 02 February 2025 EPBC 2016/7797
Ormeau Quarry Expansion, 12 km north-west of Oxenford,
Queensland
Prepared for Boral Resources (QLD) Pty Ltd

30th April 2025

Job No. 10233 E

In making this declaration, I am aware that sections 490 and 491 of the *Environment Protection and Biodiversity Conservation Act 1999* (Cth) (EPBC Act) make it an offence in certain circumstances to knowingly provide false or misleading information or documents. The offence is punishable on conviction by imprisonment or a fine, or both. I declare that all the information and documentation supporting this compliance report is true and correct in every particular. I am authorised to bind the approval holder to this declaration and that I have no knowledge of that authorisation being revoked at the time of making this declaration.

Signed	
	
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Document Control

Document: EPBC Annual Compliance Report (Year 4), prepared by Saunders Havill Group for Boral Resources Pty Limited, dated 30th April 2025.

Document Issue

Issue	Date	Prepared By	Checked By
A	30/04/2025	KR	MM

Prepared by

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Acronyms and Abbreviations

ACR	Annual Compliance Report
DAWE	Department of Agriculture, Water and Environment (Cth) – former
DOR	Department of Resources (Qld)
DCCEEW	Department of Climate Change, Energy, the Environment and Water (Cth)
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i> (Cth)
GCCC	Gold Coast City Council
ha	hectares
KCH	Koala critical habitat
km	kilometres
m	metres
MNES	Matters of National Environmental Significance
NCA	<i>Nature Conservation Act 1992</i> (Qld)
PMAV	Property Map of Assessable Vegetation
PMR	Protected Matters Report
RE	Regional Ecosystem
SHG	Saunders Havill Group
TEC	Threatened Ecological Community (under the EPBC Act)
VMA	<i>Vegetation Management Act 1999</i> (Qld)

Management Plans

VDEC	Offset Area Voluntary Declaration Package (Year 1 ACR – Appendix C)
BMP	Bushfire Management Plan, prepared by Land and Environment Consultants (Year 1 ACR – Appendix H)
EMP	Environmental Management Plan, prepared by Saunders Havill Group, dated November, 2018 (Year 1 ACR – Appendix D)
KHMP	Koala Habitat Management Plan, prepared by Saunders Havill Group, dated September 2021 (Year 1 ACR – Appendix F).
KMP	Koala Management Plan, prepared by Saunders Havill Group, dated December 2021.
OMP	Offset Management Plan (EPBC 2016/7797), prepared by Saunders Havill Group, dated December 2018 (Year 1 ACR – Appendix D).
VPMP	Vertebrate Pest Management Plan, prepared by Saunders Havill Group, dated September 2021 (Year 1 ACR – Appendix G).
WMP	Weed Management Plan, prepared by Saunders Havill Group, dated July 2021 (Year 1 ACR – Appendix E).

1. Introduction

This Annual Compliance Report (ACR) Year 4 (3 February 2024 – 2 February 2025) has been prepared on behalf of Boral Resources (Qld) Pty Ltd (the Proponent) as per the EPBC Act approval transfer granted on 16 February 2018 for the Ormeau Quarry Expansion (the Project) located on Upper Ormeau Road, Kingsholme, Queensland (EPBC 2016/7797).

In accordance with the approval granted on the 16 February 2018 under the *Environmental Protection and Biodiversity Act 1999* (EPBC Act), this ACR has been prepared in response to Condition 10 of the approval which states:

“Within three months of every 12 month anniversary of the commencement of the action, the person taking the action must publish a report on its website addressing compliance with each of the conditions of this approval, including implementation of any management plans as specified in the conditions. Documentary evidence providing proof of the date of publication and non-compliance with any of the conditions of this approval must be provided to the Department at the same time as the compliance report is published.”

1.1. Reporting Period

This ACR details the status and compliance of the Project for the 12-month reporting period between the 3 February 2024 and 2 February 2025.

As per Condition 10 of the approval, the ACR must be published on the Proponent’s website and notification provided to the Department of Climate Change, Energy, the Environment and Water (DCCEEW) within 3 months of the 12-month anniversary of the commencement of the action (3 February 2021). The end of the three-month period for the Year 4 reporting period is the 3 May 2024.

1.2. EPBC Approval

Boral Resources (Qld) Pty Ltd, as the Proponent of the Project (EPBC Act Referral 2016/7797) was issued with an approval by the former Department of the Environment and Energy (now DCCEEW) on the 16 February 2018, subject to conditions.

Key details related to the EPBC 2016/7797 approval, including variation conditions, are provided in **Table 1** below. Refer to **Appendix A** for EPBC approval.

Table 1: Approval Details

Commonwealth Reference	EPBC 2016/7797
Approval Holder	Boral Resources (Qld) Pty Ltd
ACN	009 671 809
Project Name on the Approval	Ormeau Quarry Expansion, 12km north-west of Oxenford, Queensland.
Approved Action	Thirty-eight hectare (38 ha) expansion of the existing Ormeau Quarry, including clearing of 38 ha of vegetation. The quarry expansion site is located on Upper Ormeau Road, 12 km north west of Oxenford; as described

in the referral received by the Department on 13 October 2016 [See EPBC Act referral 2016/7797].

Controlling Provision(s)	Listed threatened species and communities (sections 18 & 18A)
Approval Date	16 February 2018
Expiry Date of the Approval	8 November 2057
Date of Commencement of the Action	3 February 2021
Address	578 Upper Ormeau Road, Kingsholme, Queensland, 4208
Local Government Area	Gold Coast City Council

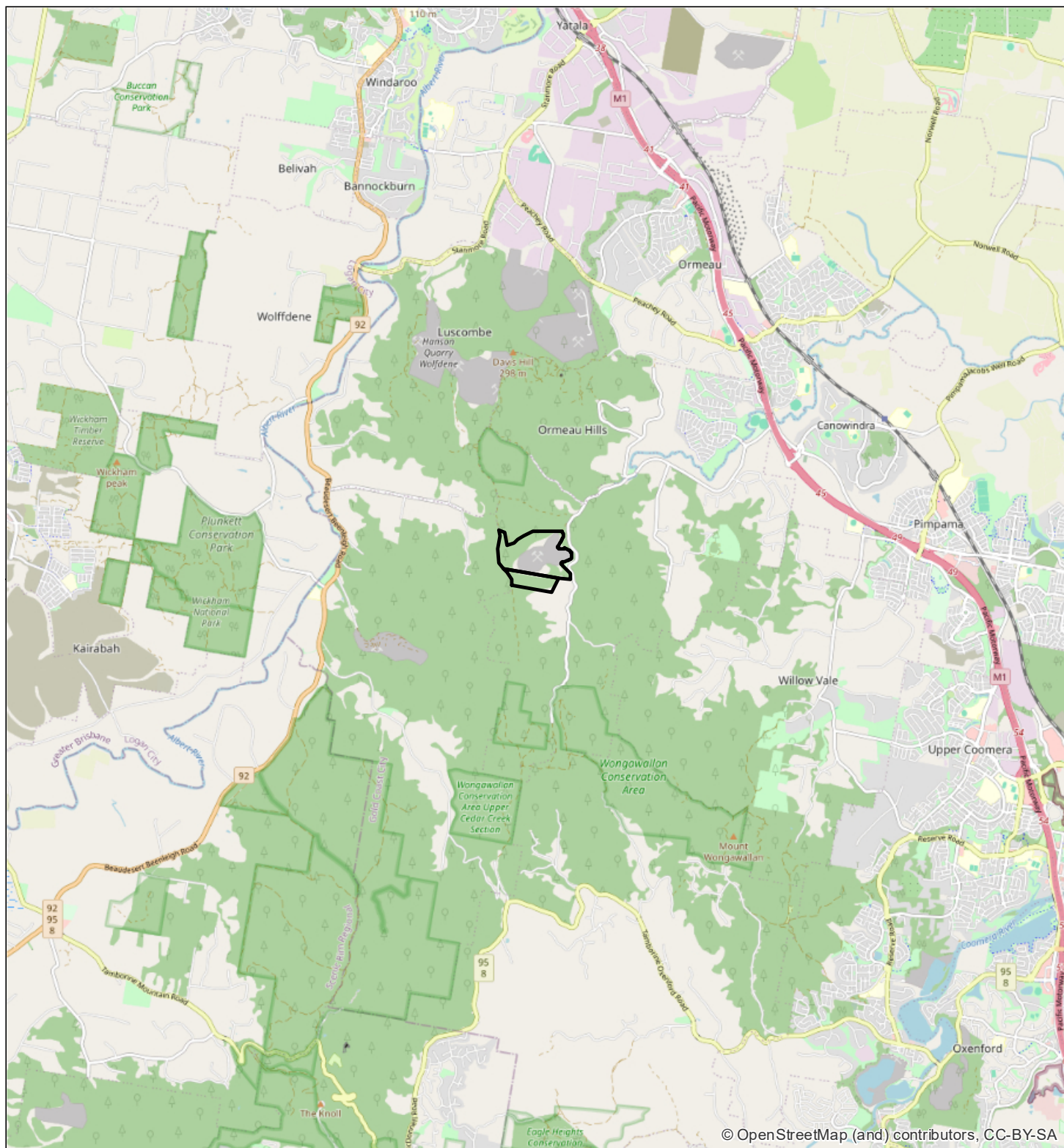
1.3. Site Context

Contextually, the Project is located in south-east Queensland, approximately 12 km north-west of Oxenford within the Gold Coast City Council Local Government Area. The Project area is surrounded by a matrix of rural and rural residential allotments, remnant vegetation and other quarries in the greater landscape. Refer to **Figure 1** for the Site Context and **Figure 2** for Site Aerial.

1.4. Overview of Key Activities and Achievements

During Year 4 of the Project, the following development and environmental management activities occurred:

- Clearing of 2.28 ha Koala critical habitat (KCH) within impact area.
- Continued use of the Bushfire Management Plan, Weed Management Plan, Koala Habitat (Rehabilitation) Management Plan and Vertebrate Pest Management Plan for the offset site.
- Habitat quality monitoring surveys within offset area utilising the Modified Habitat Quality Assessment (MHQA) methodology to ascertain habitat quality of vegetation compared to baseline conditions.
- Weed mapping targeting Weeds of National Significant (WONS), conducted by SHG across offset area.
- Bushcare Services completed treatment of WONS where accessible at the offset site.
- Non-native vertebrate pest monitoring services were carried out within the offset area by Biodiversity Australia and Saunders Havill Group (SHG). Monitoring surveys involved the use of passive infrared monitoring cameras in accordance with the Vertebrate Pest Management Plan (VPMP)
 - Biodiversity Australia conducted monitoring during summer season February 2024 and January 2025. Both *Canis familiaris* (Domestic / Feral Dog) and *Vulpes vulpes* (European red fox) non-native pest species recorded.
 - SHG conducted monitoring during winter/spring season from August to September 2024. *Vulpes vulpes* (European red fox) was the only non-native pest species recorded.
- Fireland completed an inspection of all fire lines. The reconstruction of all fire lines was also contracted and commenced in October 2024 however, complaints from neighbouring land to Gold Coast City Council and other regulators enforced a temporary stoppage of fire line work. Following this, wet weather prevented additional work on reconstructing fire lines until after the ACR period. The previous year's burn plan, developed by specialist bushfire management consultants, in accordance with the Bushfire Management Plan, was reassessed and determined to be applicable to the current ACR year.



Legend

 Project Site

Figure 1

Project Site Context

File ref. 10233 E Figure 1 YR4 Project Site Context A

Date 11/04/2025

Project Upper Ormeau Road, Ormeau

0 1 2 3 4 km

Scale (A4): 1:100,000 [GDA 1994 MGA Z56]



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Legend

-  Project Site
-  Project Area
-  Qld DCDB

Figure 2
Project Site Aerial

File ref. 10233 E Figure 2 YR4 Project Site Aerial A
Date 11/04/2025
Project Upper Ormeau Road, Ormeau

0 50 100 150 200 m

Scale (A4): 1:7,500 [GDA 1994 MGA Z56]



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2. Current Status of the Project

2.1. Offset Area Legally Secured

As required by Condition 5 of the EPBC Act approval, the offset area, which is located over parts of Lot 2 on RP15912 Cliff Barrons Road, Kingsholme, was legally secured via a Voluntary Declaration under the VMA by the Proponent on 22 February 2019 (refer **Year 1 ACR – Appendix C**). The Chief Executive of the then Queensland Department of Natural Resources, Mines and Energy (now Department of Resources, DOR) declared the offset area in a Declared Area Map (DAM 2018/007110) as an area of high nature conservation value in accordance with section 19F(1) of the VMA. The offset area is shown as Category A on a Property Map of Assessable Vegetation (PMAV) (PMAV 2018/007111) and is subject to management provisions of the Offset Management Plan (OMP) EPBC 2016/7797, prepared by Saunders Havill Group, December 2018. Evidence of compliance with Condition 5 was provided to DCCEE and was addressed in the Year 1 ACR (refer **Year 1 ACR – Appendix C**).

2.2. Vegetation Clearing

Clearing commenced on 3 February 2021, and written evidence was provided to the Department (refer **Appendix D**). During Year 4, 2.28 ha of Koala habitat was cleared, resulting in a total 15.56 ha of Koala habitat being cleared during the life of the project. Refer **Plan 1** for clearing extent.

2.3. Key Consultants and Roles

Table 2 below is a list of the key appointed contractors and their roles in the Project during Year 4.

Table 2: Key Consultants and Roles

Role	Appointed Contractor
Proponent / Project Coordinator	Boral – Kelli Adair
Environmental Coordinator	Boral – Matthew Allan
Site Supervisor / Quarry Manager	Boral – Bruce Barry
Environmental Consultant	Saunders Havill Group
Bush Regeneration Contractor	Bushcare Services
Bushfire Management Contractor	Fireland
Pest Management Contractor	Biodiversity Australia

2.4. Offset Area Monitoring

Monitoring activities were completed across the offset area in accordance with the management actions outlined in the OMP, offset management zones shown on **Plan 2** and associated management plans. SHG completed on-ground surveys on the 27 August, 9– 13 and the 16 September 2024 (refer **Plan 3**).

2.4.1 Habitat quality surveys – SHG

SHG ecologists completed monitoring across the offset area including habitat quality assessment surveys at established assessment locations utilising the MHQA methodology. Refer to **Plan 3** for the location of MHQA transects and survey area completed by SHG during Year 4.

2.4.2 Camera trapping and observed fauna – SHG

SHG ecologists completed general meander surveys and motion sensor camera trapping during the Year 4 monitoring period. These surveys were conducted within the offset area to identify koala and non-native vertebrate pest presence.

Plan 3 displays the camera trap locations during the Year 4 monitoring period. The fauna equipment was deployed on the 27 August 2024 and collected on the 16 September 2025, resulting in an active period of 20 nights. A total of twelve (12) fauna species were recorded as a result of on-ground field surveys and camera trapping (refer **Table 3**, **Photo set 1** and **Appendix B** for camera trap images).

Camera traps also recorded unauthorised access of the offset area in the form of recreational motorbikes (refer to **Appendix B**).

Table 3: Observed fauna and camera trapping results – SHG surveys August/September 2024

Scientific Name	Common Name	Native/Introduced	Survey Method*
Birds			
<i>Alectura lathami</i>	Australian Brush Turkey	Native	CT
<i>Chalcophaps longirostris</i>	Emerald Dove	Native	CT
<i>Leucosarcia melanoleuca</i>	Wonga Pigeon	Native	CT
Mammals			
<i>Macropus rufogriseus</i>	Red-necked Wallaby	Native	CT
<i>Perameles nasuta</i>	Long-nosed Bandicoot	Native	CT
<i>Phascolarctos cinereus</i>	Koala	Native	CT
<i>Rattus fuscipes</i>	Bush Rat	Native	CT
<i>Trichosurus vulpecula</i>	Brush-tailed Possum	Native	CT
<i>Vulpes vulpes</i>	European Red Fox	Introduced	CT & S
<i>Wallabia bicolor</i>	Swamp Wallaby	Native	CT
Monotreme			
<i>Tachyglossus aculeatus</i>	Short-beaked Echidna	Native	CT
Reptile			
<i>Varanus varius</i>	Lace Monitor	Native	CT
*CT = camera trapping, S = direct sighting			



Photo set 1: Koala captured on camera traps within the offset site.

2.4.3 Weed mapping – SHG

SHG ecologists spatially recorded areas within the offset area containing WONS, specifically targeting *Lantana camara* (Lantana). Refer to **Plan 4** for the Year 4 weed mapping results. As shown on the specified plan, WONS are present in varying density levels across the site (refer **Photo set 2**).



Photo set 2: Dense *Lantana camara* patches within offset site.

2.4.4 Non-native vertebrate pest monitoring

Targeted vertebrate pest monitoring was conducted at permanent monitoring locations across the offset site as part of the annual monitoring (refer **Section 2.4.2**). Two (2) targeted non-native vertebrate pest monitoring surveys were undertaken by Biodiversity Australia during Year 4 as part of the requirements under the Vertebrate Pest species Management Plan (refer **Year 1 ACR**). During the Year 4 monitoring period, as described further in **section 2.5.6**, ongoing access issues associated with weather conditions has restricted access for the pest management team. These weather events have resulted in a restricted number of monitoring stations (5) being established, being predominantly located outside of the offset area within neighbouring land (south-east). Future pest monitoring events have been requested during

September/October in the dry season. This is expected to be a permanent timing adjustment for surveys in order to remove the ongoing access issues during recent, unexpectedly extended wet seasons.

The required camera monitoring programs were completed over a period of 14 consecutive days, the February 2024 period beginning 15th February 2024 and ending 28th February 2024 and the January 2025 period beginning 10th January 2025 (refer **Appendix C** for Monitoring Reports).

During the latest monitoring period, *Vulpes vulpes* (European red fox) and *Canis familiaris* (Domestic / Feral Dog) non-native vertebrate pests were recorded. In addition, the native *Macropus rufogriseus* (red-necked wallaby) and *Alectura lathami* (Australian Brush Turkey) were detected several times across multiple camera locations.

2.5. Offset Area Management

Management activities have been conducted across the site in accordance with the management actions outlined in the Offset Management Plan (OMP) during the Year 4 compliance period. Weed management, bushfire management, access tracks and vertebrate pest species management were conducted across the site. The following Sections, along with **Table 5**, detail the management actions conducted during Year 4.

2.5.1 Weeds of National Significance (WONS) treatment

As per the OMP requirements a Weed Management Plan (WMP) was produced by SHG in 2021. The WMP details the baseline surveys of weed cover and weed species detected within the offset area along with management actions, timeframes, and monitoring techniques (refer **Year 1 ACR**).

SHG ecologists mapped the extent of WONS across the offset area during the 2024/2025 compliance period. WONS identified and mapped were predominantly *Lantana camara* (Lantana) (refer **Plan 4**).

Bushcare services continued the treatment of WONS across the site during the current compliance period. Actions were focused on the southern portion of the site where Bushcare services deemed were safely accessible. Accessibility issues continued for Year 4, due to heavy rainfall impacting the construction of the culvert on several separate occasions (refer to **Section 4.1** for further details). Treatment methods completed in areas that could be safely accessed included chemical treatment (cut and paint) and manual removal. Weed treatment areas are demonstrated on **Plan 5**.

Daily record sheets completed by the weed management contractor are provided at **Appendix D**.

2.5.2 Rehabilitation and Regeneration

Baseline mapping of the offset site was conducted in order to identify areas of potential rehabilitation and regeneration area as well as a plan specifying techniques and species to be planted.

Rehabilitation across the offset site is predominantly driven by associated weed management, with assisted regeneration utilised in more open areas, following intense weed treatment, which is to be supported by safe access for efficient management and to ensure high survival rates of any planted specimens.

2.5.3 Vertebrate Pest Species Management

A Vertebrate Pest Management Plan (VPMP) was completed by SHG in 2021 to provide specifications and guidance for the on-ground Pest Management Strategies across the site to achieve objectives under the approval. The overarching completion criteria for pest management onsite is that *dogs or evidence of dogs is not detected on the offset area for a period of three years*, as detailed within the approved Offset Management Plan and the Vertebrate Pest Management Plan.

Vertebrate pest monitoring was conducted on two separate occasions across the offset site within the Year 4 period (February 2024 and January 2025). The aim of this monitoring is to identify any feral or domestic dogs and/or evidence of dogs. During the February 2024 monitoring period two (2) *Vulpes vulpes* (European Red Fox) sightings were recorded. During the January 2025 monitoring period six (6) *Vulpes vulpes* (European Red Fox) sightings and three (3) *Canis familiaris* (Domestic / Feral Dog) sightings were recorded.

Objectives under the Vertebrate Pest Management Plan include:

- *Numbers of feral dogs will be reduced through monitoring and management; and*
- *Annual pest monitoring by a suitably qualified pest management contractor, with evidence of pest animals GPS recorded. Where there is evidence of pest animals, targeted trapping and baiting programs will be implemented by an independent, suitably qualified pest management contractor. Where annual monitoring does not identify any feral or pest species monitoring it will reduce to 2 yearly.*

Continued monitoring efforts generally in accordance with the VPMP during Year 4 (outside of the current reporting period) were completed, although altered due to access limitations.

As such, it is considered that the pest management activities completed during this ACR year achieve compliance under Condition 6.

2.5.4 Koala Habitat Quality

The Koala Habitat Management Plan (KHMP) developed by SHG for the offset area details strategies that will be implemented to achieve koala habitat rehabilitation aims detailed in the OMP, under Management Action 5. The management zones detailed in **Plan 2** display the management actions and techniques to be utilised within each zone. Management of WONs as detailed in **Section 2.5.1** was not able to be completed across the entirety of the offset site due to ongoing access issues. Further, rehabilitation works including proposed planting could also not be completed due to access issues.

SHG ecologists conducted annual habitat quality monitoring of koala habitat utilising the MHQA methodology at six permanent transect locations across the offset site during the Year 4 compliance period (refer **Plan 3**).

Habitat quality scores remained relatively steady between Year 1, Year 2, Year 3 and Year 4 with only minor variation.

Koala scats were recorded during SAT surveys within the current ACR year at three (3) of the transect locations, demonstrating Koalas continue to use the offset site.

2.5.5 Bushfire Management

A Burn Plan was developed by Fireland, and deemed to remain applicable to the site conditions, in accordance with the requirements under the Bushfire Management Plan for the site, under the OMP Management Action 6. The BMP details management measures that will be implemented across the site to reduce risk of bushfire, with an annual Burn Plan forming a component of these management measures.

The Burn Plan incorporates a burn map, complexity ratings, pre-burn works order, a risk assessment and contingency maps. On-ground fire management of the offset has not commenced at present due to the weather conditions not being suitable to complete the prescribed Bushfire Management, as determined by the bushfire specialists. To reduce potential risks to areas outside the proposed burn area, weather conditions need to be suitable to safely complete the burn. Due to weather issues, the burn was unable to be safely conducted.

Fireland completed an inspection of all fire lines. The reconstruction of all fire lines was also contracted and commenced in October 2024 however, complaints from neighbouring land to Gold Coast City Council and

other regulators enforced a temporary stoppage of fire line work. Following this, wet weather prevented additional work on reconstructing fire lines until after the ACR period.

On-ground fire management is currently awaiting suitable weather, following which actions from the current burn plan will be commenced.

Refer to **Appendix E** for current Burn Plan.

2.5.6 Ongoing Access Track Issues

The overall site access to perform efficient management and monitoring across the offset site was identified as insufficient while undertaking required monitoring and management during the Year 1 reporting period. In addition, it was identified by Boral and specialist contractors, that safety protocols under risk management thresholds were too high to complete manual and physical tasks whereby certain activities were required to be completed. These included carrying heavy equipment, toxic substances, completing fire management activities or completing dangerous or animal-related trapping methods. Ethics legislation and approval conditions for animal trapping also limits the ability to use vertebrate traps in terrain whereby regular access to ensure animal health and minimisation of distress is precluded.

For safety management purposes, reliable access and/or proximity to a vehicle and/or tracks for immediate exit of the offset site are required in association with the aforementioned dangerous activities. In order to ensure safety for all staff and contractors onsite, a review of state and local legislation to ensure compliance with environmental aspects was undertaken. The outcome of this review indicated that tracks could be maintained and improved under Accepted Development Clearing Codes under state legislation, but the local council (Gold Coast City Council, GCCC) required two separate works approvals.

During the Year 2 reporting period, internal issues within council delayed the approval through misaligned departmental expectations in regards to environmental management of the minor watercourse crossing and civil design requirements for the small track and crossing. Several re-designs were requested to satisfy each department before the extended process was able to be resolved. Evidence of Boral's journey to navigate the works approval, involving numerous meetings and correspondence, and associated approval are detailed in Year 2 ACR documentation.

The approval to complete the access tracks works was received in April 2023 and Boral expedited the works for commencement in May 2023. However, heavy rainfall was received in South East Queensland during December 2023 and January 2024. This resulted in significant impacts to the construction of the crossing, resulting in damage to the crossing. **Table 4** demonstrates the rainfall received for the month compared to the long-term average.

Further, severe storms hit the Gold Coast and other Local Government areas on 25 December 2023. Heavy rainfall and strong winds hit South East Queensland, resulting in extensive damage across the Gold Coast, Logan and Scenic Rim Local Government Areas. A total of 138.6mm of rainfall was recorded overnight and a maximum wind gust of 106km/hr was recorded. This data was extracted from Gold Coast Seaway (Station ID 040764) (BOM 2024). Since this period, South East Queensland has been subject to high levels of rainfall from February to March 2024 with moderate levels of precipitation persisting throughout most of 2024 before increasing in October 2024 (refer **Table 5**).

Table 4: Rainfall received compared to the mean rainfall data – November 2023 to March 2024.

Month Year	Rainfall Received	Mean Rainfall
November 2023	173.0 mm	96.5 mm
December 2023	115.0 mm	127.8 mm
January 2024	592.0 mm	142.8 mm
February 2024	113.0 mm	158.4 mm
March 2024	111.0 mm	140.7 mm

Luscombe Alert (Station 040345) extracted from the Bureau of Meteorology 2024

Table 5: Rainfall received compared to the mean rainfall data – October 2024 to February 2025.

Month Year	Rainfall Received	Mean Rainfall
October 2024	114.0 mm	89.7 mm
November 2024	188.5 mm	81.8 mm
December 2024	260.5 mm	121.2 mm
January 2025	124.0 mm	173.0 mm

Windaroo (Station 040973) extracted from the Bureau of Meteorology 2024

On the 19 December 2023, after receiving heavy rainfall over the weekend, the crossing was inspected and the high rainfall resulted in the rainwater going down the drain, and a washout near the headwall occurred (refer **Photo set 3**).



Photo set 3: Washout at Headwall, photos dated 19 December 2023.

On the 8 January 2024, the crossing was inspected again, following heavy rainfall over the Christmas period. The heavy rainfall results in the crossing being damaged again, requiring a complete re-build once the rainfall had ceased (refer **Photo set 4**).



Photo set 4: Damage to crossing, dated 8 January 2024.

The crossing was inspected on the 18 February 2024 following significant rainfall received on the 16 February 2024. The crossing was damaged again, requiring re-construction.

Boral had construction contractors ready to commence the rebuild of this crossing from June 2024. Following construction, the design of the crossing will hold against such weather events, providing functional access to expedite the planned management actions safely and effectively.

During the Year 4 reporting period the crossing was completed at the (end of June 2024) which allowed access into the offset area by vehicle.

Fireland were commissioned to undertake an assessment of the firelines and access tracks in August 2024 following the completion of the crossing. The assessment was to understand the condition of the tracks for fire management purposes but also accessibility for implementation of offset management requirements. The previously established tracks had not been inspected nor maintained for over 10 years and the site has been subject to significant weather events over recent years.

On completion of this inspection, it was identified that significant works were required to reconstruct the fire lines and access tracks due to severe erosion and vegetation growth. As well as clearing of some regrowth vegetation, in additional local approvals.

Fireland were then engaged in September 2024 to begin reconstruction of the firelines. Works continued until October 2024 however due to a neighbour's complaint to regulatory authorities regarding reconstruction activities within the offset area, works ceased until the matter was resolved with regulatory authority. Due to the delay in resolution (e.g. regulatory inspection etc.), the work was further delayed and were ceased due to the onset of the wet season in QLD (November to April).

Works are expected to recommence May 2025, following the wet season, now that resolution with the neighbour has occurred.

2.5.7 Offsets Area Adjacent Landholder Encroachment

During Year 1, Boral proactively surveyed the offset area to ensure all works proposed under the OMP were completed within the offset area boundary. During this process, minor clearing encroachment within the offset area was detected on the western boundary. This included unauthorised clearing for an access track and clearing for a dam completed by the adjacent landholder. Refer to **Figure 3** and **Figure 4** for location. This minor, historical clearing was reported fully within the Year 1 ACR.

Under the EPBC Act approval, specifically condition 6, clearing within the offset area is not permitted. However, as the clearing was not undertaken by Boral and relates to historical clearing predating the securing of the offset area, it is considered a minor non-compliance under the EPBC Act approval. As the clearing is against the objectives of the OMP, actions were proposed to prevent further clearing of the area and integrate it back into the management regime of the offset area under the OMP and specific offset area management plans.

No additional clearing or issues arising from this historical incident have occurred during the current reporting period. The management of these areas are occurring in accordance with the requirements detailed within the Koala Habitat Rehabilitation Management Plan and as specified within the chosen management methods for the encroached area. As such, the minor non-compliance is considered to have been sufficiently addressed and resolved during the Year 1 ACR reporting period.

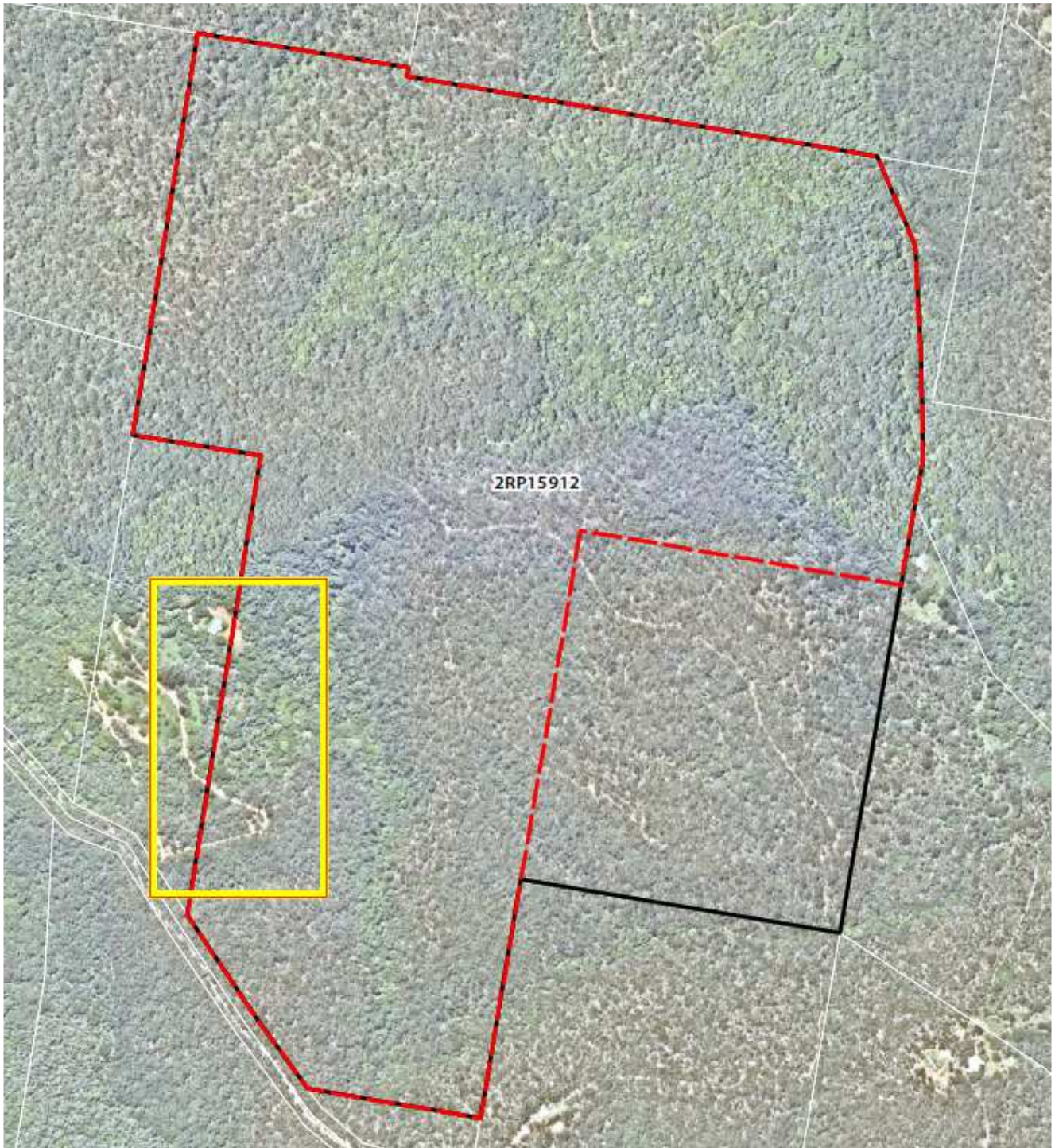
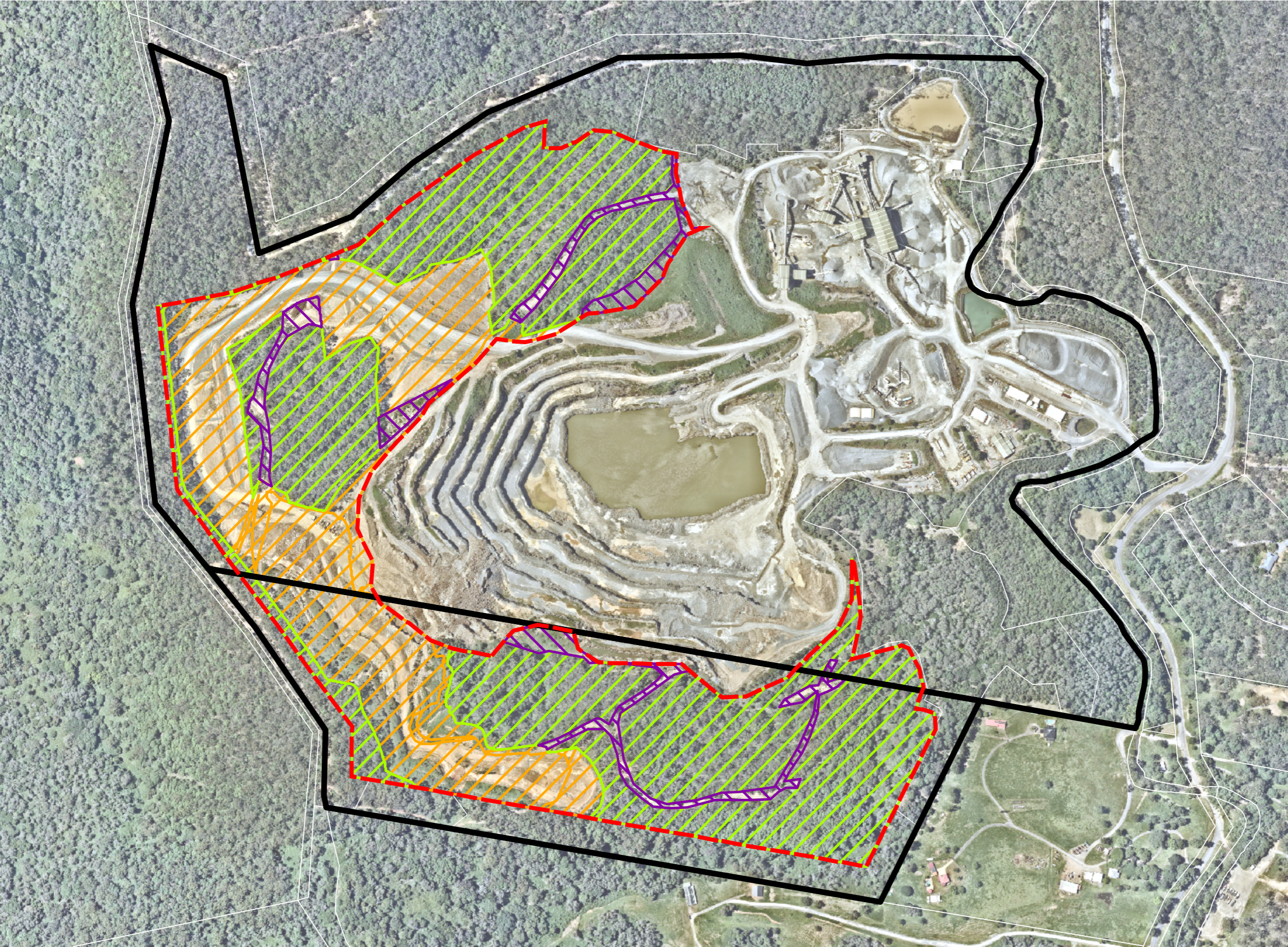


Figure 3: Location of accidental historical encroachment by neighbour, discovered during surveying of offsets site boundary.



Figure 4: Aerial showing the western boundary of the offsets site and the prior encroachment into the site unknowingly by neighbouring landholders.

1. Koala critical habitat clearing - impact area



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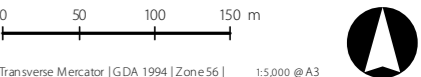
Legend

- Project Site
- Project Area
- Qld DCDB

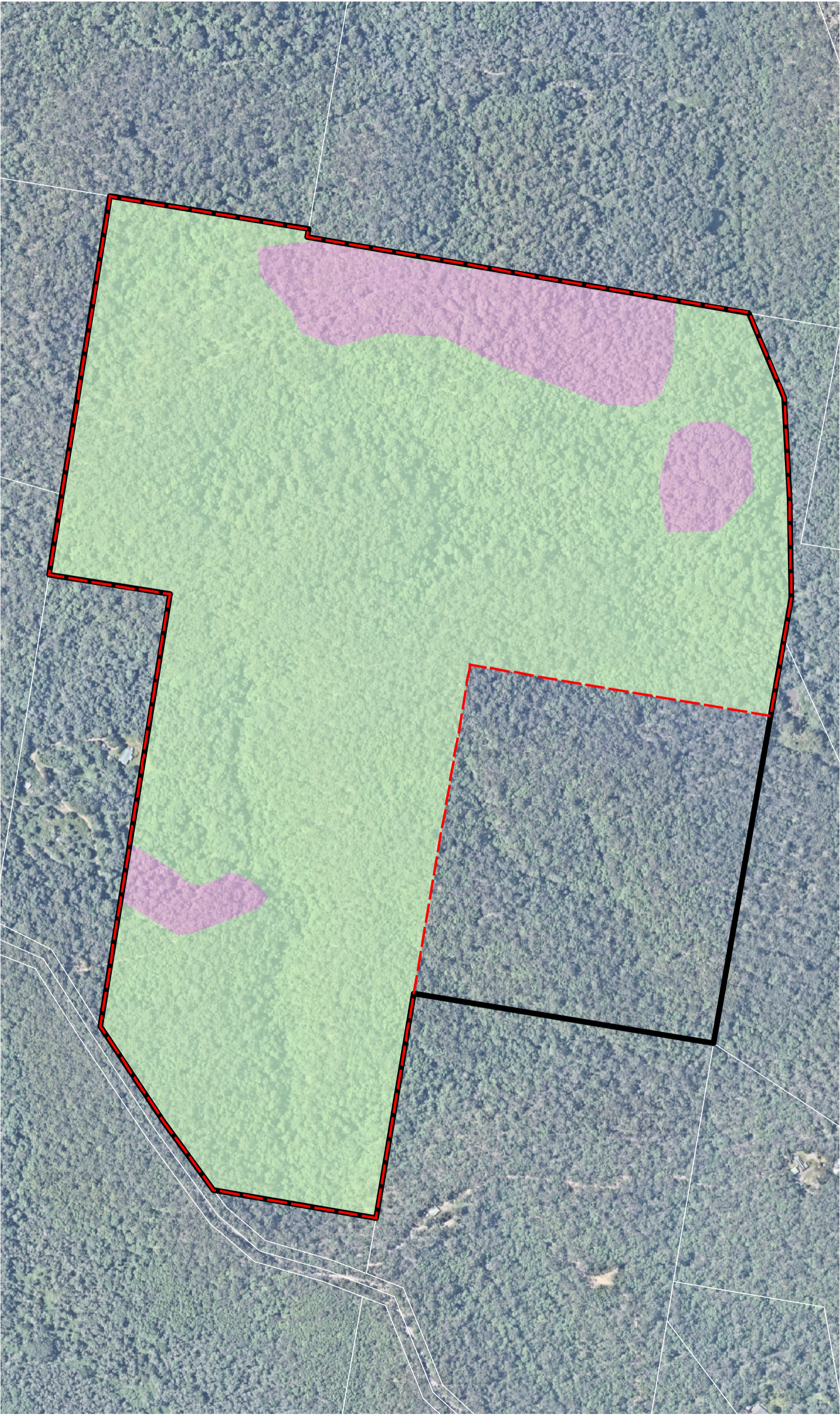
Koala Critical Habitat Areas

- Previous years' KCH clearing total [13.28 ha]
- Year 4 KCH Clearing [2.28 ha]
- Remaining KCH [22.06 ha]

Issue	Date	Description	Drawn	Checked
A	11/04/2025	Preliminary	TF	MM



2. Offset Area Management Zones



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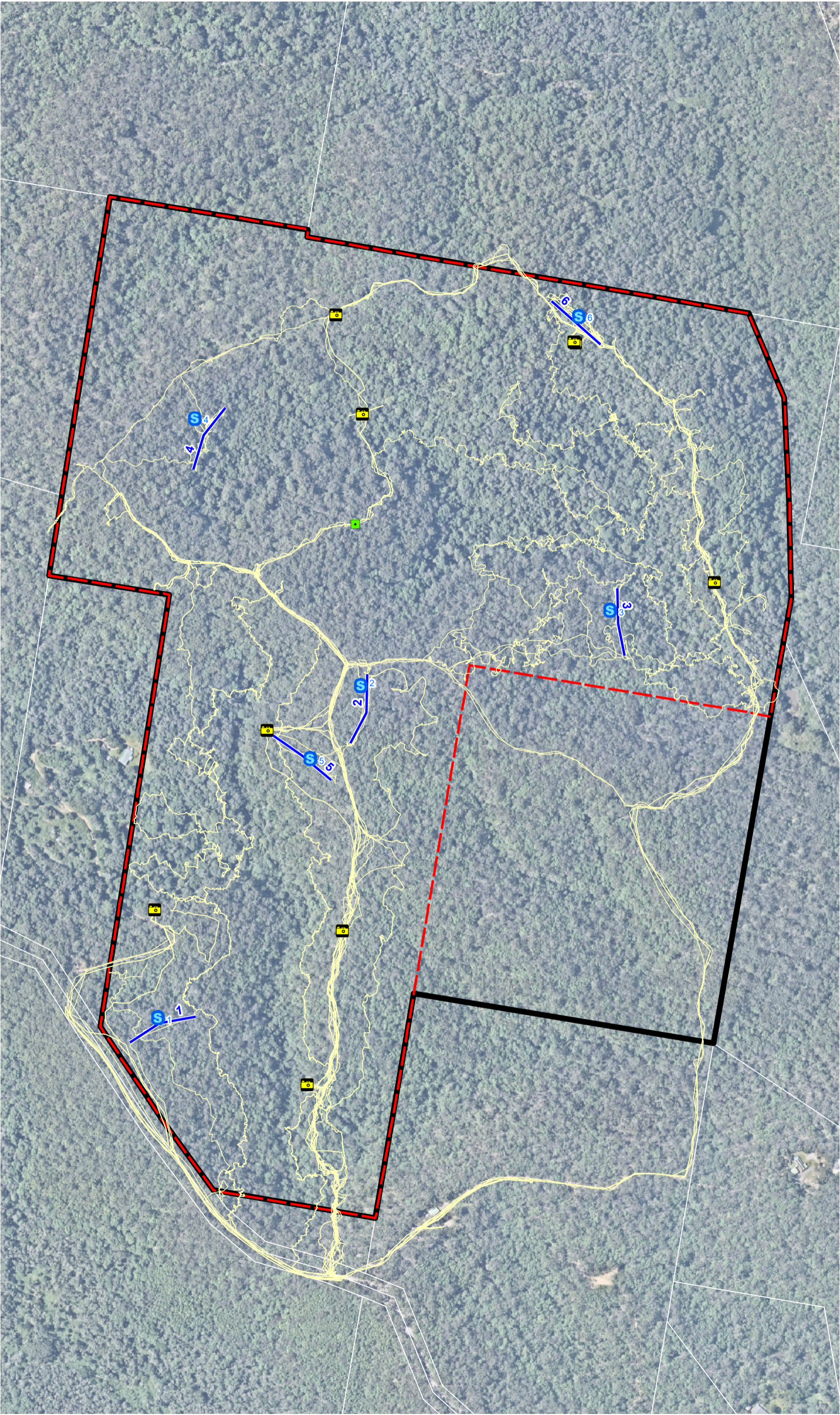
- Qld DCDB
- Offset Site
- Offset Area
- Management Zones**
 - Habitat Rehabilitation Areas
 - Remnant Vegetation Management Areas

Issue	Date	Description	Drawn	Checked
A	11/04/2025	Preliminary	TF	MM

050100150 m

Transverse Mercator | GDA 1994 | Zone 56 | 1:5,000 @ A3

3. Field Survey Effort (Year 4)



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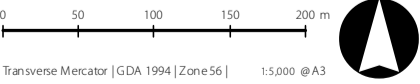
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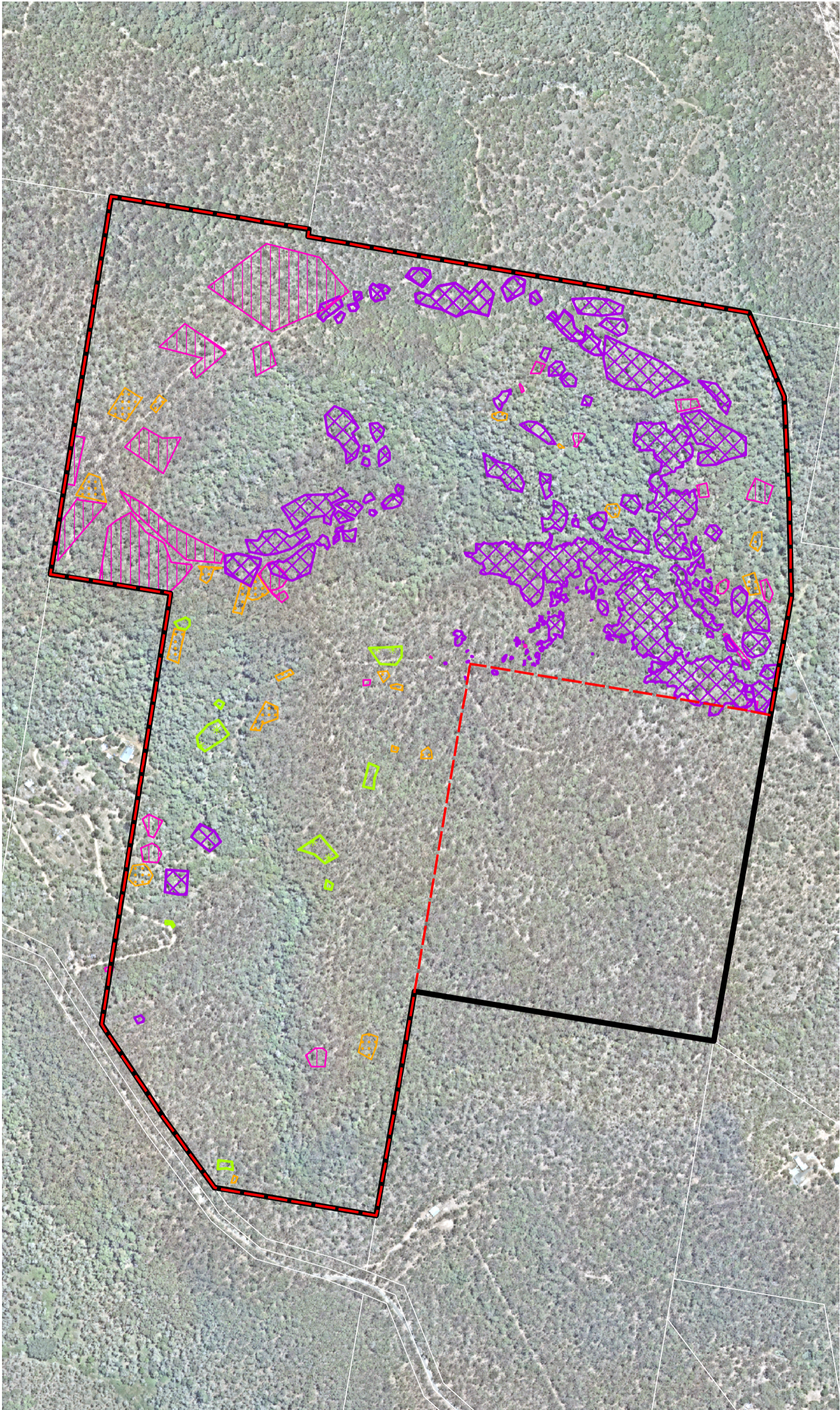
Legend

- Qld DCDB
- Offset Site
- Offset Area
- Camera Trap Locations
- SAT Survey Locations
- Habitat Transects
- Koala scat
- GPSTrack log

Issue	Date	Description	Drawn	Checked
A	11/04/2025	Preliminary	TF	MM



4. Weed Mapping (Year 4)



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Legend

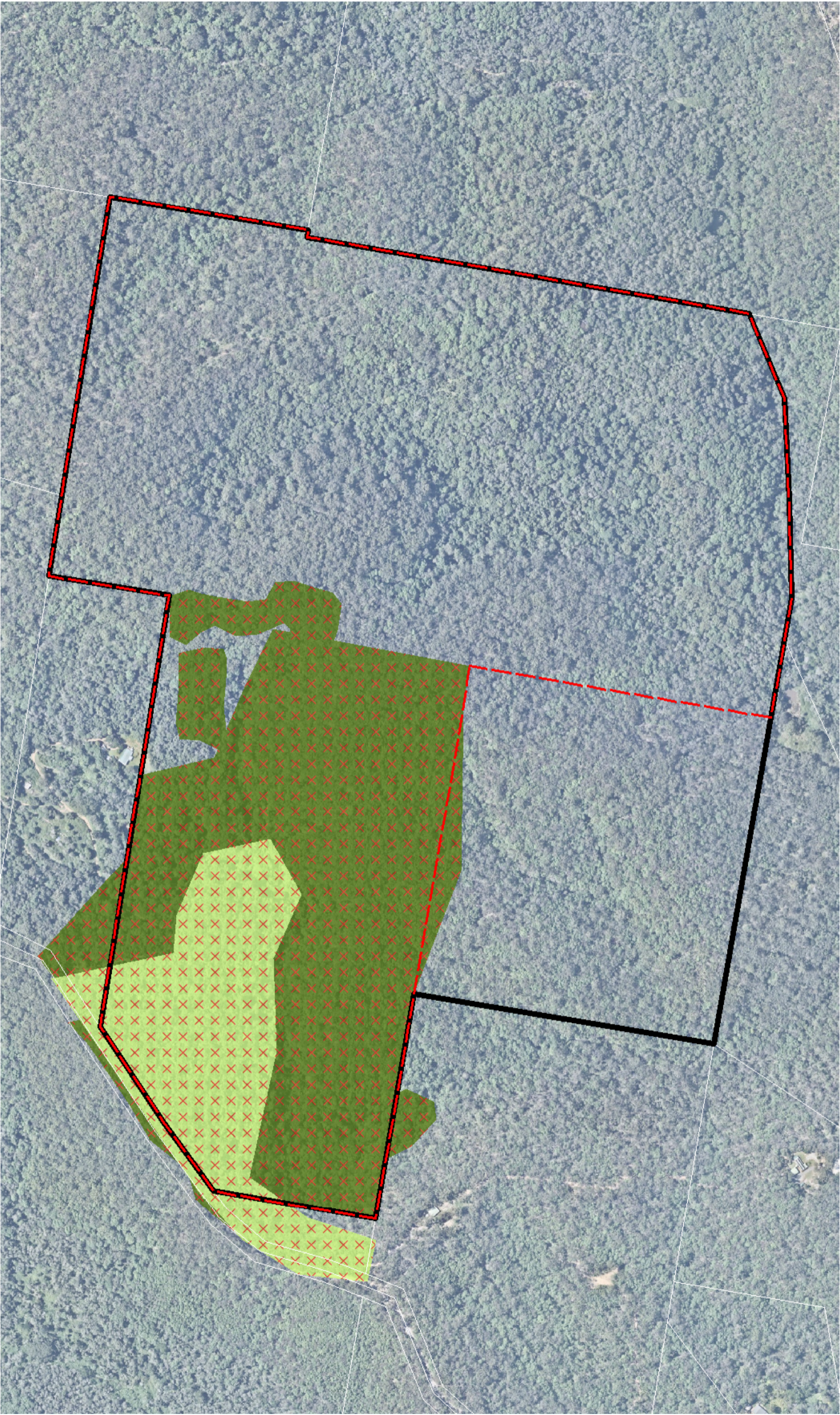
- Offset Site
 - Offset Area
 - Qld DCDB
- Weed Mapping Results**
- Treated Areas (Scattered to Low Density)
 - Scattered Weeds
 - Low Density
 - Medium Density
 - High Density

Issue	Date	Description	Drawn	Checked
A	14/04/2025	Preliminary	TF	MM

050100150 m

Transverse Mercator | GDA 1994 | Zone 56 | 1:5,000 @ A3

5. Offset Site Weed Treatment Areas



Notes:
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Legend

- Offset Site
- Offset Area
- Qld DCDB
- Weed Treatment Areas (Years 1, 2 and 3)
- Weed Treatment Areas (Year 4)

Issue	Date	Description	Drawn	Checked
A	11/04/2025	Preliminary	TF	MM

050100150200 m

Transverse Mercator | GDA 1994 | Zone 56 | 1:5,000 @ A3

2.6. Offset Management Plan

A review of the OMP commitments and implementation is provided in **Table 6**.

Table 6: Offset Management Plan implementation

Management Action	Commitment	Evidence / Comments / Status
OMP 1	WONS Management Management measures for the control of WONS, specifically <i>Lantana camara</i> will include; <ul style="list-style-type: none"> Baseline weed mapping for WONS will be completed in 2019 will be conducted throughout the offset area and site specific treatment techniques developed depending on the location and extent of weed coverage within six months of commencement of the action. All identified WONS will be treated within 12 months of commencement of the action. WONS will be monitored and treated annually, including in 2019, until they are not observed on the property. Once WONS are not detected where they have previously been detected, every 2 years: <ul style="list-style-type: none"> Comprehensive monitoring for WONS will be conducted. WONs that are reported or detected by comprehensive monitoring will be treated. A suitably qualified bush regeneration contractor will be engaged to undertake the necessary weed control. Control of infestations will utilise techniques that avoid disturbance to surrounding area. 	<p>The OMP specified baseline weed mapping should be completed across the site in 2019, however, this did not occur. As weed status and coverage has the ability to change quickly, dependent on weather and rainfall, conducting baseline weed mapping across the site prior to the commencement of the action (triggering the additional actions under the OMP) may have resulted in incorrect representation to inform management actions. Despite this, this is considered a minor non-compliance.</p> <p>A Weed Management Plan (WMP) was developed by SHG in 2021 to fulfil the requirements of the OMP. The WMP details baseline surveys of weed cover and weed species detected within the offset area. Specific management actions and timeframes have been developed for the control of weeds on-site as well as regular and annual monitoring techniques.</p> <p>SHG Ecologists mapped the extent of WONS across the offset area during the 2024/2025 Year 4 reporting period (August/September 2024). WONS identified and mapped were predominantly <i>Lantana camara</i> (Lantana) (refer Plan 4).</p> <p>Bushcare Services were engaged to complete ongoing weed management across the offset site. Despite the contractor providing continual management services across the offset area, the extent of weed treatment work was significantly limited by safe accessibility. As discussed in Section 2.5.6, a combination of lack of vehicle access tracks and severe track damage /erosion limited access across the site. As a result, weed treatment was limited to more accessible portions of the offset area located within the central and southern portions of site, as demonstrated in Plan 5.</p> <p>Track repair and rebuild design underwent the approval process under the Gold Coast City Planning Scheme for an operational works application throughout the Year 2 and Year 3 ACR period. This approval was obtained in the Year 3 reporting period (April 2023) and Boral progressed through track works in May 2023 to increase access and safety across the site.</p>

Management Action	Commitment	Evidence / Comments / Status
		<p>The crossing was inspected on the 18 February 2024 following significant rainfall received on the 16 February 2024. The crossing was damaged, requiring further re-construction.</p> <p>Construction contractors were engaged by Boral to commence the rebuild of this crossing, with completion of the access track and crossing in June 2024. Following construction, the design of the crossing will hold against such weather events, providing functional access to expedite the planned management actions safely and effectively.</p> <p>Bushcare Services continued treating WONS in the southern portion the site (refer Plan 5) due to the lack of suitable access during the Year 4 reporting period. Once improved access to the offset site is available further weed management can occur in northern areas.</p> <p>It is noted that as all WONS were not treated across the offset site this is considered a minor non-compliance. Once access tracks have been re-instated, Bushcare Services will be able to complete the weed treatment efficiently and safely.</p> <p>A minor non-compliance was identified in the Year 1 ACR where baseline weed mapping and treatment did not commence in 2019 as specified within the OMP. As the action did not commence until 2021, this baseline weed mapping and treatment occurred following this and will continue until WONS are not identified on the property, as per the OMP.</p>
	<p>Rehabilitation and Regeneration Management Plan</p> <p>Management measures for rehabilitation and regeneration include:</p> <ul style="list-style-type: none"> Baseline mapping to identify rehabilitation and regeneration areas and development of a rehabilitation plan specifying techniques and species to be utilised will be completed within 12 months of commencement of the action. Rehabilitation areas are to consist of one canopy tree per 10m², three shrubs per 10m² and one groundcover per 2m². Where natural regeneration is the preferred approach, infill planting will be implemented where regeneration has been unsuccessful after three years. All rehabilitation activities are to be carried out by a suitably qualified bush regeneration contractor. The plants reinstated in any particular location must be consistent with the mapped regional ecosystem or pre-clear regional ecosystem over that area. 	<p>A Koala Habitat Management Plan (KHMP) was completed by SHG to guide rehabilitation efforts across the offset area. This was addressed in the Year 1 ACR. Baseline mapping across the site identified areas suitable for different restoration management techniques (refer Plan 2 of KHMP).</p> <p>Treatment of WONS is currently being carried out across the offset area which are required works leading into the commencement of regeneration and infill planting. As discussed in Section 2.5.6, on-going access issues has resulted in Weed Management being limited to the southern and central portions of the site.</p> <p>Further, infill plantings have not been completed due to ongoing access issues. The lack of access resulted in the rehabilitation areas not being able to safely and effectively accessed to import the tube-stock to the planting areas as well as water the plantings whereby the tube-stock was able to be planted.</p>
OMP 2		

Management Action	Commitment	Evidence / Comments / Status
	<ul style="list-style-type: none"> All rehabilitation is to commence within three years of commencement of the action. Regeneration areas that require infill planting will be identified and regeneration actions outlined in the third annual compliance report. 	As such, this is considered a non-compliance and will be discussed further in Section 4 .
OMP 3	<p>Legally securing the offset area</p> <p>A Voluntary Declaration will be placed over the offset area to legally secure the conservation use on the land prior to the action commencing. Boral will continue to manage the offset area for the life of the approval.</p>	The Proponent legally secured the offset via a Voluntary Declaration under the <i>Vegetation Management Act 1999</i> on the 22 February 2019. In accordance with Condition 5, the offset was legally secured prior to the official commencement of the action on the 3 March 2021. Evidence was provided in the Year 1 ACR.
OMP 4	<p>Pest Management Plan</p> <p>Management measures for the control of feral or unwanted domestic dogs across the offset site include:</p> <ul style="list-style-type: none"> Baseline pest monitoring including motion activated cameras and scat analysis to identify evidence of feral or unwanted dogs (and other pest species), and development of a property wide feral animal management program specifying techniques (trapping, baiting, shooting) to be utilised will be completed within 12 months of commencement of the action. Annual pest monitoring by a suitably qualified pest management contractor, with evidence of pest animals GPS recorded. Where there is evidence of pest animals, targeted trapping and baiting programs will be implemented by an independent suitably qualified pest management contractor. Where annual monitoring does not identify any feral or pest species monitoring will reduce to 2 yearly. Where practical and appropriate, participate cooperatively in pest management planning and implementation with local land managers (government departments, local governments and utility providers) to ensure effective pest management in the locality of the offset area. Install appropriate signage informing the area is under feral control. 	<p>Baseline monitoring of pest species across the offset site was completed by SHG in 2021 which identified <i>Vulpes vulpes</i> (European red fox) as utilising the site. While camera trapping during baseline surveys was not successful in detecting <i>Canis lupus familiaris</i> (wild dogs), dog prints were observed across the offset area during baseline surveys. The results of the baseline monitoring are detailed in the Vertebrate Pest Management Plan (VPMP) produced by SHG in 2021. The VPMP outlines specific pest management measures and methods to be undertaken throughout the life of the offset.</p> <p>Site access during Year 1, Year 2, Year 3 and Year 4 has been highly restricted due to the main access track being severely eroded, with the above-average rainfall in the previous reporting period contributing to the deterioration of access tracks. This restricted access removed any ability for vehicular access onto the site for management purposes, placing limitations on work which could be completed, while prioritising compliance with animal ethics requirements for pest management.</p> <p>As discussed in Section 2.5.6, the prolonged approval process with City of Gold Coast Council and high rainfall and continued to inhibit construction of the access tracks and safe access of the site.</p> <p>The completion of management tracks throughout the offset site will allow for increased access, affording the efficient and appropriate use of pest management techniques across the offset site.</p> <p>For the reasons mentioned above, pest management activities have not commenced within the offset area, with only monitoring surveys being completed. Annual monitoring was completed by Biodiversity Australia which identified both <i>Vulpes vulpes</i> (European Red Fox) and <i>Canis familiaris</i> (Domestic / Feral Dog) non-native vertebrate pests within the offset area (refer Appendix C for monitoring report).</p>

Management Action	Commitment	Evidence / Comments / Status
		Signage will be installed as a component of the commencement of on-site trapping and pest species management for safety and in compliance with the conditions.
	<p>Koala Habitat Quality Management Plan</p> <p>The use of the habitat quality assessment methodology prepared by the Queensland Herbarium (DEHP 2017) provides a repeatable and consistent method for determining habitat quality specific to koalas. The method also utilises benchmark scores to ensure all sites measured are calibrated against a known standard. This calibration provides additional confidence and assurance in the accuracy of the method to score habitat quality.</p> <p>The habitat quality monitoring is to be undertaken at six (6) permanent transect locations established during baseline habitat quality score assessments within the koala offset area.</p> <p>The total area of the offset site is 77 ha consisting of non-remnant vegetation and three REs, which are sized as follows:</p> <ul style="list-style-type: none"> • 32.6 ha of RE12.11.3 • 37.5 ha of RE12.11.5 • 1.6 ha of RE12.11.10 • 5.3 ha of non-remnant vegetation <p>Habitat quality monitoring will be undertaken annually for the first three (3) years and then once every five (5) years to determine if the target quality score has been maintained for the offset area over the EPBC Act period of approval (maintain a habitat quality score of eight (8)). The habitat quality monitoring is to be reported in the ACR every five (5) years or the subsequent year that the monitoring is completed.</p> <p>Koala usage monitoring will be carried out as part of the habitat monitoring. Surveys will be carried out using the Spot Assessment Technique (SAT) at all six (6) permanent transect locations.</p>	<p>A Koala Habitat Management Plan (KHMP) (Rehabilitation Plan) was developed for the offset area which details strategies that will be implemented in order to achieve the Koala habitat rehabilitation aims set out in the OMP.</p> <p>The management zones within the offset area include 'Remnant Vegetation' and 'Habitat Rehabilitation.' Management of WONS, namely Lantana, occurred within the central and southern portion of the offset area, assisting with natural regeneration of native vegetation. Management of WONS was not able to be completed throughout the entire offset area due to the lack of suitable access tracks which created safety concerns for the weed management personnel as well as not being able to access the entire site with the necessary equipment.</p> <p>Annual habitat quality monitoring of Koala habitat utilising the MHQA methodology was conducted at six permanent transect locations across the offset area in September 2024. MHQA scores for the offset area are reported within this ACR. This includes five transects within the Remnant vegetation area and one transect within the non-remnant vegetation area (refer Plan 3).</p> <p>Habitat quality scores remained relatively steady between Year 2, Year 3 and Year 4. Habitat quality of all Assessment Units remained constant with Year 3 results.</p> <p>Koala scats were recorded during SAT surveys at three (3) of the transect locations during the Year 4 m monitoring period, demonstrating Koalas continue to utilise the offset site.</p>
	<p>Bushfire Management Plan</p> <p>The Bushfire Management Plan will be prepared by a suitably qualified professional and will detail current vegetation condition and fire risk, locations of current and required firebreaks and fire control lines, current fuel loads, recommended actions and timeframes for maintenance of bushfire risk within the context of the adapted Regional Ecosystem Description Database guidelines and biodiversity outcomes sought for the offset area.</p>	<p>A Bushfire Management Plan (BMP) was developed for the site by Land and Environment Consultants (LEC) in accordance with OMP Management Action 6 in 2021. This BMP details management measures that will be implemented across the site to reduce risk of bushfire.</p> <p>A Burn Plan was developed for the site by Fireland in January 2024 in accordance with the requirements under the Bushfire Management Plan for the site, under the OMP Management Action 6. The BMP details management measures that</p>

Management Action	Commitment	Evidence / Comments / Status
	<p>Management measures will be outlined in the BMP for the control of bush fire across the offset area but will include:</p> <ul style="list-style-type: none"> • Installation of firebreaks and fire trails. • Annual inspection and maintenance of firebreaks and access tracks required to achieve compliance with Offset Area Bushfire Management Plan. • Prescribed burning undertaken in consultation with, and under the guidance of the Queensland Rural Fire Brigade and in compliance with the Fire and Emergency Services Act 1990. • Use of domestic livestock or other methods to reduce fuel loads in the event that a fire risk professional (e.g. representative of Queensland Rural Fire Service) and a suitably qualified environmental scientist deem that conditions are not suitable for an ecological burn and that grazing is appropriate to manage a high level of fire risk. Level of risk (and any need to repeat this grazing cycle) is to be reassessed by the aforementioned professionals following the grazing event. 	<p>will be implemented across the site to reduce risk of bushfire, with an annual Burn Plan forming a component of these management measures.</p> <p>The Burn Plan incorporates a burn map, complexity ratings, pre-burn works order, a risk assessment and contingency maps. On-ground fire management of the offset has not commenced at present due to unsuitable weather conditions and issues in October 2024 with complaints made to regulators by neighbours due to their uncertainty about the nature of the fire management works. These approvals and the issues with obtaining them is detailed under Section 2.5.6 and within Section 4.</p>

Table 7: Modified Habitat Quality Assessment Scores – Year 4

Condition characteristics	Max. score	Score (RE12.11.3)	Score (RE12.11.5)	Score (RE12.11.10)	Score(non-remnant)
Site Condition (30%)					
Recruitment of woody perennial species	5	5	5	5	5
Native plant species richness - trees	5	5	5	2.5	2.5
Native plant species richness - shrubs	5	2.5	2.5	2.5	2.5
Native plant species richness - grasses	5	2.5	2.5	5	5
Native plant species richness - forbs	5	2.5	2.5	2.5	0
Tree canopy height	5	5	5	5	3
Tree canopy cover	5	5	5	5	5
Shrub canopy cover	5	5	3	5	3
Native perennial grass cover	5	5	3	1	5
Organic litter	5	5	5	5	5

Condition characteristics	Max. score	Score (RE12.11.3)	Score (RE12.11.5)	Score (RE12.11.10)	Score(non-remnant)
Large trees	15	5	15	5	5
Coarse woody debris	5	5	5	2	2
Weed cover	10	3	5	3	3
Quality and availability of food and foraging habitat	10	10	10	10	10
Quality and availability of shelter	10	10	10	10	10
Site condition score	100	72.5	84.5	70.16	59.5
Site condition score (out of 3)	3	2.18	2.54	2.10	1.79
Site Context (30 %)					
Size of the patch	10	7	7	7	7
Connectedness	5	4	4	4	4
Context	5	5	5	5	5
Ecological corridors	6	6	6	6	6
Role of site location to species overall population	5	4	4	4	4
Threats to the species	15	15	15	15	15
Species mobility capacity	10	7	7	7	7
Site context score	56	48	48	48	48
Site context score (out of 3)	3	2.57	2.57	2.57	2.57
Species Stocking Rate (40 %)					
Species stocking rate score	70	40	45	40	40
Species stocking rate score (out of 4)	4	2.29	2.57	2.29	2.29
Unit Scores Total	(rounded)	7.03	7.68	6.96	6.64

Table 8: Comparison of MHQA Scores between baseline, Year 1, Year 2, Year 3 and Year 4

Biocondition Score	Baseline	Year 1 (2021)	Year 2 (2022)	Year 3 (2023)	Year 4 (2024)	Comment
RE 12.11.3						

Biocondition Score	Baseline	Year 1 (2021)	Year 2 (2022)	Year 3 (2023)	Year 4 (2024)	Comment
Site Condition	2.13	2.12	2.12	2.18	2.8	Baseline survey transects were completed in different locations, resulting in variations to the MHQA scores. However, the Year 1, Year, Year 3 and Year 4 locations were consistent.
Site Context	2.57	2.57	2.57	2.57	2.57	
Species Stocking Rate	2.57	2.57	2.57	2.29	2.29	The Year 1 and Year 2 site condition remained steady, while there has been a slight decrease in overall score recorded in Year 3 and Year 4.
RE 12.11.5						
Site Condition	2.26	2.33	2.45	2.54	2.54	Baseline survey transects were completed in different locations, resulting in variations to the MHQA scores. However, Year 1, Year 2, Year 3 and year 4 locations were consistent.
Site Context	2.57	2.57	2.57	2.57	2.57	
Species Stocking Rate	2.57	2.57	2.29	2.57	2.57	Site condition has remained stable in Year 4 to levels recorded during Year 3.
RE 12.11.10						
Site Condition	2.15	1.97	1.95	2.10	2.10	Baseline survey transects were completed in different locations, resulting in variations to the MHQA scores.
Site Context	2.57	2.57	2.57	2.57	2.57	
Species Stocking Rate	2.57	2.57	2.29	2.29	2.29	However, Year 1, Year 2, Year 3 and Year 4 locations were consistent, and site

Biocondition Score	Baseline	Year 1 (2021)	Year 2 (2022)	Year 3 (2023)	Year 4 (2024)	Comment
						condition has remained steady across Year 3 and Year 4.
Non-remnant						
Site Condition	-	1.82	1.79	1.79	1.79	No surveys were completed during Baseline surveys, thus results from the Year 1 surveys are used as the baseline comparison. This transect will monitor the rehabilitation efforts within the non-remnant areas. Year 1, Year 2, Year 3 and year 4 locations remain consistent with a slight decrease in site condition to levels recorded during Year 1.
Site Context	-	2.57	2.57	2.57	2.57	
Species Stocking Rate	-	2.29	2.57	2.29	2.29	Further, no scats were observed during Year 4 surveys, resulting in a decrease in scoring for the species stocking rate during Year 3 and Year 4.

3. EPBC Conditions and Compliance

Table 9 details the Conditions attached to the Ormeau Quarry Approval (EPBC 2016/7797). Sections 2-5 above provide details on process, steps and methodologies used to achieve the Conditions under the approval.

Table 9: Compliance Audit of EPBC 2016/7797 Conditions for Ormeau Quarry

Condition Number	Condition	Is The Project compliant with this condition?	Evidence
1	The person taking the action must not undertake the action outside the Project Site as shown in Attachment A.	Compliant	The action has not occurred outside of the Project Site as shown in Attachment A of the EPBC Approval.
2	The person taking the action must not clear more than 38 hectares of koala habitat in the Project Site as shown in Attachment A.	Compliant	Plan 1 shows the clearing of Koala critical habitat that has occurred within the impact area. A total of 15.56 ha has been cleared in total which includes 2.28 ha cleared during Year 4.
3	The person taking the action must implement the Offset Strategy.	Compliant	The Project is compliant with implementing the Offset Management Plan, refer Table 5 .
4	In the case that the Offset Strategy cannot be implemented on Lot 2 RP15912 and in accordance with the EPBC Act Environmental Offsets Policy (2012), an alternate Offset Strategy must be submitted to the Minister for approval prior to the commencement of the action.	Not applicable	Lot 2 on RP15912 was legally secured under Voluntary Declaration on 22 February 2019.
5	The person taking the action must not commence the action until the offset area is legally secured.	Compliant	Lot 2 on RP15912 was legally secured under Voluntary Declaration on 22 February 2019.
6	The person taking the action must prepare and submit an Offset Management Plan for the Minister's approval to offset the loss of 38 hectares of koala habitat. The person taking the action must not commence the action unless the Minister has approved the Offset Management Plan in writing. The approved Offset Management Plan must be implemented by the person taking the action. The Offset Management Plan must be prepared in accordance with the Department's	Compliant	The Offset Management Plan was completed by Saunders Havill Group in December 2018 and approved by DCCEEW.

Condition Number	Condition	Is The Project compliant with this condition?	Evidence
	Environmental Management Plan Guidelines, and the EPBC Act Environmental Offsets Policy (2012) and include:		
6a	detail of the offset area(s) required to address the loss of 38 hectares of koala habitat consistent with the Offset Strategy or subsequent Offset Strategy described at condition 4;	Compliant - As per Condition 6	
6b	detail of the proposed legal mechanism and timeframes for securing the offset area(s);	Compliant - As per Condition 6	
6c	a map of the offset area(s) in relation to other habitats and biodiversity corridors;	Compliant - As per Condition 6	
6d	information about how the offset area(s) provide connectivity with other koala habitat and biodiversity corridors;	Compliant - As per Condition 6	
6e	a description of the current condition (prior to any management activities) of the offset area(s), including baseline survey data;	Compliant - As per Condition 6	
6f	a description of the management measures (including timing, frequency and longevity) that will be implemented, including discussion of how measures outlined take into account relevant conservation advice;	Compliant - As per Condition 6	
6g	performance and completion criteria for evaluating the management of the offset area(s), and detailed criteria that will trigger corrective actions;	Compliant - As per Condition 6	
6h	a detailed program to monitor and report on the effectiveness of these measures, and progress against the performance and completion criteria;	Compliant - As per Condition 6	
6i	potential risks to the successful implementation of the plan, and a description of the contingency measures that would be implemented to mitigate against these risks, including a bushfire management plan and a pest species management plan.	Compliant - As per Condition 6	
7	The person taking the action must prepare and submit an Environmental Management Plan for the Minister's approval	Compliant	An Environmental Management Plan was completed by Saunders Havill Group in November 2018.

Condition Number	Condition	Is The Project compliant with this condition?	Evidence
	to ensure the protection of EPBC Act listed species on the project site. The Environmental Management Plan must include:		
7a	Details of the mitigation and management measures that will be implemented on the Project Site including, but not limited to:	Compliant Condition 7	– as per
7a. i.	all vehicles within the Project Site be restricted to travel at 40km/hr or less except in an emergency;	Compliant Condition 7	– as per
7a. ii.	signage alerting drivers to the risk of collisions with koalas;	Compliant Condition 7	– as per
7a. iii.	measures to avoid or minimise impacts to the Ormeau Bottle Tree (<i>Brachychiton</i> sp. Ormeau [L.H.Bird AQ435851]) during clearing or operations; and	Compliant Condition 7	– as per
7a. iv.	measures to avoid or minimise impacts to the Grey-Headed Flying Fox (<i>Pteropus poliocephalus</i>) during clearing or operations.	Compliant Condition 7	– as per
General			
8	Within 20 days after the commencement of the action, the person taking the action must advise the Department in writing of the actual date of commencement.	Compliant	The action began on the 3 February 2021 and the Department was advised on the 4 February 2021 via e-mail confirmation. Evidence of this was provided in the Year 1 ACR .
9	The person taking the action must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval, including measures taken to implement the management plans required by this approval, and make them available upon request to the Department. Such records may be subject to audit by the Department or an independent auditor in accordance with section 458 of the EPBC Act, or used to verify compliance with the conditions of approval. Summaries of audits will be posted on the Department's website. The results of audits may also be publicised through the general media.	Compliant	<p>Boral Resources and SHG are responsible for maintaining accurate records of all activities associated with the action.</p> <p>No request from the Department was made during the Year 4 reporting period.</p>

Condition Number	Condition	Is The Project compliant with this condition?	Evidence
10	Within three months of every 12 month anniversary of the commencement of the action, the person taking the action must publish a report on its website addressing compliance with each of the conditions of this approval, including implementation of any management plans as specified in the conditions. Documentary evidence providing proof of the date of publication and non-compliance with any of the conditions of this approval must be provided to the Department at the same time as the compliance report is published.	Compliant	The final day of Year 4 was 2 February 2025, the ACR is due to be published to Boral's website by no later than the 3 May 2025 at the below weblink: https://www.boral.com.au/locations/boral-quarries-ormeau-kingsholme
11	Upon the direction of the Minister, the person taking the action must ensure that an independent audit of compliance with the conditions of approval is conducted and a report submitted to the Minister. The independent auditor must be approved by the Minister prior to the commencement of the audit. Audit criteria must be agreed to by the Minister and the audit report must address the criteria to the satisfaction of the Minister.	Not applicable	No request from the Minister was made to complete an independent audit during the Year 4 reporting period.
12	The person taking the action may choose to revise a Management Plan approved by the Minister under conditions 3, 4, 6 and 7 without submitting it for approval under section 143A of the EPBC Act, if the taking of the action in accordance with the revised plan would not be likely to have a new or increased impact. If the person taking the action makes this choice it must:	Not applicable	No revisions to the management plans were made during the Year 4 reporting period.
12 i.	Notify the Department in writing that the approved plan has been revised and provide the Department with an electronic copy of the revised plan;	Not applicable	No revisions to the management plans were made during the Year 4 reporting period.
12 ii.	Implement the revised plan from the date that the plan is submitted to the Department; and	Not applicable	No revisions to the management plans were made during the Year 4 reporting period.
12 iii.	For the life of this approval, maintain a record of the reasons the person taking the action considers that taking the action in accordance with the revised plan would not be likely to have a new or increased impact.	Not applicable	No revisions to the management plans were made during the Year 4 reporting period.

Condition Number	Condition	Is The Project compliant with this condition?	Evidence
13	The person taking the action may revoke their choice under condition 12 at any time by notice to the Department. If the person taking the action revokes the choice to implement a revised plan without approval under section 143A of the EPBC Act, the plan approved by the Minister must be implemented.	Not applicable	The proponent did not revoke their choice under condition 12 during the Year 4 reporting period.
14	Condition 12 does not apply if the revisions to the approved plan include changes to environmental offsets provided under the plan in relation to a matter protected by a controlling provision for the action, unless otherwise agreed in writing by the Minister. This does not otherwise limit the circumstances in which the taking of the action in accordance with a revised plan would, or would not, be likely to have new or increased impacts.	Not applicable	No revisions to the management plans were made during the Year 4 reporting period.
15	If the Minister gives a notice to the person taking the action that the Minister is satisfied that the taking of the action in accordance with the revised plan would be likely to have a new or increased impact, then:	Not applicable	No revisions to the management plans were made during the Year 4 reporting period.
15 i.	Condition 12 does not apply, or ceases to apply, in relation to the revised plan; and	Not applicable	No revisions to the management plans were made during the Year 4 reporting period.
15 ii.	The person taking the action must implement the plan approved by the Minister.	Not applicable	No revisions to the management plans were made during the Year 4 reporting period.
	<p>To avoid any doubt, this condition does not affect any operation of conditions 12, 13 and 14 in the period before the day the notice is given.</p> <p>At the time of giving the notice the Minister may also notify that for a specified period of time that condition 12 does not apply for one or more specified plans required under the approval.</p>		
16	Conditions 12, 13, 14 and 15 are not intended to limit the operation of section 143A of the EPBC Act which allows the	Not applicable	No revisions to the management plans were made during the year 4 reporting period.

Condition Number	Condition	Is The Project compliant with this condition?	Evidence
	person taking the action to submit a revised plan to the Minister for approval.		
17	If, at any time after 5 years from the date of this approval, the person taking the action has not substantially commenced the action, then the person taking the action must not substantially commence the action without the written agreement of the Minister.	Not applicable	The action commenced on 3 February 2021.
18	Unless otherwise agreed to in writing by the Minister, the person taking the action must publish all management plans referred to in these conditions of approval on its website. Each management plan must be published on the website within one month of being approved by the Minister or submitted under condition 12.	Compliant	All management plans referred to under this approval (the Environmental Management Plan and Offset Management Plan) were published on Boral's website within one month of approval by the Minister.

4. Non-compliances

4.1. Weed Management and Rehabilitation

The OMP states that all WONS will be treated within 12 months of the commencement of the Action. As detailed in **Section 2.4**, management of WONS was unable to be completed across the entirety of the Offset site in Year 1, Year 2, Year 3 and Year 4 attributed to ongoing access issues. Areas of weed management has been completed in the southern portion of the offset site where access was gained by the weed management contractor.

The approval process under the local legislation, required to allow clearing for conservation management purposes within the offset site, is relatively complex, and was being actively driven by Boral in Year 2 to attempt to progress the installation of minor tracks to provide for management purposes. Approval was granted from Gold Coast City Council in April 2023, with works commencing in May 2023.

As discussed in **Section 2.5.1** and **Section 2.5.6**, Boral has attempted to provide safe access for the contractors by expediting construction for May 2023 as soon as the approval was received in April 2023. However, additional operational works requirements by local council caused several months delay in allowing the works to occur and in conjunction with the significant rainfall that occurred in November, December 2023, January, February, March, October, November, December 2024 and January 2025, the crossing has been impacted in three separate occasions, resulting in multiple re-constructions of the crossing. This crossing has continued to affect vehicle access into the site to allow contractors to safely and effectively work. However, following further reconstruction required in February 2024, the crossing was rebuilt mid 2024.

Construction contractors were engaged by Boral to commence the rebuild of this crossing, with completion of the access track and crossing in June 2024. Following construction, the design of the crossing will hold against such weather events, providing functional access to expedite the planned management actions safely and effectively.

As demonstrated in **Plan 5**, areas of the southern portion of the offset area were treated by Bushcare Services. A large area of WONS was treated during Year 4, with efforts concentrated within more accessible portions of the offset area within the central and southern portions however, as weed treatment could not occur across the entire offset area, despite constant work onsite, this is identified as a minor non-compliance under the requirements of the EPBC Act OMP (Condition 6). The inaccessibility of the site during Years 1, 2, 3 and 4, combined with extreme rain events, rendering access even more difficult, has led to Boral preparing to complete the remainder of the site weed and planting objectives following the reconstruction of the crossing, via increased numbers of contractors a revision of weed treatment timeframes over the 24-month period.

However, as the entire offset area was not treated, this is a non-compliance under the OMP specifications (Condition 6). It is acknowledged that

Further, due to the ongoing access issues and the offset area not being entirely treated for WONS, this has resulted in a flow on affect to rehabilitation and regeneration efforts. Areas that require infill planting have also not been completed due the offset area not being able to provide vehicle access to support transfer of

seedlings and sufficient water to support early stages of regenerative growth. As rehabilitation was not commenced within three years of commencement of the action, this is considered a minor non-compliance under the requirements of the EPBC Act OMP (Condition 6).

4.2. Bushfire Management

A Bushfire Management Plan has been completed for the offset site, provided in the Year 1 ACR. The BMP details management measures that will be implemented across the site to reduce risk of bushfire, with an annual Burn Plan forming a component of these management measures. The eroded and damaged state of the main access track in conjunction with an overall lack of access tracks inhibited the commencement of active operations for bushfire management across the offset site throughout previous reporting years.

The inaccessibility of the site resulted in on-ground Bushfire Management actions, identified within the BMP, not commencing during the Year 2 reporting period, where the BMP stated a prescribed burn in FMU2 should have been completed, which was unable to safely be completed. This was considered a minor non-compliance under Condition 6.

The BMP stipulated that a prescribed burn of FMU 5 be completed in 2024. A Burn Plan was developed for the site by Fireland in accordance with the requirements under the Bushfire Management Plan for the site, under the OMP Management Action 6. The Burn Plan incorporates a burn map, complexity ratings, pre-burn works order, a risk assessment and contingency maps.

The prescribed burn for FMU 5 was not completed during the Year 4 reporting period, due to unsuitable weather conditions, which followed complications with the reconstruction of the fire lines on the offset site. Complaints by neighbours due to lack of understanding of works implementation of these fire lines, led to the enforcement of cessation of activity by Gold Coast City Council and other regulators in October 2024. Following, resolution with the neighbour and cessation of the wet season, leading into more suitable fire management conditions,, works are expected to recommence from May 2025.

Refer to **Appendix E** for Burn Plan to be implemented.

5. Appendices

Appendix A

EPBC Approval (EPBC 2016/7797)

Appendix B

SHG camera trapping images

Appendix C

Non-native Vertebrate Pest Monitoring Reports Year 4 – Biodiversity Australia

Appendix D

Weed Management Record Sheets Year 4 – Bushcare Services

Appendix E

Burn Plan/Fire – Fireland

Appendix F

Gold Coast City Council approval

Appendix A

EPBC Approval (EPBC 2016/7797)



Approval

Ormeau Quarry Expansion, 12 km north-west of Oxenford, Queensland (EPBC 2016/7797).

This decision is made under sections 130(1) and 133 of the *Environment Protection and Biodiversity Conservation Act 1999*.

Proposed action

person to whom the approval is granted	BORAL RESOURCES (QLD) PTY. LIMITED
proponent's ACN	009 671 809
proposed action	To expand the existing Ormeau Quarry Site, approximately 12 kilometres (km) north-west of Oxenford and 43 km from Brisbane, Queensland [See EPBC Act referral 2016/7797].

Approval decision

Controlling Provision	Decision
Listed threatened species and communities (sections 18 & 18A)	Approved


Conditions of approval

This approval is subject to the conditions specified below.

Expiry date of approval

This approval has effect until 8 November 2057

Decision-maker

name and position	James Barker Assistant Secretary Assessments and Governance Branch
signature	
date of decision	16 / 2 / 2018

Conditions attached to the approval

Conditions
1. The person taking the action must not undertake the action outside the Project Site as shown in <u>Attachment A</u> .
2. The person taking the action must not clear more than 38 hectares of koala habitat in the Project Site as shown in <u>Attachment A</u> .
3. The person taking the action must implement the Offset Strategy .
4. In the case that the Offset Strategy cannot be implemented on Lot 2 RP15912 and in accordance with the EPBC Act Environmental Offsets Policy (2012) , an alternate Offset Strategy must be submitted to the Minister for approval prior to the commencement of the action.
5. The person taking the action must not commence the action until the offset area is legally secured .
6. The person taking the action must prepare and submit an Offset Management Plan for the Minister's approval to offset the loss of 38 hectares of koala habitat . The person taking the action must not commence the action unless the Minister has approved the Offset Management Plan in writing. The approved Offset Management Plan must be implemented by the person taking the action. The Offset Management Plan must be prepared in accordance with the Department's Environmental Management Plan Guidelines , and the EPBC Act Environmental Offsets Policy (2012) and include: <ul style="list-style-type: none"><li data-bbox="255 1131 1428 1243">a. detail of the offset area(s) required to address the loss of 38 hectares of koala habitat consistent with the Offset Strategy or subsequent Offset Strategy described at condition 4;<li data-bbox="255 1265 1428 1332">b. detail of the proposed legal mechanism and timeframes for securing the offset area(s);<li data-bbox="255 1355 1428 1400">c. a map of the offset area(s) in relation to other habitats and biodiversity corridors;<li data-bbox="255 1422 1428 1489">d. information about how the offset area(s) provide connectivity with other koala habitat and biodiversity corridors;<li data-bbox="255 1512 1428 1579">e. a description of the current condition (prior to any management activities) of the offset area(s), including baseline survey data;<li data-bbox="255 1601 1428 1713">f. a description of the management measures (including timing, frequency and longevity) that will be implemented, including discussion of how measures outlined take into account relevant conservation advice;<li data-bbox="255 1736 1428 1803">g. performance and completion criteria for evaluating the management of the offset area(s), and detailed criteria that will trigger corrective actions;<li data-bbox="255 1825 1428 1892">h. a detailed program to monitor and report on the effectiveness of these measures, and progress against the performance and completion criteria;<li data-bbox="255 1915 1428 2072">i. potential risks to the successful implementation of the plan, and a description of the contingency measures that would be implemented to mitigate against these risks, including a bushfire management plan and a pest species management plan.

7. The person taking the action must prepare and submit an Environmental Management Plan for the **Minister's** approval to ensure the protection of EPBC Act listed species on the project site. The Environmental Management Plan must include:
- a. Details of the mitigation and management measures that will be implemented on the **Project Site** including, but not limited to:
 - i. all vehicles within the **Project Site** be restricted to travel at 40km/hr or less except in an **emergency**;
 - ii. signage alerting drivers to the risk of collisions with koalas;
 - iii. measures to avoid or minimise impacts to the Ormeau Bottle Tree (*Brachychiton* sp. *Ormeau* [L.H.Bird AQ435851]) during clearing or operations; and
 - iv. measures to avoid or minimise impacts to the Grey-Headed Flying Fox (*Pteropus poliocephalus*) during clearing or operations.
 - b. Details of the environmental objectives, performance criteria, monitoring, reporting, corrective action, responsibility and timing.

The person taking the action must not commence the action unless the **Minister** has approved the Environmental Management Plan in writing. The approved Environmental Management Plan must be implemented

General

8. Within 20 days after the **commencement** of the action, the person taking the action must advise the **Department** in writing of the actual date of **commencement**.
9. The person taking the action must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval, including measures taken to implement the management plans required by this approval, and make them available upon request to the **Department**. Such records may be subject to audit by the **Department** or an independent auditor in accordance with section 458 of the **EPBC Act**, or used to verify compliance with the conditions of approval. Summaries of audits will be posted on the **Department's** website. The results of audits may also be publicised through the general media.
10. Within three months of every 12 month anniversary of the **commencement** of the action, the person taking the action must publish a report on its website addressing compliance with each of the conditions of this approval, including implementation of any management plans as specified in the conditions. Documentary evidence providing proof of the date of publication and non-compliance with any of the conditions of this approval must be provided to the **Department** at the same time as the compliance report is published.

11. Upon the direction of the **Minister**, the person taking the action must ensure that an independent audit of compliance with the conditions of approval is conducted and a report submitted to the **Minister**. The independent auditor must be approved by the **Minister** prior to the commencement of the audit. Audit criteria must be agreed to by the **Minister** and the audit report must address the criteria to the satisfaction of the **Minister**.

12. The person taking the action may choose to revise a Management Plan approved by the **Minister** under conditions 3, 4, 6 and 7 without submitting it for approval under section 143A of the **EPBC Act**, if the taking of the action in accordance with the revised plan would not be likely to have a **new or increased impact**. If the person taking the action makes this choice it must:

- i. Notify the **Department** in writing that the approved plan has been revised and provide the **Department** with an electronic copy of the revised plan;
- ii. Implement the revised plan from the date that the plan is submitted to the **Department**; and
- iii. For the life of this approval, maintain a record of the reasons the person taking the action considers that taking the action in accordance with the revised plan would not be likely to have a **new or increased impact**.

13. The person taking the action may revoke their choice under condition 12 at any time by notice to the **Department**. If the person taking the action revokes the choice to implement a revised plan without approval under section 143A of the **EPBC Act**, the plan approved by the **Minister** must be implemented

14. Condition 12 does not apply if the revisions to the approved plan include changes to environmental offsets provided under the plan in relation to a matter protected by a controlling provision for the action, unless otherwise agreed in writing by the **Minister**. This does not otherwise limit the circumstances in which the taking of the action in accordance with a revised plan would, or would not, be likely to have **new or increased impacts**.

15. If the **Minister** gives a notice to the person taking the action that the **Minister** is satisfied that the taking of the action in accordance with the revised plan would be likely to have a **new or increased impact**, then:

- i. Condition 12 does not apply, or ceases to apply, in relation to the revised plan; and
- ii. The person taking the action must implement the plan approved by the **Minister**.

To avoid any doubt, this condition does not affect any operation of conditions 12, 13 and 14 in the period before the day the notice is given.

At the time of giving the notice the **Minister** may also notify that for a specified period of time that condition 12 does not apply for one or more specified plans required under the approval.

16. Conditions 12, 13, 14 and 15 are not intended to limit the operation of section 143A of the **EPBC Act** which allows the person taking the action to submit a revised plan to the **Minister** for approval.

17. If, at any time after 5 years from the date of this approval, the person taking the action has not substantially **commenced** the action, then the person taking the action must not substantially **commence** the action without the written agreement of the **Minister**.

18. Unless otherwise agreed to in writing by the **Minister**, the person taking the action must publish all management plans referred to in these conditions of approval on its website. Each management plan must be published on the website within one month of being approved by the **Minister** or submitted under condition 12.

Definitions:

Commence(d)/commencement: The clearing of vegetation or construction of any infrastructure, excluding fences and signage, associated with the proposed action.

Department: The Australian Government Department or any other agency administering the *Environment Protection and Biodiversity Conservation Act 1999* (Cth) from time to time.

Emergency: a serious, unexpected, or dangerous situation requiring immediate action.

Environmental Management Plan Guidelines (2014): the *Environmental Management Plan Guidelines, Commonwealth of Australia 2014*, or subsequent revision.

<http://environment.gov.au/epbc/publications/environmental-management-plan-guidelines>

EPBC Act: the *Environment Protection and Biodiversity Conservation Act 1999* (Cth).

EPBC Act Environmental Offsets Policy (2012): the *Environment Protection and Biodiversity Conservation Act 1999* Environmental Offsets Policy (October 2012), or subsequent revision, including the Offset Assessment Guide.

Koala habitat: forest or woodland with two or more **known koala food tree species**, or one food tree species that alone accounts for >50% of the vegetation in the relevant strata, as described in *EPBC Act referral guidelines for the vulnerable koala (combined populations of Qld, NSW and the ACT)*. Commonwealth of Australia, 2014.

Known koala food tree species: species of trees whose leaves are consumed by koalas as agreed by the **Minister** or defined in the following webpage:

www.ehp.qld.gov.au/wildlife/koalas/koala-ecology.html.

Legally secured: to secure a covenant or similar legal agreement in relation to a site, to provide enduring protection for the site against development incompatible with conservation.

Minister: the Minister administering the *Environment Protection and Biodiversity Conservation Act 1999* (Cth) and includes a delegate of that Minister.

New or increased impact: A new or increased impact on any matter protected by the controlling provisions for the action, when compared to the plan that has been approved by the **Minister**.

Offset Strategy: *Environmental Offset Strategy*, dated 31 January 2018, prepared by Saunders Havill Group.

Project Site: The site at 580—582 Upper Ormeau Road, Kingsholme, Queensland (Lot 1 on RP164904 and Lot 43 on SP243239) designated as 'Project Site' in Appendix A.



Legend

-  Site DCDB
-  Project Site

Figure 2 Site Aerial

File ref: 8354 E Figure 2 Aerial B
Date: 21/07/2017
Project: EPBC

0 50 100 200 300 400 m
Scale (A4): 1:9,000 (GDA 1994 MGA Z56)



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Appendix B

SHG camera trapping images



Bush Rat



Long-nosed Bandicoot



Lace Monitor



Echidna



Emerald Dove



Australian Brush Turkey



Red-necked Wallaby



Long-nosed Bandicoot



Brush-tail Possum



Lace Monitor



European Red Fox



Koala



Swamp Wallaby



Koala



Motorbike



European Red Fox



European Red Fox



European Red Fox



Common Brushtail Possum



European Red Fox

Appendix C

Non-native Vertebrate Pest Monitoring Reports Year 4 – Biodiversity Australia

LEADING THE WAY
IN ENVIRONMENTAL
MANAGEMENT

BORAL

ORMEAU QUARRY- FERAL ANIMAL
MONITORING PROGRAM

February 2024



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Document Control Page

Version Control

Version	Purpose	Author	Reviewed / approved by	Date
0.1	Draft	Jessica Hobart	Tiffany Sieuwerts	04/03/2024
1.0	Final	Jessica Hobart	Steve Noy	21/03/2024

Distribution Control

Copy	Purpose	Method	Issued to:	Name	Date
1.0	Issue	Electronic	Boral	Matthew Allan	21/03/2024

Project Number: BSQ6312

Our Document Reference: BSQ6312-BVP-REP-Boral-OrmeauQuarryMonitoring-rev1.0

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1. Introduction

Biodiversity Australia Pty Ltd (Bio Aus) was contracted by Boral to conduct Vertebrate Pest Management at Ormeau Quarry's offset area. Biodiversity Australia was engaged to assess and manage wild dogs (*Canis lupus familiaris*) within the site. As such, a monitoring program was undertaken during which, the monitoring of wild dogs was the focus of feral animal control. The report contains the methodology and results of these works.

1.1 Objectives

The objectives of the project were to:

- Establish the approximate size of the feral canid populations within Ormeau Quarry's offset area; and
- Provide data-based recommendations for future pest animal management at Ormeau Quarry's offset area.

1.2 Site Location and Description

The Ormeau Quarry offset is located on Upper Ormeau Road, Ormeau, approximately 10km from Pimpama township (Figure 1). Boral's offset area for the Ormeau Quarry is approximately 38 hectares. The site is surrounded by state forest, with established housing to the east. Tamborine National Park lies to the southwest of the site. Monitoring efforts were focused within areas stipulated within *Vertebrate Pest Management Plan (2021)*.

The site itself consist of steep inclines and escarpments, with open eucalypt woodland and forests dominating. The site is consistent with the state mapping, with the following RE's present;

- RE 12.11.3 (Least Concern): Eucalyptus siderophloia, E. propinqua +/- E. microcorys, Lophostemon confertus, Corymbia intermedia, E. acmenoides open forest on metamorphics +/- interbedded volcanics
- RE 12.11.5 (Least Concern): Corymbia citriodora subsp. variegata woodland to open forest +/- Eucalyptus siderophloia/E. crebra, E. carnea, E. acmenoides, E. propinqua on metamorphics +/- interbedded volcanics
- RE 12.11.24 (Least Concern): Eucalyptus carnea or E. tindaliae, Corymbia intermedia +/- E. siderophloia or E. crebra woodland on metamorphics +/- interbedded volcanics

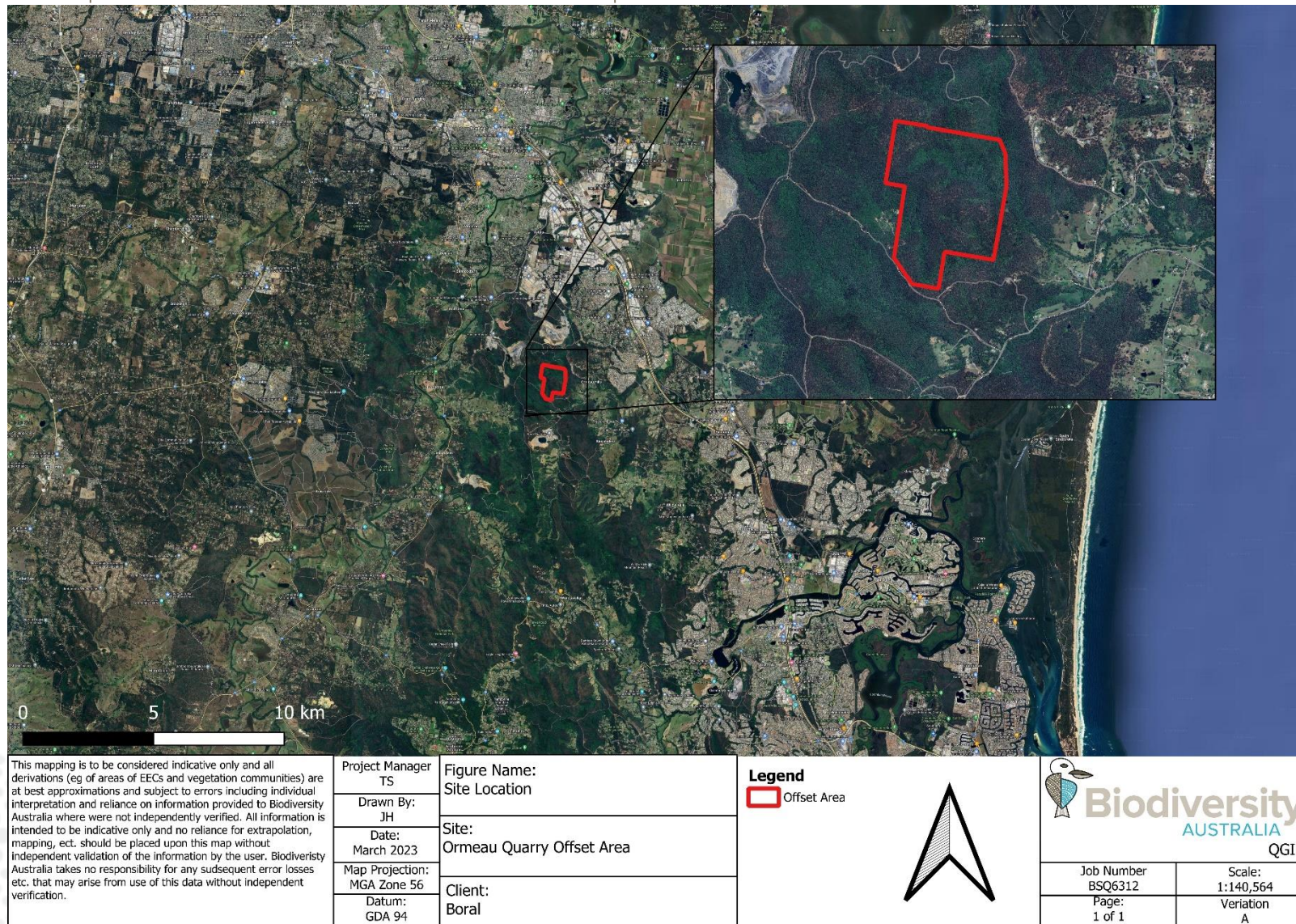


Figure 1 - Site Location

1.3 Target Species

1.3.1 Wild dog (*Canis lupus familiaris*)

The term wild dog encapsulates any wild-living dogs including dingoes, feral dogs and hybrids. Dingoes were initially brought to Australia by Asian seafarers, approximately 4000 years ago (Glen et al., 2007). Domestic dogs then arrived in Australia as domestic pets of European settlers. It was from here that domestic dogs escaped to or were released into the wild. It is not possible to distinguish between pure dingoes and hybrids purely by colour or appearance. To determine this, DNA tests can be conducted using hair follicles or the ear tips of humanely killed wild dogs.

Wild dogs cause significant damage to the agricultural industry through their predation on livestock and are a restricted invasive animal under the *Biosecurity Act 2014*. They preferentially feed on small and medium-sized mammals, including native mice, dunnarts, bandicoots and wallabies, but they will prey upon a variety of native and exotic animals, including insects, kangaroos and livestock. They are implicated in the decline of several native species. As opportunistic feeders they may also enter sites where human activity has made food easily available, such as rubbish disposal areas.

Control methods for wild dogs include baiting, trapping, exclusion fencing, shooting and the use of guard animals. Donkeys and alpacas are often used to ward off wild dogs on cattle or sheep farms.

2. Methodology

Passive infrared monitoring cameras were used to obtain baseline data on levels of pest animal abundance, distribution, and activity throughout the Ormeau Quarry Offset site. Monitoring cameras were placed along within the same vicinity as 2023 camera monitoring activities, including along tracks and high traffic areas. Camera traps were utilised for 14 consecutive days at five locations. Passive infrared (PIR) camera traps were installed in selected areas, mapped using a GIS system, and given a unique identifier (Figure 2).

Cameras were installed on the 15th of February 2024 and left in place for fourteen (14) days. Camera outputs were formally assessed at the end of the monitoring period, and the following data collected:

- Species;
- Number of animals seen;
- Sex of animals (where this could be determined);
- Direction of travel and activity observed;
- Camera trap number; and
- Time of day.

Data collected during the monitoring provided insight on wild dog travel routes and indicated activity levels will be used to assist in trap placement and key areas for control. Opportunistic data on other feral animal species, particularly foxes and feral cats collected throughout the data analysis component of camera monitoring will also be used to contribute to understanding of feral animal activity levels both prior to and following control efforts.

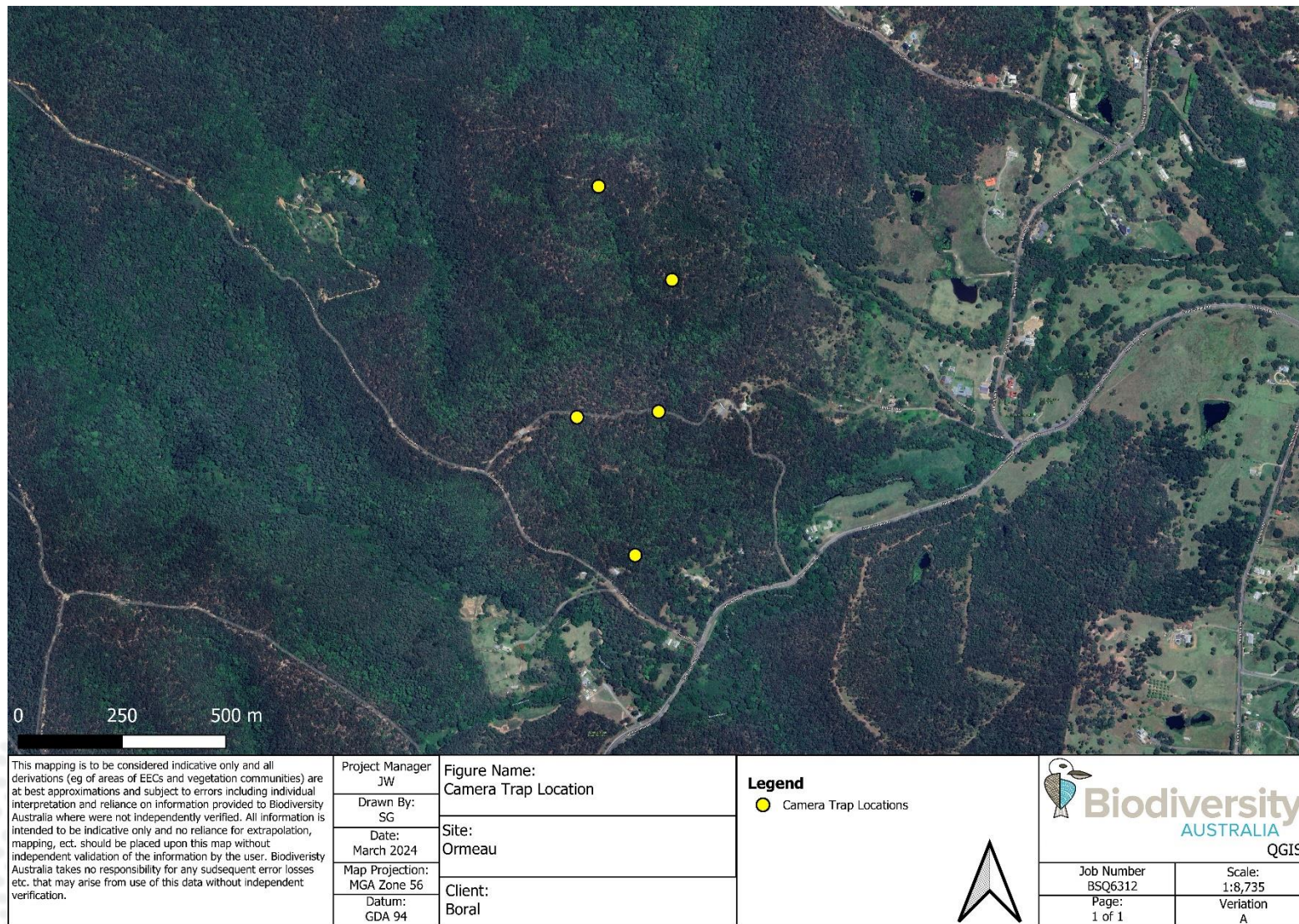


Figure 2 - Camera Trap Locations

3. Results

Cameras were utilised for 14 consecutive days (15th February – 28th February 2024) at five different locations. Table 1 displays all fauna captured within each camera trap. Appendix 1 displays some Fauna that were captured.

No feral dogs or cats were observed throughout the monitoring period, with the European Red Fox (*Vulpes vulpes*) being the only feral species observed.

Opportunistic monitoring of native animals was also captured; Red-necked Wallaby (*Macropus rufogriseus*) (19), and Australian Brush-turkey (*Alectura lathamii*) (1).

Table 1: Camera monitoring results

Days	Camera 1 (ID: 3.01)	Camera 2 (ID: 3.02)	Camera 3 (ID: 3.03)	Camera 4 (ID: 3.04)	Camera 5 (ID: 3.05)
	-27.808120727539062, 153.2247888555829	-27.8111924, 153.2260508	-27.8052403, 153.226953	-27.8032194, 153.2251578	-27.8080883, 153.2266251
1	Nil	1 Red Fox	Nil	Nil	Nil
2	Nil	1 Red Fox	Nil	Nil	Nil
3	Nil	Nil	Nil	Nil	Nil
4	Nil	Nil	1 Red-necked Wallaby	Nil	2 Red-necked Wallaby
5	1 Red-necked Wallaby	1 Red-necked Wallaby	1 Red-necked Wallaby	Nil	Nil
6	Nil	Nil	Nil	Nil	Nil
7	1 Red-necked Wallaby	1 Red-necked Wallaby	Nil	1 Unidentified animal	1 Red-necked Wallaby
8	Nil	Nil	Nil	Nil	Nil
9	Nil	Nil	Nil	Nil	1 Red-necked Wallaby
10	Nil	1 Brush Turkey	Nil	Nil	1 Red-necked Wallaby
11	Nil	Nil	Nil	Nil	Nil
12	Nil	1 Red-necked Wallaby	Nil	Nil	1 Red Fox 4 Red-necked Wallaby (1 with Joey)
13	Nil	1 Brush Turkey	Nil	Nil	1 Red-necked Wallaby
14	1 Red-necked Wallaby	Nil	Nil	Nil	1 Red-necked Wallaby 1 Swamp Wallaby

4. Discussion

The 2024 camera locations followed the 2023 camera locations that were agreed upon, due to inaccessibility to large portions of the offset area. The northern portion of the offset area was inaccessible due to no fire trails, tracks or bridges for access. The Biodiversity Australia Senior Pest Officer followed the Management Plan where possible, however final locations as per Fig 2 were decided upon based on inaccessibility restraints and suggestions from the Quarry Environmental Officer.

Monitoring site locations generated a different composition of feral and native animals. Camera 4 lacked animal presence, other than a single unidentifiable photo. Camera 2 and 5 presented Red Fox observations, being particularly abundant around Camera 2. Camera 5 showed the most animal presence, with thirteen (13) fauna observations in total. No feral cats or dogs were captured throughout this monitoring period.

5. Recommendations

For consistency and to address trapping success it is recommended to follow the camera locations as per Fig 2 above. However, if accessibility improves locating a camera in the south-eastern area as per the 2022 proposed camera sites in the Vertebrate Pest Management Plans would be suggested. This includes the installation of fire trails and tracks, and a bridge over waterways.

6. Appendix 1 – Camera Trap Photos

Please note the full set of monitoring photos are available upon request.

CAMERA 1



Photo 1 - Red-necked Wallaby

CAMERA 2



Photo 2 - European Red Fox



Photo 3 - Australian Brush-turkey

CAMERA 3

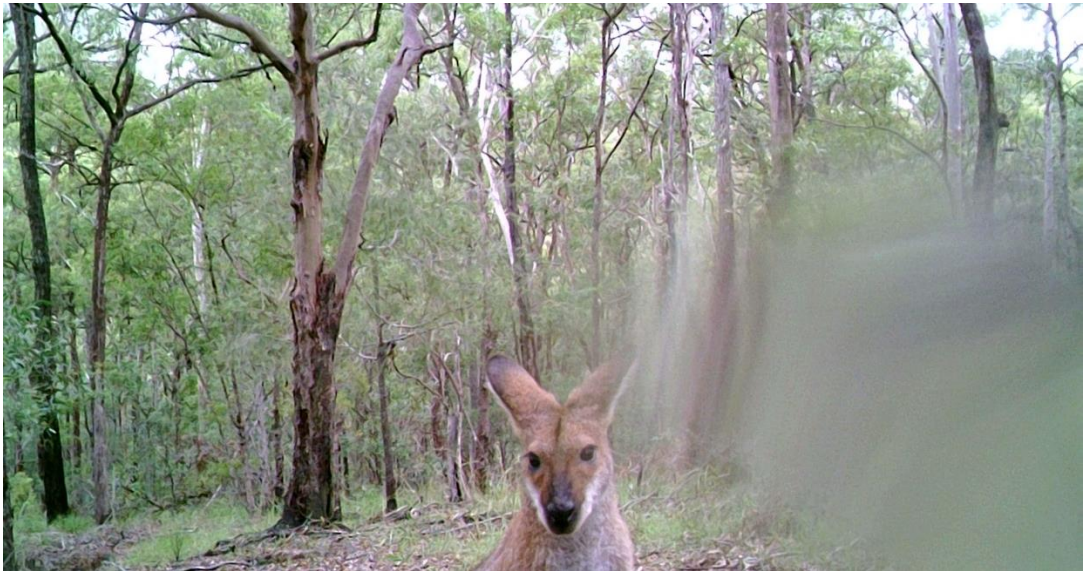


Photo 4 - Red-necked Wallaby

CAMERA 4



Photo 5 - Unidentified Fauna

CAMERA 5



Photo 6 - European Red Fox



Photo 7 - Red-necked Wallabies



Photo 8 - Swamp Wallaby

LEADING THE WAY
IN ENVIRONMENTAL
MANAGEMENT



Boral

Ormeau Quarry Offset - Feral
Animal Monitoring Program
February 2025

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Document Control Page

Version Control

Version	Purpose	Author	Reviewed / approved by	Date
0.1	Draft	Bronte Jack	Jessica Hobart	03/02/2025
0.2	Draft	Jessica Hobart	Daniel Joyce	06/02/2025
1.0	Final	Tiffany Noy	Steve Noy	06/02/2024

Distribution Control

Copy	Purpose	Method	Issued to:	Name	Date
1.0	Issue	Electronic	Boral	Matthew Allan	06/02/2025

Project Number: BSQ6883

Our Document Reference: BSQ6883-BVP-REP-Boral-OrmeauQuarryMonitoring-rev1.0

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1. Introduction

Biodiversity Australia Pty Ltd (Bio Aus) was contracted by Boral (The Client) to conduct Vertebrate Pest Management at Ormeau Quarry's Offset Area (The Site). Biodiversity Australia was engaged to undertake these works in line with the Saunders Havill Group *Vertebrate Pest Management Plan* (VPMP) (2021). As such, a monitoring program was undertaken to determine the feral/unwanted species present within the offset area. This program is conducted on a yearly basis, with 2025 being the third year of works.

A total of five (5) Passive infrared (PIR) cameras were installed within January 2025, as per the VPMP. Due to access issues in the north and west of The Site, three (3) of these PIR cameras were installed outside of The Site. Access issues include damage/obstructions to tracks and bridges present within The Site, due to major storms that have occurred within Southeast Queensland (SEQ).

1.1 Objectives

For the offset area to remain compliant, the projects objective is to assess three target species and monitor their presence within The Site. The VPMP rates them from low to high priority, as below:

- High Priority – Feral and unwanted domestic dogs
- Medium Priority – Red Foxes
- Low Priority – Feral Cats

1.2 Site Location and Description

The Site is located on Upper Ormeau Road, Ormeau, approximately 10km from Pimpama township (Figure 1). Boral's offset area for The Site is approximately 38 hectares. The Site is surrounded by state forest, with established housing to the east. Tamborine National Park lies to the southwest of the site. Monitoring efforts were focused within areas stipulated within *Vertebrate Pest Management Plan* (2021).

The Site itself consist of steep inclines and escarpments, with open eucalypt woodland and forests dominating. The Site is consistent with the state mapping, which is displayed in Table 1.

Table 1: Regional Ecosystems Present Onsite

RE	Description
RE 12.11.3 (Least Concern)	Eucalyptus siderophloia, E. propinqua +/- E. microcorys, Lophostemon confertus, Corymbia intermedia, E. acmenoides open forest on metamorphics +/- interbedded volcanics.
RE 12.11.5 (Least Concern)	Corymbia citriodora subsp. variegata woodland to open forest +/- Eucalyptus siderophloia/E. crebra, E. carnea, E. acmenoides, E. propinqua on metamorphics +/- interbedded volcanics.
RE 12.11.24 (Least Concern)	Eucalyptus carnea or E. tindaliae, Corymbia intermedia +/- E. siderophloia or E. crebra woodland on metamorphics +/- interbedded volcanics.



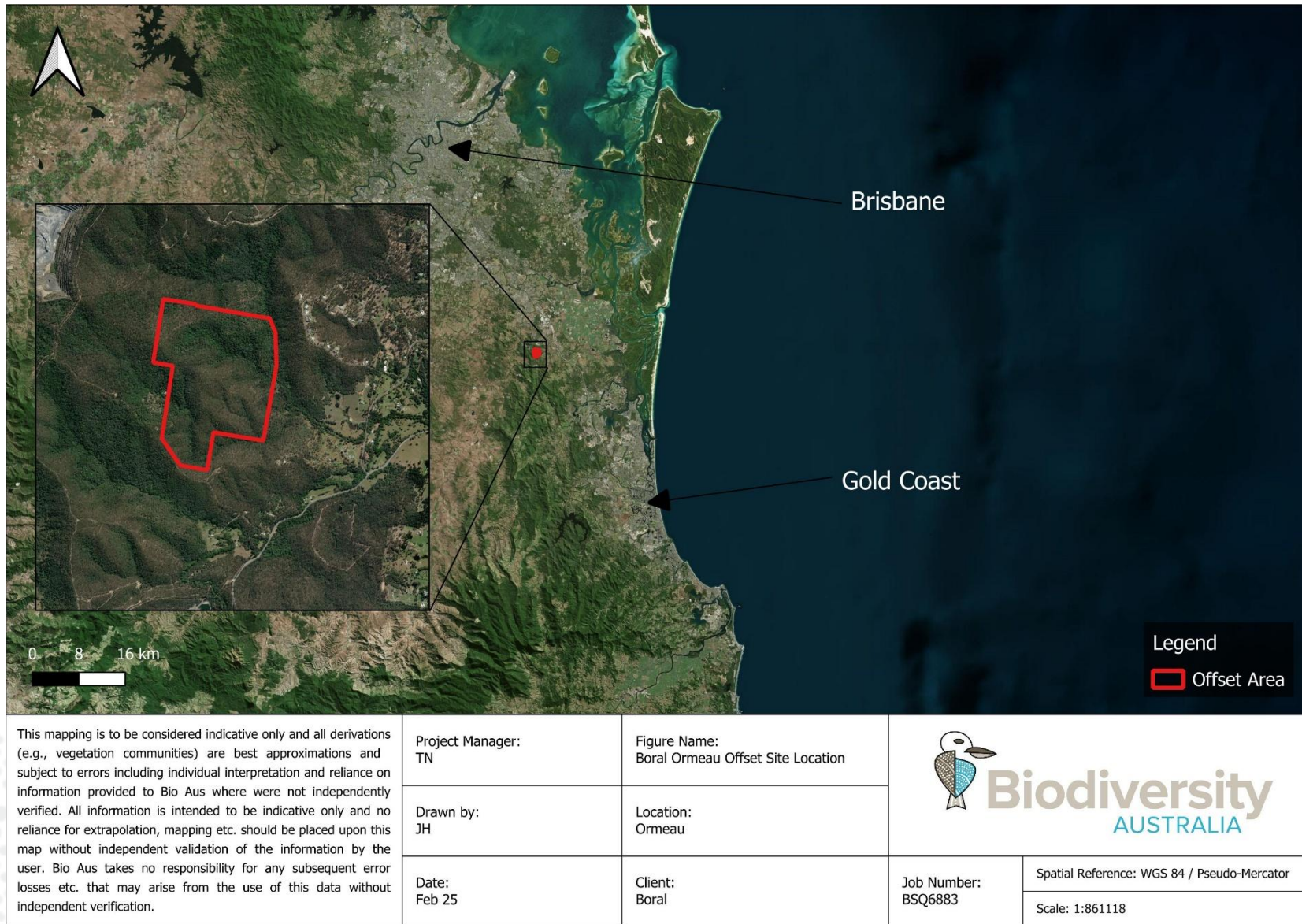


Figure 1: Offset Area Location



1.3 Target Species

As per the VPMP, three target species are priority within the Site, to monitor and determine presence, as detailed below.

1.3.1 High Priority - Wild & Unwanted Domestic Dogs (*Canis lupus familiaris*)

The term wild dog encapsulates any wild-living dogs including dingoes, feral dogs and hybrids. Dingoes were initially brought to Australia by Asian seafarers, approximately 4000 years ago. Domestic dogs then arrived in Australia as domestic pets of European settlers. It was from here that domestic dogs escaped to or were released into the wild. It is not possible to distinguish between pure dingoes and hybrids purely by colour or appearance. To determine this, DNA tests can be conducted using hair follicles or the ear tips of humanely killed wild dogs.

Wild dogs cause significant damage to the agricultural industry through their predation on livestock and are a restricted invasive animal under the *Biosecurity Act 2014*. They preferentially feed on small and medium-sized mammals, including native mice, dunnarts, bandicoots and wallabies, but they will prey upon a variety of native and exotic animals, including insects, kangaroos and livestock. They are implicated in the decline of several native species. As opportunistic feeders they may also enter sites where human activity has made food easily available, such as rubbish disposal areas.

Unwanted Domestic Dogs refers to all dogs in which are owned and registered house pets. Due to poor, damaged or ill-equipped fencing, domestic dogs are often found roaming within areas close to their residence. Although domesticated, these dogs still cause significant damage to native wildlife, similar to wild dogs.

1.3.2 Medium Priority – Red Fox (*Vulpes vulpes*)

Vulpes vulpes (Red fox) is an active canid with a reddish-brown coat and white underparts except for a black tipped nose and black lower legs. Depending on geographic distribution, they can vary in size from 45 to 90 cm in body length and from three to 14 kg in body mass. Red foxes are one of the largest land dwelling, carnivorous mammals in Australia. They are adapted to a wide variety of habitats from deserts to urban environments.

Red foxes in Queensland are primarily carnivorous scavengers and predators, however, are also opportunistic feeders and can consume an enormous variety of animal and plant material. Foxes will consume rabbits, rodents, frogs, birds, insects, fruit, vegetables and grain.

Red foxes will predate upon livestock, mainly lambs and goat kids, and native animals. These pest animals

1.3.3 Low Priority – Feral Cats (*Felis catus*)

Feral cats (*Felis catus*) differ little in appearance from their domestic counterparts, however when in good condition feral cats have greater muscle development, particularly around the head, neck and shoulders. Coat colour is not uniform either ranging from ginger, tabby, tortoiseshell, grey and black. Coat colour is selected by the habitat, with populations trending towards those coat colours providing the greatest camouflage within the habitat.

These cats are mostly nocturnal with peak hunting activity occurring at dusk and dawn. Eyeshine from this species is a distinctive green colour making it easily distinguishable from other species of this size. During the day they will take refuge within hollow logs, dense clumps of grass, piles of debris, rabbit burrows and hollow limbs in standing trees.

Feral cats have expanded beyond areas of early colonisation and since the 19th and 20th centuries they were released on farms to combat plague proportions of European rabbits. Feral cats now have a cosmopolitan distribution across Australia and thrive under all climatic conditions.



Studies on the species diets show that 375 feral cats on Maquaire Island can consume 56 000 European rabbits and 58 000 sea birds per year and Legge et al (2020) state that feral cats are implicated in the extinction of 25 mammal species and causing population declines in many other species including *Pezoporus occidentalis* (night parrot) and *Psephotellus pulcherrimus* (paradise parrot).

2. Methodology

In accordance with the VPMP, five (5) Passive infrared (PIR) cameras were installed across The Site for eighteen (18) consecutive days (10th January – 28th January 2025) by a suitably qualified Senior vertebrate pest officer. In line with the VPMP, camera traps were installed within the same vicinity as February 2024 and 2023, to ensure consistency with the data. PIR Camera trap locations were mapped using a GIS system, and given an identification number (Figure 2). Locations were set along established dirt tracks, animal tracks, edges of vegetation and waterways.

Camera outputs were formally assessed at the end of the monitoring period, and the following data collected:

- Species;
- Number of animals seen;
- Sex of animals (where this could be determined);
- Direction of travel and activity observed;
- Camera trap number; and
- Time of day.

Data collected during the monitoring provides insight on pest animal travel routes and indicated activity that the offset area is utilised for. Opportunistic data on other feral animal species and native species is collected throughout the data analysis, will also be used to contribute to understanding of feral animal activity levels both prior to and following control efforts.

3. Limitations

In accordance with the VPMP, camera location consistency is required, in order to analyse the movement patterns and activities of the targeted pest species each year compared to the last year. Inaccessibility has been an ongoing issue with The Site, due to inaccessible tracks and bridges, and major storm damage to The Site. The camera trap locations used for the 2025 monitoring, followed the 2023 and 2024 camera locations, in which were agreed upon by The Client. The Biodiversity Australia Senior Vertebrate Pest Officer followed the VPMP where possible, however final locations as per Figure 2, were decided upon based on inaccessibility restraints and agreements made with the Quarry Environmental Officer.



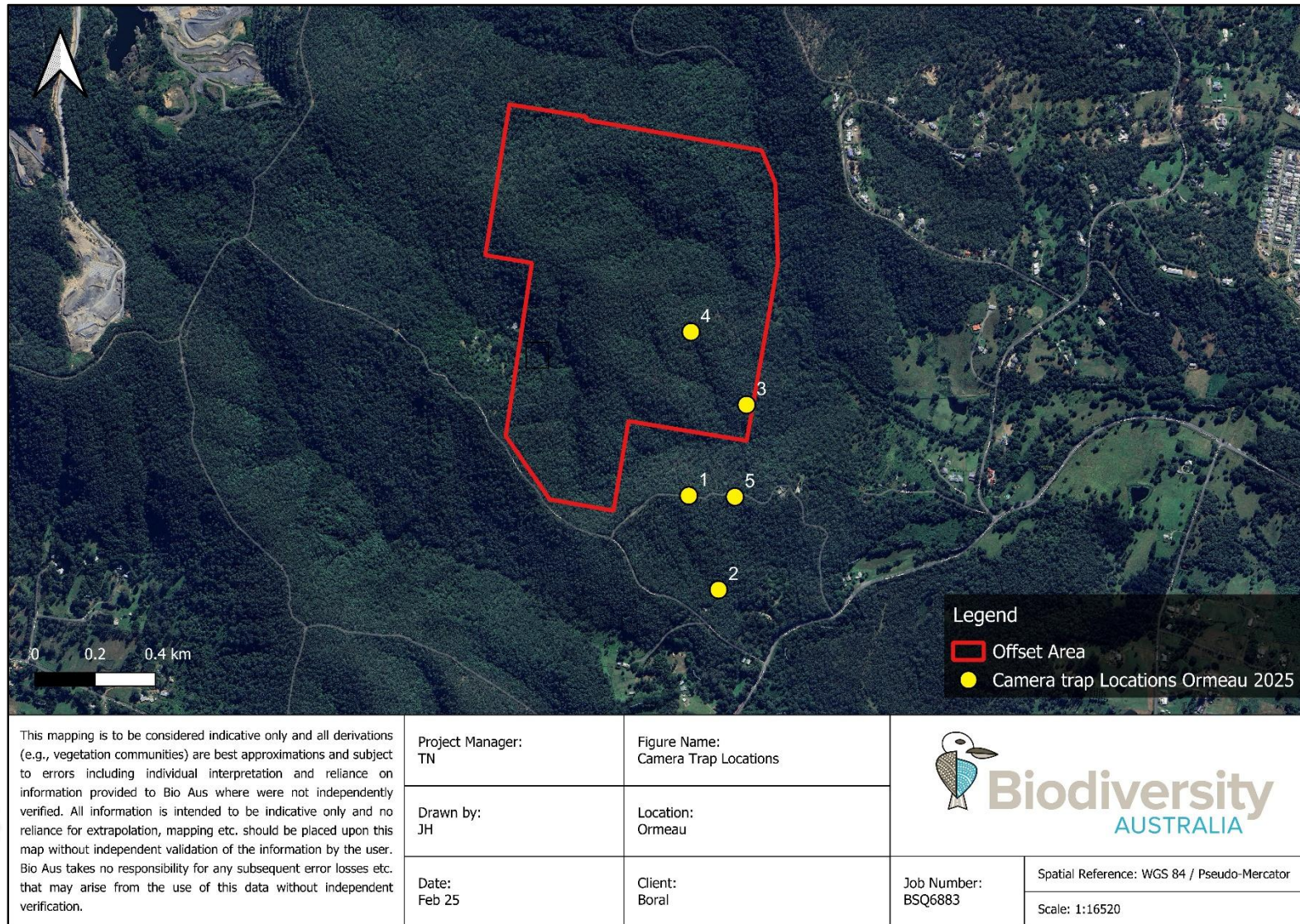


Figure 2: Camera Trap Locations in 2025



4. Results

A total of two (2) of the targeted species were observed throughout the 2025 camera monitoring program for The Site. These results are displayed in Table 2.

Table 2: Pest Animal Monitoring Results (Pests Only)

Day	Time of Day (Day or Night)	Camera Trap #	Species	Number Observed	Sex (if determined)	Behaviour Observed
3	Night	2	Red Fox	1	-	Traversing on Track
7	Night	2	Domestic Dog	1	Female	Traversing on Track
7	Night	2	Red Fox	2	-	Traversing on Track
8	Day	2	Domestic Dog	1	Female	Traversing on Track
11	Night	2	Domestic Dog	1	Female	Traversing on Track
11	Night	2	Red Fox	1	-	Traversing on Track
12	Night	2	Red Fox	1	-	Traversing on Track/Sniffing Scents
14	Night	2	Red Fox	1	-	Traversing on Track
17	Night	5	Red Fox	1	-	Traversing on Track

4.1 Wild and Domestic Dogs

Within the 2025 Ormeau Offset Area Monitoring program, one (1) domestic dog was observed within The Site. This dog was confirmed domesticated, due to its breed, appearance and the presence of a collar (Appendix 7.1). It is unknown however if this dog is currently owned or missing/abandoned. As detailed in Table 2, this individual was caught on Camera 2, a total of three days, two of which are consecutive. Compared to the baseline survey and previous two years of Biodiversity Australia conducting monitoring, this is the first dog to be captured via monitoring program within The Site. Tracks and signs (e.g. scat) have been observed in previous years and within the baseline data (Saunders Havill Group 2021).



4.2 Red Foxes

Within the 2025 Ormeau Offset Area Monitoring program, seven (7) red foxes were observed within The Site (Appendix 7.2). As detailed in Table 2, these individuals were predominately sighted on camera trap 2, with one sighting on camera trap 5. All behaviour appeared to be traversing the tracks, along with some scenting (sniffing track and air). Compared to 2024 pest monitoring results, 2025 captured an additional four (4) sightings of red foxes within the offset area (Figure 3). This could indicate a potential increase of the red fox population in The Site. This potential increase in the population is likely due to the wet weather SEQ has been experiencing, which would in turn increase the native prey species that the red fox predate on, including bandicoot and wallaby species. Both years had Red Fox sightings at Camera Traps 2 and 5, with Camera Trap 2 being the most abundant both 2024 and 2025 (Figure 3).

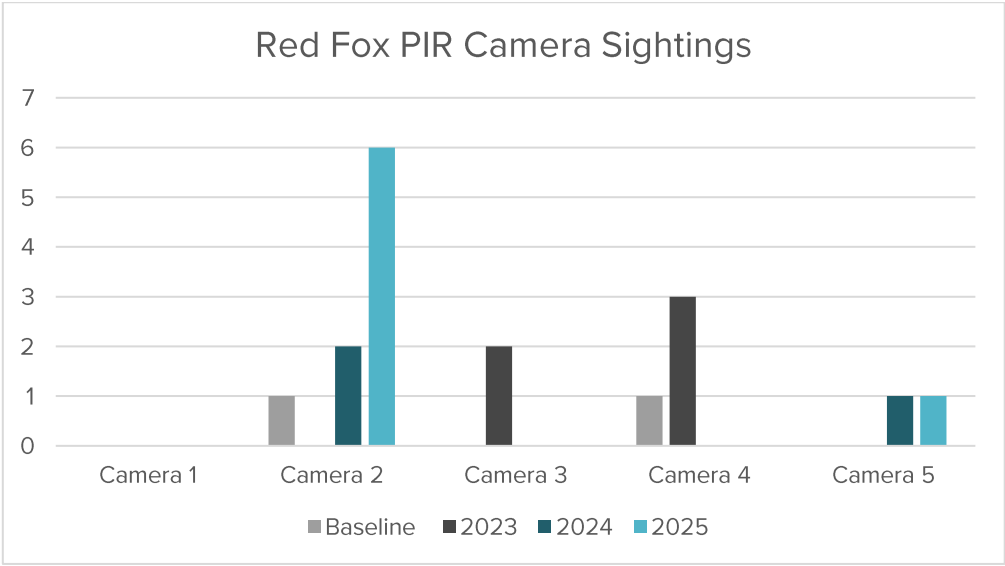


Figure 3: Red Fox Observations to Date

4.3 Feral Cats

The 2025 Ormeau Offset Area Monitoring program; no Feral Cats were observed within The Site. To date, this species has not been observed within The Site.

4.4 Opportunistic Sightings

No non-target pest species as per the VPMP were observed within The Site. Opportunistic sightings of native animals were captured throughout the camera trapping program (Appendix 7.3). A total of fourteen (14) Red-necked Wallabies (*Macropus rufogriseus*) and Swamp Wallabies (*Wallabia bicolor*) (2) were observed. Appendix 7.3 displays some of these captured sightings.



5. Recommendations

Recommendations of future works for The Site are detailed in Table 3, which coincide with management actions as per the VPMP.

Action Item	Recommendation
Ormeau Offset Area Tracks & Fences	<ul style="list-style-type: none"> Biodiversity Australia recommend that track/bridge issues and damages within the Ormeau Offset Area are addressed to allow for original camera trapping locations to recommence as per the Vertebrate Pest Management Plan (2021). A Fence Audit is recommended, to determine any holes, or damages to the Ormeau Offset Area Fencing, which would allow the movements of the target pest species into the Offset Area.
Wild & Unwanted Domesticated Dog	<ul style="list-style-type: none"> It is recommended that the continuation of camera monitoring is conducted, to monitor if the population of wild/unwanted domesticated dogs increases in coming years. It is recommended that these works occur outside of wet weather, so there is an increased chance of capturing any wild dogs or unwanted domesticated dogs traversing or utilising Ormeau Offset Area. A trapping program for the individual unwanted domesticated dog is detailed in the Red Fox section below, as these two programs will run in conjunction.
Red Fox	<ul style="list-style-type: none"> Biodiversity Australia recommends that a trapping program targeting red foxes occurs, to decrease the population of the pest species presence onsite, and therefore its effect to native wildlife within the Ormeau Offset Area. <ul style="list-style-type: none"> Within this program, a single dog cage trap will be installed also, in an attempt to trap the single unwanted domestic dog that is present onsite.
Feral Cat	<ul style="list-style-type: none"> Biodiversity Australia recommends that a continuation of camera monitoring is conducted, to monitor any new potential Feral Cats that may begin to utilise Ormeau Offset Area.



6. References

Saunders Havill Group (2021), Vertebrate Pest Management Plan – Offset Management Plan, Saunders Havill Group for Boral Resources Pty Ltd, February 2025.

Legg, S Woinarski, J. C. Z Dickman, C.R Doherty, T.S McGregor, H Murphy, B.P (2020) Cat ecology, impacts and management in Australia. Journal of Wildlife Research, vol 47, issue 8, doi: https://doi.org/10.1071/WRv47n8_ED

Queensland Department of Agriculture and Fisheries (2023) European fox: *Vulpes vulpes*. Access 11 July 2024. Available at: https://www.daf.qld.gov.au/_data/assets/pdf_file/0019/73810/european-red-fox.pdf

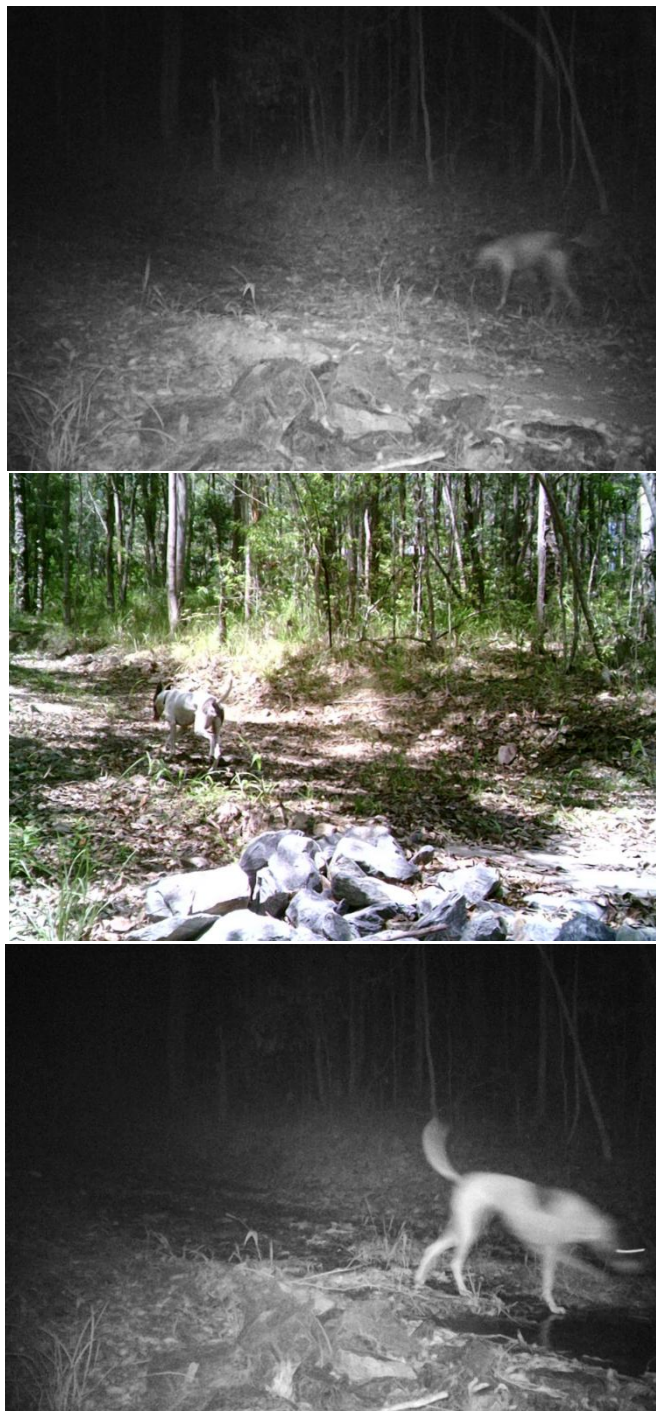
Queensland Department of Agriculture and Fisheries (2023) Feral cat: *Felis catus*. Access 11 July 2024. Available at: https://www.daf.qld.gov.au/_data/assets/pdf_file/0004/61987/feral-cat.pdf

Queensland Government (2024) Wild Dog | Business Queensland. Accessed 11 July 2024. Available at: <https://www.business.qld.gov.au/industries/farms-fishing-forestry/agriculture/biosecurity/animals/invasive/restricted/wild-dog>



7. Appendix

7.1 A-1: Unwanted Domesticated Dog



7.2 A-2: Red Fox (Camera 2)



7.3 A-3: Opportunistic Sightings (Native Species)



Red-necked Wallaby



Photo 7 - Red-necked Wallabies



Appendix D

Weed Management Record Sheets Year 4 – Bushcare Services

Bushcare Services – Daily Record Sheet v 1.3

Client:	<i>Boral</i>	Project:	<i>Ormeau EPBC Weed Control Aug 24</i>	Time Allocated:	
Date of Work:	<i>28/08/24</i>	Team Size:	<i>4</i>	Supervisor:	<i>Jack Thatcher</i>

Start Time:	<i>6:30</i>	Finish Time:	<i>15:30</i>	Total Working Hours:	<i>34</i>
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(30-minute lunch break is assumed)

Vehicle Rego:	<i>498ZMR</i>
----------------------	---------------

Tasks to Be Undertaken/ Completed							
	Detail Work Area, Output and Outcomes				Output	Units	Time Taken (hours)
1	Hand weed and cut paint lantana and asparagus				1000	M2	34
2							
3							
4							
5							

Team Members / Hours Worked on Site											
	Name	Hours		Name	Hours		Name	Hours		Name	Hours
1	Jack Thatcher	8.5	2	Hayden Stewart	8.5	3	Blaine Williams	8.5	4	Odin Mircic	8.5
5			6			7			8		

WHS – Toolbox Talk					
1	Steep slopes	2	Falling branches	3	Isolated work area
4	Public	5	Rubbish, barbed wire	6	Manual handling

Bushcare Services – Daily Record Sheet v 1.3

Herbicide Use

Application 1:

Equipment Used	Chemicals Used (active ingredient/trade name)			Quantity applied		Rate:	Plants treated	Method
	Active Ingredient		Trade Name	(ml, g, other)				
	<input checked="" type="checkbox"/>	Glyphosate	Weedmaster duo	QTY	1000mL	1:1	Lantana, basket asparagus	CSP
	<input type="checkbox"/>	Other		QTY				
	<input type="checkbox"/>	Dye		QTY				
	<input type="checkbox"/>	Adjuvant		QTY				
Total Volume of mixture (litres):				2L				

Application 2:

Equipment Used	Chemicals Used (active ingredient/trade name)			Quantity applied		Rate:	Plants treated	Method
	Active Ingredient		Trade Name	(ml, g, other)				
	<input type="checkbox"/>	Glyphosate		QTY				
	<input type="checkbox"/>	Other		QTY				
	<input type="checkbox"/>	Dye		QTY				
	<input type="checkbox"/>	Adjuvant		QTY				
Total Volume of mixture (litres):								

Application 3:

Equipment Used	Chemicals Used (active ingredient/trade name)			Quantity applied		Rate:	Plants treated	Method
	Active Ingredient	Trade Name	(ml, g, other)					
	<input type="checkbox"/>	Glyphosate		QTY				
	<input type="checkbox"/>	Other		QTY				
	<input type="checkbox"/>	Dye		QTY				
	<input type="checkbox"/>	Adjuvant		QTY				
Total Volume of mixture (litres):								

Environmental Conditions:

<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Dry	Wind speed (km/hr):	11
<input type="checkbox"/> Overcast	<input checked="" type="checkbox"/> Mild	Wind direction (N, E, S, W):	N
<input type="checkbox"/> Showers	<input type="checkbox"/> Humid	Temperature (°C):	30

Methods: Foliar Spray (FS), Cut Scrape Paint (CSP), Frilling (FR), Cut and Paint (CP), Stem injection (SI)

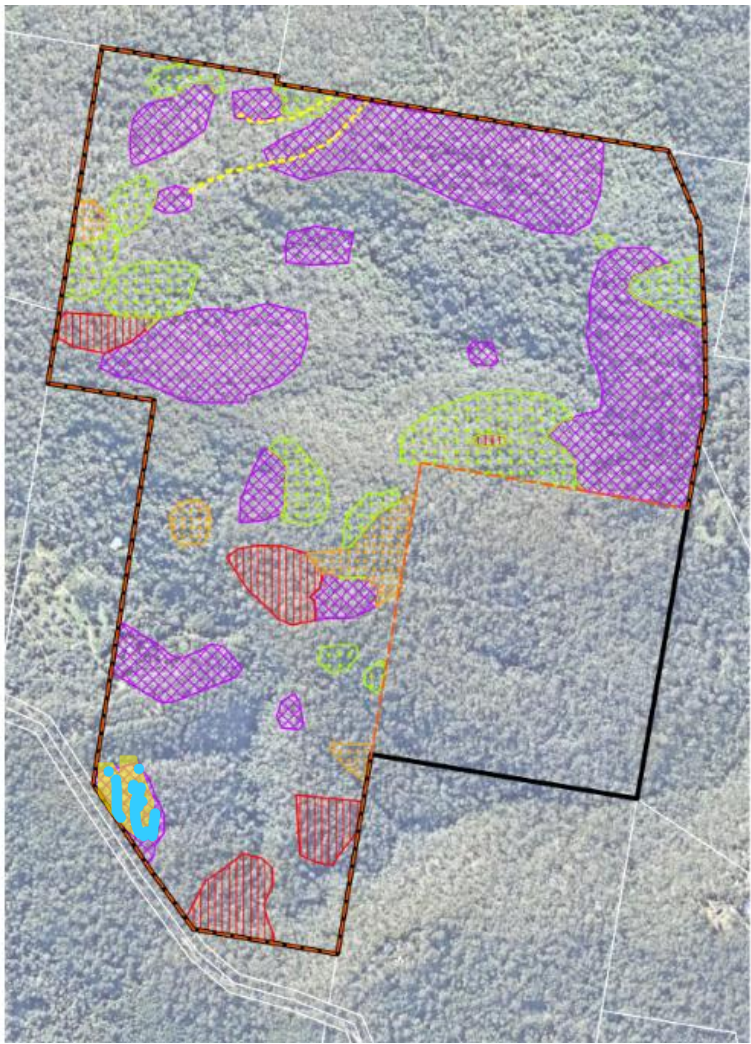
Bushcare Services – Daily Record Sheet v 1.3

Site Notes

Fauna notes: (significant sightings)		
Flora notes:	Flowering:	
	Fruiting:	
	Germinating:	
	Threatened or significant:	
Provide general comments on the work undertaken (constraints, wins etc...)		
Treated dense infestation of lantana and sporadic asparagus with manual removal or cut and paint where applicable		
What should be the focus for next time?		
Continue working through dense lantana infestation		
Any recommendations for the management of the site?		
Are there any site-specific issues that our client should be aware of (detail and add photos if necessary)?		

Bushcare Services – Daily Record Sheet v 1.3

Mud Map:



Legend					
	Foliar Spray		CSP, Fr, Si		Rubbish
	Slashing		Hand Weed		Other
Define Other:					

Bushcare Services – Daily Record Sheet v 1.3

Photo Record

Photo 1 - lantana clumps after treatment



Photo 2 – lantana clumps after treatment



Bushcare Services – Daily Record Sheet v 1.3

Photo 3 - treated asparagus and lantana



Photo 4 -



Bushcare Services – Daily Record Sheet v 1.3

Photo 5 -



Photo 6 -



Bushcare Services – Daily Record Sheet v 1.3


Internal Reporting

Use this section to detail any issues, concerns, wins or requests

Use this section to log access reporting documents
(if any item is ticked yes, an appropriate report must be submitted)

Vehicle Damage:	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Accident / Incident:	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Equipment Maintenance Required:	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Does anything need restocking?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

Supervisor to Sign: This report represents a true and accurate reflection of works undertaken:

	28/08/24
Supervisor Signature	Date

Bushcare Administration to Sign: This report has been checked and approved

Administration Signature	Date

Bushcare Services – Daily Record Sheet v 1.3

Client:	<i>Boral</i>	Project:	<i>Ormeau EPBC Weed Control Aug 24</i>	Time Allocated:	
Date of Work:	<i>29/08/2024</i>	Team Size:	<i>4</i>	Supervisor:	<i>Jack Thatcher</i>

Start Time:	<i>6:30</i>	Finish Time:	<i>15:30</i>	Total Working Hours:	<i>34</i>
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(30-minute lunch break is assumed)

Vehicle Rego:	<i>498ZMR</i>
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Tasks to Be Undertaken/ Completed					
	Detail Work Area, Output and Outcomes		Output	Units	Time Taken (hours)
1	Treated lantana, asparagus, and prickly pear along Cliff Barrons Rd frontage		12000	M2	34
2					
3					
4					
5					

Team Members / Hours Worked on Site											
	Name	Hours		Name	Hours		Name	Hours		Name	Hours
1	Jack Thatcher	8.5	2	Hayden Stewart	8.5	3	Blaine Williams	8.5	4	Odin Mircic	8.5
5			6			7			8		

WHS – Toolbox Talk					
1	Steep slopes	2	Falling branches	3	Public
4	Insects, ticks, bull ants	5	Isolation	6	Barbed wire

Bushcare Services – Daily Record Sheet v 1.3

Herbicide Use

Application 1:

Equipment Used	Chemicals Used (active ingredient/trade name)			Quantity applied		Rate:	Plants treated	Method
	Active Ingredient		Trade Name	(ml, g, other)				
	<input checked="" type="checkbox"/>	Glyphosate	Weedmaster duo	QTY	1500mL	1:1	Lantana, asparagus, prickly pear	CSP
	<input type="checkbox"/>	Other		QTY				
	<input type="checkbox"/>	Dye		QTY				
	<input type="checkbox"/>	Adjuvant		QTY				
Total Volume of mixture (litres):				3L				

Application 2:

Equipment Used	Chemicals Used (active ingredient/trade name)			Quantity applied		Rate:	Plants treated	Method
	Active Ingredient		Trade Name	(ml, g, other)				
	<input type="checkbox"/>	Glyphosate		QTY				
	<input type="checkbox"/>	Other		QTY				
	<input type="checkbox"/>	Dye		QTY				
	<input type="checkbox"/>	Adjuvant		QTY				
Total Volume of mixture (litres):								

Application 3:

Equipment Used	Chemicals Used (active ingredient/trade name)			Quantity applied		Rate:	Plants treated	Method
	Active Ingredient	Trade Name	(ml, g, other)					
	<input type="checkbox"/>	Glyphosate		QTY				
	<input type="checkbox"/>	Other		QTY				
	<input type="checkbox"/>	Dye		QTY				
	<input type="checkbox"/>	Adjuvant		QTY				
Total Volume of mixture (litres):								

Environmental Conditions:

<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Dry	Wind speed (km/hr):	7
<input type="checkbox"/> Overcast	<input checked="" type="checkbox"/> Mild	Wind direction (N, E, S, W):	WNW
<input type="checkbox"/> Showers	<input type="checkbox"/> Humid	Temperature (°C):	31

Methods: Foliar Spray (FS), Cut Scrape Paint (CSP), Frilling (FR), Cut and Paint (CP), Stem injection (SI)

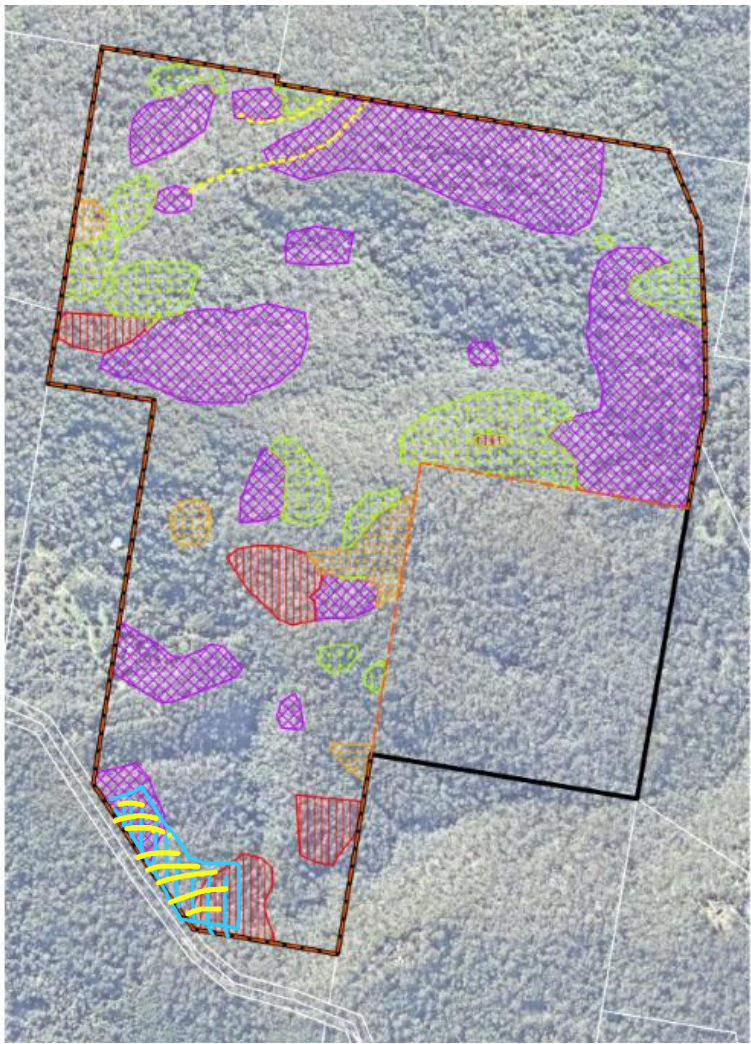
Bushcare Services – Daily Record Sheet v 1.3

Site Notes

Fauna notes: (significant sightings)		
Flora notes:	Flowering:	
	Fruiting:	
	Germinating:	
	Threatened or significant:	
Provide general comments on the work undertaken (constraints, wins etc...)		
<p>Treated lantana and asparagus by hand pulling or CSP techniques.</p> <p>A large prickly pear was found and treated by frilling</p>		
What should be the focus for next time?		
<p>Continue working through the zone. There are large clumps of lantana further down the slope from today's work area.</p>		
Any recommendations for the management of the site?		
Are there any site-specific issues that our client should be aware of (detail and add photos if necessary)?		

Bushcare Services – Daily Record Sheet v 1.3

Mud Map:



Legend					
	Foliar Spray		CSP, Fr, Si		Rubbish
	Slashing		Hand Weed		Other
Define Other:					

Bushcare Services – Daily Record Sheet v 1.3

Photo Record

Photo 1 - manually removed lantana



Photo 2 – Manually removed lantana



Bushcare Services – Daily Record Sheet v 1.3

Photo 3 - asparagus crown (left) treated by cutting into and treated with herbicide



Photo 4 – prickly pear with frill marks on each section



Bushcare Services – Daily Record Sheet v 1.3

Photo 5 -

Photo 6 -



Bushcare Services – Daily Record Sheet v 1.3

Internal Reporting

Use this section to detail any issues, concerns, wins or requests

Use this section to log access reporting documents
(if any item is ticked yes, an appropriate report must be submitted)

Vehicle Damage:	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Accident / Incident:	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Equipment Maintenance Required:	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Does anything need restocking?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

Supervisor to Sign: This report represents a true and accurate reflection of works undertaken:



29/08/2024

Supervisor Signature

Date

Bushcare Administration to Sign: This report has been checked and approved

Administration Signature

Date

Bushcare Services – Daily Record Sheet v 1.3

Client:	Boral	Project:	Ormeau EPBC Weed Control Aug 24	Time Allocated:	
Date of Work:	24/09/2024	Team Size:	4	Supervisor:	Jack Thatcher

Start Time:	06:30	Finish Time:	15:30	Total Working Hours:	34
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(30-minute lunch break is assumed)

Vehicle Rego:	498ZMR
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Tasks to Be Undertaken/ Completed					
	Detail Work Area, Output and Outcomes		Output	Units	Time Taken (hours)
1	CSP and handweed lantana, cat’s claw and asparagus		30000	M2	22
2	Pull cat’s claw to ground for later foliar spray		10000	M2	12
3					
4					
5					

Team Members / Hours Worked on Site											
	Name	Hours		Name	Hours		Name	Hours		Name	Hours
1	Jack Thatcher	8.6	2	Nicholas Kent	8.5	3	Luke Chandler Cooper	8.5	4	Cassidee Stretton	8.5
5			6			7			8		

WHS – Toolbox Talk					
1	Steep slippery slopes	2	Rubbish/ barbed wire	3	Neighbouring properties
4	Falling branches	5	Spiked flora	6	Wildlife/ ticks/ jumping ants

Bushcare Services – Daily Record Sheet v 1.3

Herbicide Use

Application 1:

Equipment Used	Chemicals Used (active ingredient/trade name)			Quantity applied		Rate:	Plants treated	Method
	Active Ingredient		Trade Name	(ml, g, other)				
	<input checked="" type="checkbox"/>	Glyphosate	Weedmaster duo	QTY	1000mL	1:1	Lantana, basket asparagus, cat’s claw	CSP
	<input type="checkbox"/>	Other		QTY				
	<input type="checkbox"/>	Dye		QTY				
	<input type="checkbox"/>	Adjuvant		QTY				
Total Volume of mixture (litres):				2L				

Application 2:

Equipment Used	Chemicals Used (active ingredient/trade name)			Quantity applied		Rate:	Plants treated	Method
	Active Ingredient		Trade Name	(ml, g, other)				
	<input type="checkbox"/>	Glyphosate		QTY				
	<input type="checkbox"/>	Other		QTY				
	<input type="checkbox"/>	Dye		QTY				
	<input type="checkbox"/>	Adjuvant		QTY				
Total Volume of mixture (litres):								

Application 3:

Equipment Used	Chemicals Used (active ingredient/trade name)			Quantity applied		Rate:	Plants treated	Method
	Active Ingredient	Trade Name	(ml, g, other)					
	<input type="checkbox"/>	Glyphosate		QTY				
	<input type="checkbox"/>	Other		QTY				
	<input type="checkbox"/>	Dye		QTY				
	<input type="checkbox"/>	Adjuvant		QTY				
Total Volume of mixture (litres):								

Environmental Conditions:

<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Dry	Wind speed (km/hr):	15
<input type="checkbox"/> Overcast	<input checked="" type="checkbox"/> Mild	Wind direction (N, E, S, W):	NE
<input type="checkbox"/> Showers	<input type="checkbox"/> Humid	Temperature (°C):	25

Methods: Foliar Spray (FS), Cut Scrape Paint (CSP), Frilling (FR), Cut and Paint (CP), Stem injection (SI)

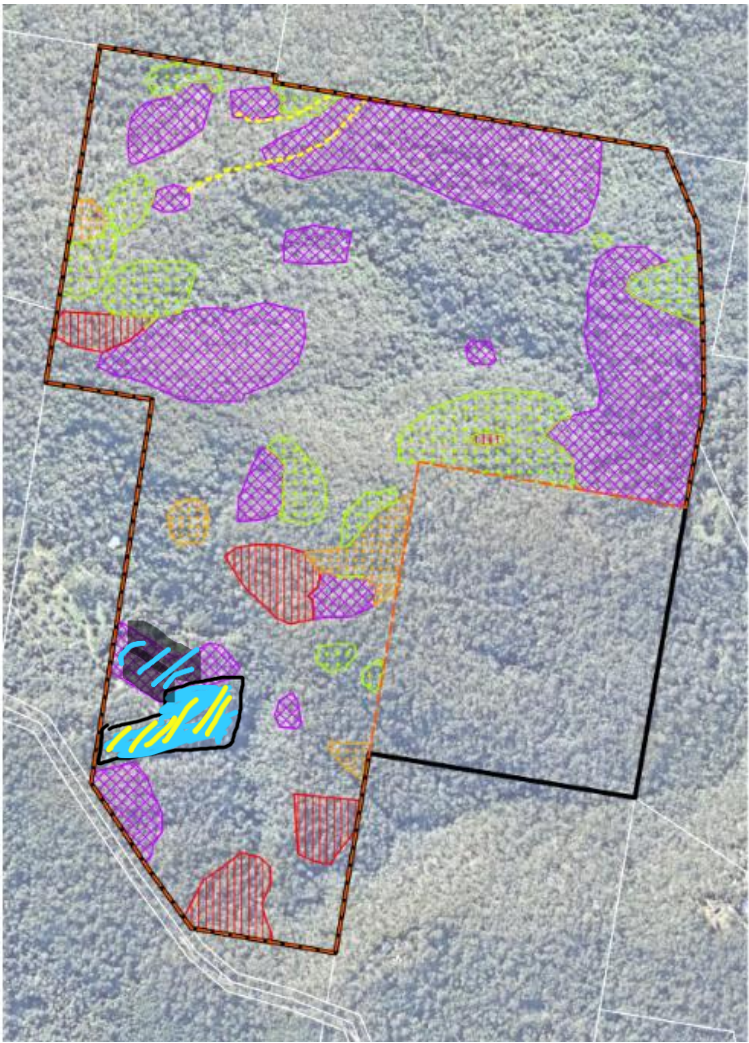
Bushcare Services – Daily Record Sheet v 1.3

Site Notes

Fauna notes: (significant sightings)		
Flora notes:	Flowering:	
	Fruiting:	
	Germinating:	Macadamia, Brachychiton ormeau
	Threatened or significant:	Macadamia, Brachychiton ormeau
Provide general comments on the work undertaken (constraints, wins etc...)		
<p>Treated WONS: Lantana camara, basket asparagus, and cat's claw by either pulling or cut, scrape and painting with 1:1 glyphosate. Smaller cat's claw in trees was pulled down to be sprayed at a later date.</p>		
What should be the focus for next time?		
<p>Spray cat's claw on the ground. Continue with lantana treatment from edge of today's work zone.</p>		
Any recommendations for the management of the site?		
<p>Access track for easier access through site</p>		
Are there any site-specific issues that our client should be aware of (detail and add photos if necessary)?		

Bushcare Services – Daily Record Sheet v 1.3

Mud Map:



Legend					
	Foliar Spray		CSP, Fr, Si		Rubbish
	Slashing		Hand Weed		Other
Define Other:					

Bushcare Services – Daily Record Sheet v 1.3

Photo Record

Photo 1 - Lantana after treatment



Photo 2 – Cats claw after treatment



Bushcare Services – Daily Record Sheet v 1.3

Photo 3 -



Photo 4 -



Bushcare Services – Daily Record Sheet v 1.3

Photo 5 -



Photo 6 -



Bushcare Services – Daily Record Sheet v 1.3

Internal Reporting

Use this section to detail any issues, concerns, wins or requests

Use this section to log access reporting documents
(if any item is ticked yes, an appropriate report must be submitted)

Vehicle Damage:	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Accident / Incident:	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Equipment Maintenance Required:	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Does anything need restocking?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

Supervisor to Sign: This report represents a true and accurate reflection of works undertaken:



24/09/2024

Supervisor Signature

Date

Bushcare Administration to Sign: This report has been checked and approved

Administration Signature

Date

Bushcare Services – Daily Record Sheet v 1.3

Client:	<i>Boral</i>	Project:	<i>Ormeau EPBC Weed Control Aug 24</i>	Time Allocated:	
Date of Work:	<i>26/09/2024</i>	Team Size:	<i>4</i>	Supervisor:	<i>Jack Thatcher</i>

Start Time:	<i>06:30</i>	Finish Time:	<i>15:30</i>	Total Working Hours:	<i>34</i>
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(30-minute lunch break is assumed)

Vehicle Rego:	<i>498ZMR</i>
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Tasks to Be Undertaken/ Completed							
	Detail Work Area, Output and Outcomes				Output	Units	Time Taken (hours)
1	Foliar spray cat’s claw				10000	M2	18
2	CSP and handweed lantana and basket asparagus				15000	M2	16
3							
4							
5							

Team Members / Hours Worked on Site											
	Name	Hours			Name	Hours			Name	Hours	
1	Jack Thatcher	8.5		2	Hayden Stewart	8.5		3	Blaine Williams	8.5	
5				6				7			

WHS – Toolbox Talk					
1	Steep slopes	2	Spiked flora	3	Public/neighbours
4	Herbicides	5	Falling branches	6	Isolated working

Bushcare Services – Daily Record Sheet v 1.3

Herbicide Use

Application 1:

Equipment Used	Chemicals Used (active ingredient/trade name)		Quantity applied		Rate:	Plants treated	Method	
	Active Ingredient	Trade Name	(ml, g, other)					
	<input checked="" type="checkbox"/>	Glyphosate	Weedmaster duo	QTY	1000mL	1:1	Lantana, basket asparagus	CSP
	<input type="checkbox"/>	Other		QTY				
	<input type="checkbox"/>	Dye		QTY				
	<input type="checkbox"/>	Adjuvant		QTY				
Total Volume of mixture (litres):			2L					

Application 2:

Equipment Used	Chemicals Used (active ingredient/trade name)			Quantity applied		Rate:	Plants treated	Method
	Active Ingredient		Trade Name	(ml, g, other)				
	<input type="checkbox"/>	Glyphosate		QTY			Cat's claw	FS
	<input checked="" type="checkbox"/>	Other	ADAMA cutlass 500	QTY	300mL	60mL/10L		
	<input checked="" type="checkbox"/>	Dye	Tru blu	QTY	300mL	60mL/10L		
	<input checked="" type="checkbox"/>	Adjuvant	Brushwet	QTY	120mL	20mL/10L		
Total Volume of mixture (litres):				50L				

Application 3:

Equipment Used	Chemicals Used (active ingredient/trade name)			Quantity applied		Rate:	Plants treated	Method
	Active Ingredient		Trade Name	(ml, g, other)				
	<input type="checkbox"/>	Glyphosate		QTY				
	<input type="checkbox"/>	Other		QTY				
	<input type="checkbox"/>	Dye		QTY				
	<input type="checkbox"/>	Adjuvant		QTY				
Total Volume of mixture (litres):								

Environmental Conditions:

<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Dry	Wind speed (km/hr):	9
<input type="checkbox"/> Overcast	<input checked="" type="checkbox"/> Mild	Wind direction (N, E, S, W):	N
<input type="checkbox"/> Showers	<input type="checkbox"/> Humid	Temperature (°C):	26

Methods: Foliar Spray (FS), Cut Scrape Paint (CSP), Frilling (FR), Cut and Paint (CP), Stem injection (SI)

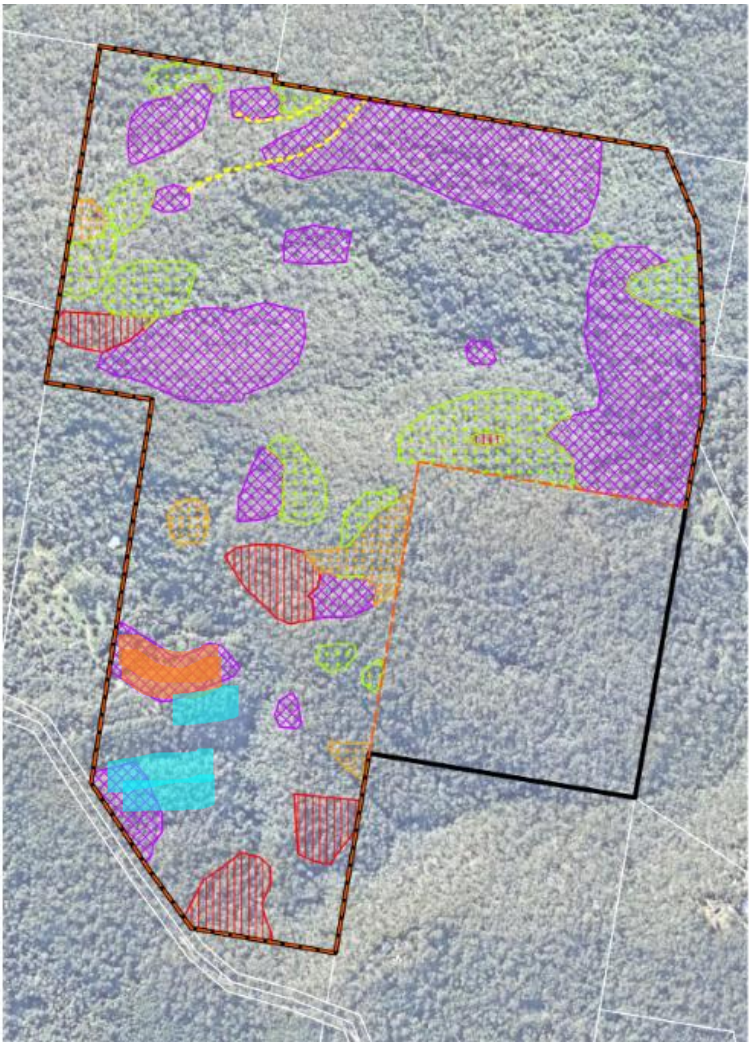
Bushcare Services – Daily Record Sheet v 1.3

Site Notes

Fauna notes: (significant sightings)		
Flora notes:	Flowering:	
	Fruiting:	
	Germinating:	
	Threatened or significant:	
Provide general comments on the work undertaken (constraints, wins etc...)		
<p>Foliar sprayed cat's claw on ground that was prepared two days ago, 24/09/2024.</p> <p>Continued with removal of WONS through the site.</p>		
What should be the focus for next time?		
<p>Continue with lantana treatment. Roadside and driveway frontages have been complete. The gully downhill from cliff barrons Rd is the next most accessible zone with lantana. Large clumps of lantana remain below the cat's claw area and would ideally be managed with hedgers.</p>		
Any recommendations for the management of the site?		
Are there any site-specific issues that our client should be aware of (detail and add photos if necessary)?		

Bushcare Services – Daily Record Sheet v 1.3

Mud Map:



Legend					
	Foliar Spray		CSP, Fr, Si		Rubbish
	Slashing		Hand Weed		Other
Define Other:					

Bushcare Services – Daily Record Sheet v 1.3

Photo Record

Photo 1 - treated cats claw



Photo 2 – treated cat's claw



Bushcare Services – Daily Record Sheet v 1.3

Photo 3 -



Photo 4 -



Bushcare Services – Daily Record Sheet v 1.3

Photo 5 -



Photo 6 -



Bushcare Services – Daily Record Sheet v 1.3

Internal Reporting

Use this section to detail any issues, concerns, wins or requests

Use this section to log access reporting documents
(if any item is ticked yes, an appropriate report must be submitted)

Vehicle Damage:	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Accident / Incident:	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Equipment Maintenance Required:	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Does anything need restocking?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

Supervisor to Sign: This report represents a true and accurate reflection of works undertaken:



26/09/2024

Supervisor Signature

Date

Bushcare Administration to Sign: This report has been checked and approved

Administration Signature

Date

Bushcare Services – Daily Record Sheet v 1.3

Client:	<i>Boral</i>	Project:	<i>Ormeau EPBC Weed Control Aug 24</i>	Time Allocated:	
Date of Work:	<i>30/10/24</i>	Team Size:	<i>4</i>	Supervisor:	<i>Jack Thatcher</i>

Start Time:	<i>0630</i>	Finish Time:	<i>1530</i>	Total Working Hours:	<i>34</i>
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(30-minute lunch break is assumed)

Vehicle Rego:	<i>498ZMR</i>
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Tasks to Be Undertaken/ Completed								
	Detail Work Area, Output and Outcomes					Output	Units	Time Taken (hours)
1	Treated lantana using motorised hedgers and hand tools with glyphosate					4000	M2	34
2								
3								
4								
5								

Team Members / Hours Worked on Site											
	Name	Hours		Name	Hours		Name	Hours		Name	Hours
1	Jack Thatcher	8.5	2	Hayden Stewart	8.5	3	Odin Mircic	8.5	4	CJ Rakuraku	8.5
5			6			7			8		

WHS – Toolbox Talk					
1	Steep slopes	2	Manual handling	3	Motorised machinery
4	Herbicides	5	Hot, humid weather	6	Spiked flora

Bushcare Services – Daily Record Sheet v 1.3

Herbicide Use

Application 1:

Equipment Used	Chemicals Used (active ingredient/trade name)			Quantity applied		Rate:	Plants treated	Method
	Active Ingredient		Trade Name	(ml, g, other)				
	<input checked="" type="checkbox"/>	Glyphosate	Weedmaster duo	QTY	500mL	1:1	Lantana	CSP
	<input type="checkbox"/>	Other		QTY				
	<input type="checkbox"/>	Dye		QTY				
	<input type="checkbox"/>	Adjuvant		QTY				
Total Volume of mixture (litres):				1L				

Application 2:

Equipment Used	Chemicals Used (active ingredient/trade name)			Quantity applied		Rate:	Plants treated	Method
	Active Ingredient		Trade Name	(ml, g, other)				
	<input type="checkbox"/>	Glyphosate		QTY				
	<input type="checkbox"/>	Other		QTY				
	<input type="checkbox"/>	Dye		QTY				
	<input type="checkbox"/>	Adjuvant		QTY				
Total Volume of mixture (litres):								

Application 3:

Equipment Used	Chemicals Used (active ingredient/trade name)			Quantity applied		Rate:	Plants treated	Method
	Active Ingredient	Trade Name	(ml, g, other)					
	<input type="checkbox"/>	Glyphosate		QTY				
	<input type="checkbox"/>	Other		QTY				
	<input type="checkbox"/>	Dye		QTY				
	<input type="checkbox"/>	Adjuvant		QTY				
Total Volume of mixture (litres):								

Environmental Conditions:

<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Dry	Wind speed (km/hr):	11
<input type="checkbox"/> Overcast	<input type="checkbox"/> Mild	Wind direction (N, E, S, W):	ENE
<input type="checkbox"/> Showers	<input checked="" type="checkbox"/> Humid	Temperature (°C):	24

Methods: Foliar Spray (FS), Cut Scrape Paint (CSP), Frilling (FR), Cut and Paint (CP), Stem injection (SI)

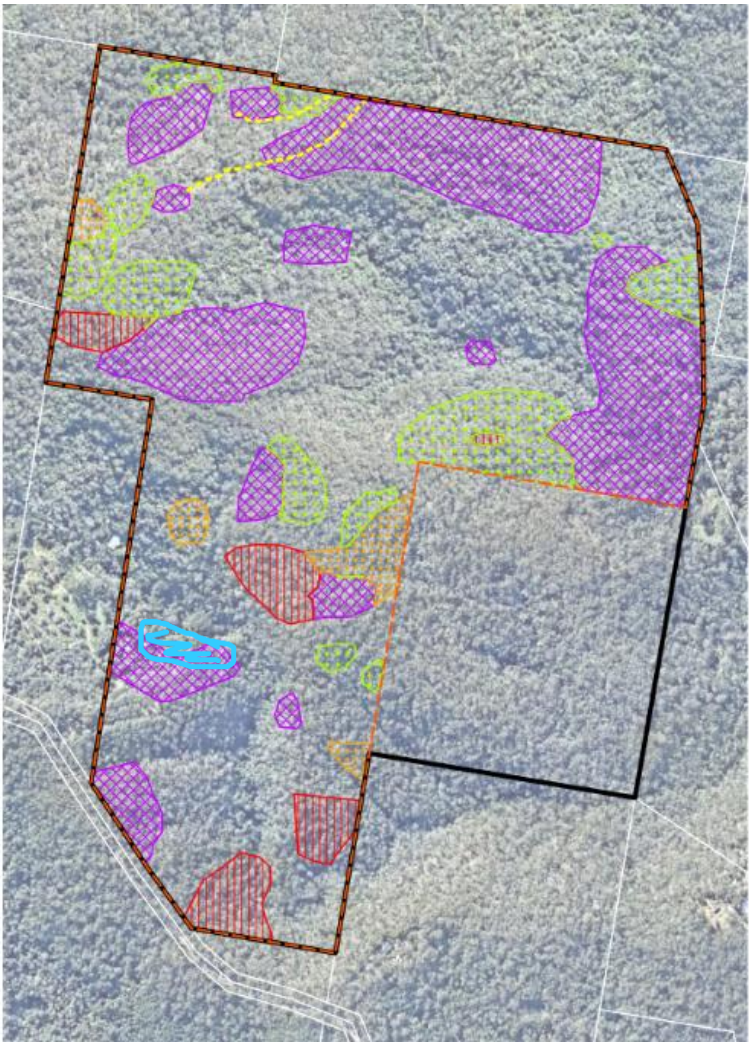
Bushcare Services – Daily Record Sheet v 1.3

Site Notes

Fauna notes: (significant sightings)		
Flora notes:	Flowering:	
	Fruiting:	
	Germinating:	
	Threatened or significant:	
Provide general comments on the work undertaken (constraints, wins etc...)		
<p>We used hedgers to break down large lantana clumps that were otherwise too large to be treated effectively. Stumps were followed up with cut, scrape, painting. Smaller lantana was treated using hand tools in the same way.</p>		
What should be the focus for next time?		
<p>Continue with lantana treatment</p>		
Any recommendations for the management of the site?		
Are there any site-specific issues that our client should be aware of (detail and add photos if necessary)?		

Bushcare Services – Daily Record Sheet v 1.3

Mud Map:



Legend					
	Foliar Spray		CSP, Fr, Si		Rubbish
	Slashing		Hand Weed		Other
Define Other:					

Bushcare Services – Daily Record Sheet v 1.3

Photo Record

Photo 1 -



Photo 2 -



Bushcare Services – Daily Record Sheet v 1.3

Photo 3 -



Photo 4 -



Bushcare Services – Daily Record Sheet v 1.3

Photo 5 -



Photo 6 -



Bushcare Services – Daily Record Sheet v 1.3

Internal Reporting

Use this section to detail any issues, concerns, wins or requests

Use this section to log access reporting documents
(if any item is ticked yes, an appropriate report must be submitted)

Vehicle Damage:	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Accident / Incident:	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Equipment Maintenance Required:	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Does anything need restocking?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

Supervisor to Sign: This report represents a true and accurate reflection of works undertaken:



30/10/2024

Supervisor Signature

Date

Bushcare Administration to Sign: This report has been checked and approved

F Campbell

31/10/2024

Administration Signature


Date

Appendix E

Burn Plan Year 4 – Fireland

S27 – C OPERATIONAL PRESCRIBED BURN PLAN

BURN NAME	Boral_HRB_1.25	Lot/Plan/s No.	2/RP15812
Burn No.	1.25 FMU 2	(all approvals obtained) <input type="checkbox"/> Yes	2/RP15912
Location	Ormeau	Road Segment No.	
LGA	GCCC	Proposed Timing	April - December
ECC details		TASMIS number	
Permit Number		Actual Date	

Prescribed Burn Planner	Matt Ferguson	March 2024
	Name & position	Signature & date
	Burn Planning checklist complete	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Burn Plan Reviewer	Matt Ferguson Joshua Bull	April 28 25 
	Name & position	Signature & date
	Burn Plan Review checklist complete	<input type="checkbox"/> Yes <input type="checkbox"/> No

ATTACHMENTS – may not be attached to this document

- | | |
|--|--|
| <input type="checkbox"/> Burn permit (Mandatory)
<input checked="" type="checkbox"/> Burn map (Mandatory)
<input checked="" type="checkbox"/> Complexity Rating (Mandatory)
<input checked="" type="checkbox"/> Pre Burn Works order (if applicable)
<input type="checkbox"/> Vegetation & Habitat Map (if applicable)
<input type="checkbox"/> Traffic management plan (if applicable) | <input type="checkbox"/> Map of notified residents (if applicable)
<input type="checkbox"/> Media advice (if applicable)
<input checked="" type="checkbox"/> Risk assessment (if applicable)
<input checked="" type="checkbox"/> Contingency map/s (if applicable)
<input type="checkbox"/> Other (if so what) |
|--|--|

SITUATION (SMEACS)					
PLANNING					
Complexity Rating:		(CR – 2), complexity [64].			
SITE CHARACTERISTICS (refer to Operational Burn Map)					
Area to be treated	Ha	Percentage aim	40-60%	Last Fire type Unknown	10+ Years since last fire
Description of site (Topography, slope and aspect)		Moderately steep slopes, sloping down to flat grass land along drainage line. Section Defence Range located on flat area.			
FUEL CHARACTERISTICS					
Vegetation type (General description of vegetation & fuel type, height, fuel variability)		Forested slopes with eucalypt species, partially shrubby with predominant surface fuels. Flat area heavily grassed. Steep sections in the northern part of the burn area with multiple aspects, mainly Easterly.			
Overall fuel hazard score		<input type="checkbox"/> Low <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> High <input type="checkbox"/> Very High <input type="checkbox"/> Extreme 15-20t/Ha			
VALUES MANAGEMENT					
Vegetation Management Act class		<input checked="" type="checkbox"/> Not of Concern <input checked="" type="checkbox"/> Least Concern <input checked="" type="checkbox"/> Of Concern <input checked="" type="checkbox"/> Vulnerable <input type="checkbox"/> Endangered			
Fauna/Flora of site Significant (Any values listed here that may be adversely affected by the planned fire to be included in the Values Assessment section.)		Species: Koala Presence identified as likely: <input checked="" type="checkbox"/> Yes Known identified location: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Value at threat from planned fire activities: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes – include in values assessment			
		Species: Glossy black cockatoo Presence identified as likely: <input checked="" type="checkbox"/> Yes Known identified location: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Value at threat from planned fire activities: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes – include in values assessment			
		Regional Ecosystem code: 12.11.3a VMA Class: <input type="checkbox"/> Not of Concern <input checked="" type="checkbox"/> Least Concern <input type="checkbox"/> Of Concern <input type="checkbox"/> Vulnerable <input type="checkbox"/> Endangered Short Description: Eucalyptus siderophloia, E. propinqua +/- E. microcorys, Lophostemon confertus, Corymbia intermedia, E. acmenoides open forest on metamorphics +/- interbedded volcanics			
		Fire Management Guidelines: SEASON: Summer to winter. INTENSITY: Plan for low to moderate. Unplanned occasional high intensity wildfire will occur. INTERVAL: 4-8 years maintains a healthy grassy system. 8-20 years for shrubby elements of understorey. STRATEGY: Aim for 40-60% mosaic burn. Needs disturbance to maintain RE structure (eucalypt overstorey with open understorey of predominantly non-rainforest species). Any moist sclerophyll that is relatively open with a mixture of grasses and shrubs should be a priority for fire management to retain RE structure. ISSUES: Frequent fire is needed to maintain understorey integrity, keeping more mesic species low in the profile of the understorey so that other species can compete. A grassy system is especially important for species such as the eastern bristlebird and its habitat. It is essential that wildfires are not the sole source of fire in this ecosystem. High intensity fires occur periodically through time, however frequent low to moderate intensity fires will create the disturbance required to keep the understorey diverse. A follow-up burn soon after a high intensity wildfire can be considered to reduce germinating mesic species. This 'of concern' RE may contain a high number of rare and threatened plant species (e.g., Acomis acoma, Corchorus cunninghamii, Marsdenia coronata and Sophora fraseri) which require appropriate fire management.			
		Value at threat from planned fire activities: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – include in values assessment			

	<p>Regional Ecosystem code: 12.11.5</p> <p>VMA Class: <input checked="" type="checkbox"/> Not of Concern <input type="checkbox"/> Least Concern <input type="checkbox"/> Of Concern <input type="checkbox"/> Vulnerable <input type="checkbox"/> Endangered</p> <p>Short Description: <i>Corymbia citriodora</i> subsp. <i>variegata</i> woodland to open forest +/- <i>Eucalyptus siderophloia</i>/E. <i>crebra</i>, E. <i>carnea</i>, E. <i>acmenoides</i>, E. <i>propinqua</i> on metamorphics +/- interbedded volcanics</p> <p>Fire Management Guidelines: SEASON: Summer to winter. INTENSITY: Low to moderate. INTERVAL: 4-25 years. STRATEGY: Aim for 40-60% mosaic burn. Burn with soil moisture and with a spot ignition strategy so that a patchwork of burnt/unburnt country is achieved. ISSUES: The fire regime should maintain a mosaic of grassy and shrubby understoreys. Control of weeds is a major focus of planned burning in most areas. Careful thought should be given to maintaining ground litter and fallen timber habitats by burning only with sufficient soil moisture. Burning should aim to produce fine scale mosaics of unburnt areas. Variability in season and fire intensity is important, as well as spot ignition in cooler or moister periods to encourage mosaics.</p> <p>Value at threat from planned fire activities: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – include in values assessment</p>
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Burn Area Values Assessment

This section to be used to assess values within (or adjacent) to the burn area that may be threatened (adversely) from the planned fire event

Value Type	Value	Threat (from the activity)	Mitigation – Task/Constraint
B – Built N – Natural C – Cultural U – Utility	(eg Power pole) (eg Water Mouse)	(Pole may become fire affected and fall, disrupting power supply) (Fire may affect nests)	(Task – rake around pole) (Could be a task – rake, or constraint. Refer to Standard Mitigation Actions sheet and insert relevant details) Any <u>tasks</u> to be transferred to the 'Pre burn works order' sheet.
N	Koala	Direct flame contact or radiant heat scorch to koala.	Identify expected fire behaviour. Identify high value trees. Identify any koalas, mark trees with pink flagging tape, follow SOP. Record location and file.
N	High value tree	Fire damage	Rake/wet as required and as practical.
N	Fire Sensitive vegetation	Fire incursion	Undertake burn with good soil moisture conditions. Consider fire sensitive vegetation in during ignitions.
N	Glossy black cockatoo	Loss of feed trees	Undertake burn with good soil moisture conditions appropriate to meet burn objectives. Manage fire intensity around stands.
C	Cultural site IF FOUND	Ground disturbance from machinery	Exclude machinery from area.

Control Lines

Control lines Refer to Operational Map Type Description	Name of control line	Location	Type /width (A – B – C – D)
A – Heavy appliance (Urban fire truck or water tanker etc.)	TBA	Western control line	C/4
	TBA	North west control	C/4
	TBA	North east control	C-D/4
	TBA	Southern control	C/4
B – Medium appliance (Echo or Isuzu etc.)			
C – 4WD vehicle access (Land Cruiser or Patrol etc.)			
D – Walking trail or UTV			
Contingency control lines (Identify where a breach of containment could possibly occur. List fallback lines in the event of a breakout)	Surrounding roads, creek lines, less flammable vegetation. Limited fire trail off boral estate,		
Control Line Task Actions Required	<input checked="" type="checkbox"/> Yes (If yes , has the <i>Pre burn works order</i> sheet been populated?) <input type="checkbox"/> No		

MISSION						
Aim & Objectives (Outline the general intent of the proposed burn and the specific objectives. Consider fuel load, fuel structure & mosaic effect)	Fire mitigation, treat 40-60% burnable fuel load. Burn ridge lines and allow fire to back down into riparian gullies					
Expected duration of burn/Timeline	2-4 days					
EXECUTION						
PREFERRED FIRE/FUEL PARAMETERS						
Weather conditions	Max temp	32°	Max wind speed & preferred direction	20 km Any	Min RH Max RH	25% 80%
Flame height	1-3 m (average)	Scorch Height:	3 - 9m (average)			
Other guidelines (List any weather and fuel moisture conditions which will prohibit or restrict burning)						
	Max fire danger index	12	Max KBDI	150		
Suggested Ignition Method	<input checked="" type="checkbox"/> Ground <input type="checkbox"/> Aerial <input type="checkbox"/> Slingshot <input type="checkbox"/> Other (if other what)					
Ignition pattern (Describe the ignition method and sequence of lighting) (Procedure may be modified on the day of the burn, based on conditions and test burn)	Ignition from highpoints and from fire sensitive vegetation to meet objectives.					
SUGGESTED RESOURCES						
Machinery/plant items	Fireland	Council /Utility	RFSQ	QFES	Other Land manager	
Type Number req.						
	4 x LA					
Totals:						
Specialist personnel (List function & name)	Fauna Spotter.					
Contingency resources (List additional resources required if breakout occurs)	Fireland, within 2 hours 4 light attacks Pozzie track 8 hours					
Water points (Refer to operational map) (Describe the type e.g. hydrant, dam, static etc. & the location/s-grid reference)	Type	Location				
	Creek	Point CN (west of)				
	TBA					

Smoke Management

Assessment (Describe what may be affected and the strategies to reduce the risk of adverse effects)

This section to be used to assess values (relating to smoke) that may be threatened (adversely) from the planned fire event

Value Type	Value	Threat (from the activity)	Mitigation – Task/Constraint
B – Built N – Natural P – Person C – Cultural U – Utility	(e.g. Vulnerable persons)	(Smoke impacts - health)	(Task – liaise with management to close windows) (Constraint – Only burn with a northerly wind) Any <u>tasks</u> to be transferred to the 'Pre burn works order sheet.
B		Surrounding residents and business smoke may impact on visibility and health	Constraint – burn with wind speeds that allow smoke to lift and disperse

Traffic Management

Assessment (Describe what may be affected and the strategies to reduce the risk of adverse effects)

This section to be used to assess values (in relation to traffic management) that may be threatened (adversely) from the planned fire event

Value	Threat (from the activity)	Mitigation – Task/Constraint
(e.g. Gympie Road)	(Smoke reducing visibility)	(Task – Install smoke hazard signs) (Constraint – Only burn with a northerly wind) Any <u>tasks</u> to be transferred to the 'Pre burn works order sheet.
N/A		

ADMINISTRATION

Assembly area (Refer to Operational Burn Map) (Describe the location)	Boral carpark in event of incident House (Vacant) general
Catering (Describe location, time and supplier)	Self Sufficient.
Fuel (Describe location and type)	Ormeau

NEIGHBOUR & LAND OWNER NOTIFICATIONS

- ☒ **Firecom must** be notified prior to lighting up, and at the completion of the day.
- ☐ All land owners **must** give consent for works to be carried out on their land.
- ☒ 72 hours notice **must** be given to adjoining land owners/occupiers.

Agency / Neighbour	Contact No.	Advised Date / Time	Notes
City of Gold Coast	media@goldcoast.qld.gov.au		
QFES media	QFESMedia@qfes.qld.gov.au		
Neighbours			Letter Box drop
Dept Health	GCHHSDisaster@health.qld.gov.au		
Dept Health	SHECC@health.qld.gov.au		
Firecomm SE	1800689958		
Local Ward Office - GCCC	division9@goldcoast.qld.gov.au		
City of Gold Coast	media@goldcoast.qld.gov.au		

Patrol (outline patrol responsibilities, timeframe & resources)	
Other (Include any other logistical arrangements. Gate keys?)	Inductions/Gate keys/Radios required. Boral Procedures as required.

COMMAND AND COMMUNICATIONS

ORGANISATIONAL STRUCTURE & COMMUNICATIONS

Fire command	Network/Channel FC - UHF channel 1			
Fire-ground	Network/Channel			
Aviation	Network/Channel			
Position	Name	Call Sign	Channel/s	Mobile
Incident Controller				
<input type="checkbox"/> Sector <input type="checkbox"/> Crew leader Name TBA				
<input type="checkbox"/> Sector <input type="checkbox"/> Crew leader Name TBA				
<input type="checkbox"/> Sector <input type="checkbox"/> Crew leader Name TBA				
<input type="checkbox"/> Sector <input type="checkbox"/> Crew leader Name TBA				
<input type="checkbox"/> Sector <input type="checkbox"/> Crew leader Name				
Safety advisor				
Contingency communications (Describe arrangements if radio network fails)	Mobile phone. UHF 17. Range radio network.			

SAFETY

Personal Safety

Assessment (Describe what threats are present that may cause adverse effects to individuals for this activity)

This section to be used to assess specific threats that exist that could adversely affect individuals from the activity.

Threat Type	Threat (from the activity)	Consequence	Mitigation – Task/Constraint
B – Built N – Natural H – Haz Materials P - Person U - Utility	(e.g. Hazard tree)	Personal harm	(Task – Identify hazardous trees) (Task – Exclude hazardous trees) (Constraint – Burn with high soil moisture) Any <u>tasks</u> to be transferred to the 'Pre burn works order sheet.
U	Hazardous trees	Personal harm	Crew briefing.
P	Track condition and vehicle movement	Roll vehicle	Crew briefing, JSEA, Training

Crew briefing (Prior to lighting up all personnel are to be briefed using the SMEACS)	
Incidents	All incidents or near misses should be immediately reported to the IC and recorded in the Incident Log. Refer to Emergency and Incident Flow Chart. Start Incident Reporting as soon as practicable.
Escape routes (list location) refer to operational burn map	Roads back to SDR.
Safe areas (list locations) refer to operational burn map	House
Evacuation points (List location) refer to operational burn map	House

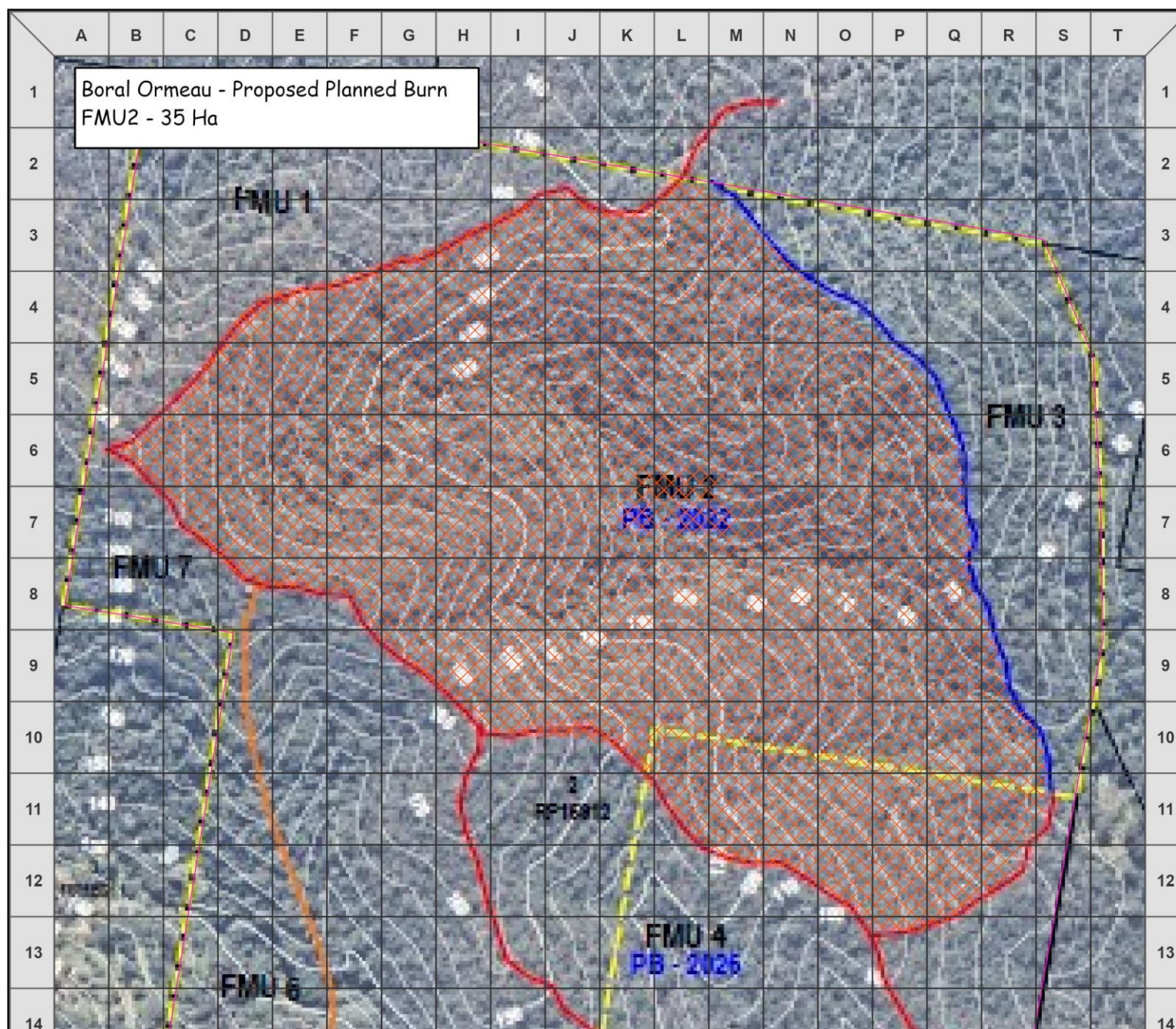
BRIEFING UNDERTAKEN

Date	Time	Incident Controller's signature (IC)

INCIDENT CONTROLLER HANDOVER BRIEFING

Date	Time	Outgoing IC signature	Incoming IC name & signature
DEBRIEFING UNDERTAKEN			
Date	Time	Incident controller's signature (IC)	

SAFETY BRIEFING – to be completed all burn days



Appendix F

Gold Coast City Council approval

Our reference: OPW/2022/893
Your reference: 2766

Decision notice—approval (with conditions)

(Given under section 63(2) of the *Planning Act 2016*)

Date of decision notice: 2 March 2023

Applicant details

Applicant name: Boral Property Group Pty Ltd
Applicant contact details: C/- New Ground
PO BOX 713
MERMAID BEACH QLD 4218

Application details

Application number: OPW/2022/893
Approval sought: Operational Works
Details of proposed development: Tree works development – in accordance with OPW/2022/879

Location details

Street address: Lot 2 Cliff Barrons Road, Ormeau Hills Qld 4208
Real property description: Lot 1 RP174509

Decision

Date of decision: 28 February 2023
Decision details: Under Delegated Authority, the supervisor of the environmental assessment branch of Council has resolved to approve the development application in full with conditions

Referral agency(s) for the application

Not applicable – no part of the application required referral.

Details of the approval

Development permit: Operational works - Vegetation clearing

Conditions

The conditions that have been imposed by Council, as Assessment manager, are enclosed.

Further development permits

Notwithstanding the above, other approvals/development permits may be required.

Properly made submissions

Not applicable—No part of the application required public notification.

Currency period for the approval (section 85 of the *Planning Act 2016*)

In accordance with section 85 of the *Planning Act 2016*, this approval has a currency period of two years.

Approved plans and drawings

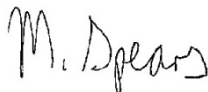
Approved plans and drawings are attached and are identified in the conditions imposed by Council as the Assessment manager.

Appeal rights

Applicant	<p>You have appeal rights in relation to this decision. An appeal may be made against, as applicable:</p> <ul style="list-style-type: none">• the refusal of part of the development application; or• a provision of the development approval; or• if a development permit was applied for, the decision to give a preliminary approval. <p>An appeal must be started within 20 business days after this notice is given to you.</p> <p>An appeal may be made to the Planning and Environment Court or, for certain matters which are identified in section 1(2) of Schedule 1 of the <i>Planning Act 2016</i>, to a development tribunal.</p> <p>An appeal is started by lodging a notice of appeal with the registrar of the Planning and Environment Court or a development tribunal, as applicable. The notice of appeal must be in the approved form, succinctly state the grounds of the appeal and be accompanied by the required fee.</p> <p>An appellant to the Planning and Environment Court must give a copy of the notice of appeal, within 10 business days after the appeal is started, to the persons identified in section 230(3) of the <i>Planning Act 2016</i>. A person who is appealing to the Planning and Environment Court must comply with the rules of the court that apply to the appeal.</p> <p>An extract of Chapter 6, Part 1 and Schedule 1 of the <i>Planning Act 2016</i> is attached to this notice, which sets out further information about the appeal rights.</p>
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For further information please contact Karen Vigoya, Environmental Planner on p: 07 5582 8866 or via email mail@goldcoast.qld.gov.au who will be pleased to assist.

Yours faithfully



Mark Spears

Supervisor - Environmental Assessment

For the Chief Executive Officer

Council of the City of Gold Coast

Enclosed: Conditions imposed by Council as Assessment manager

Attached: Stamped approved plans and drawings

Development Conditions imposed by Council as Assessment Manager																			
General																			
1	Timing a All conditions of this development approval must be complied with at no cost to Council at all times unless otherwise stated in another condition. b Where the timing in a condition is prior to commencement of the use and a Building Format Plan is lodged for approval, the timing in the condition changes from being prior to commencement of the use to being prior to the earlier of the commencement of the use and approval of the plan of subdivision. This timing requirement prevails despite any inconsistency with the timing requirement in another condition.																		
2	Approved drawings Undertake and maintain the development generally in accordance with the following drawings: <table><tr><th>Drawing Title</th><th>Author</th><th>Date</th><th>Drawing No.</th><th>Ver</th></tr><tr><td><i>Vegetation Management Plan</i></td><td><i>New Ground</i></td><td><i>2/11/2022</i></td><td><i>2766</i></td><td><i>1</i></td></tr><tr><td><i>Supplementary Data: Individual Tree Survey Data</i></td><td><i>New Ground</i></td><td><i>-</i></td><td><i>2766</i></td><td><i>-</i></td></tr></table> The conditions of this approval are to be read in conjunction with the attached stamped approved drawings. Where a conflict occurs between the conditions of this approval and the stamped approved drawings, the conditions of this approval shall take precedence.				Drawing Title	Author	Date	Drawing No.	Ver	<i>Vegetation Management Plan</i>	<i>New Ground</i>	<i>2/11/2022</i>	<i>2766</i>	<i>1</i>	<i>Supplementary Data: Individual Tree Survey Data</i>	<i>New Ground</i>	<i>-</i>	<i>2766</i>	<i>-</i>
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<i>Supplementary Data: Individual Tree Survey Data</i>	<i>New Ground</i>	<i>-</i>	<i>2766</i>	<i>-</i>															
3	Approved Plans Undertake and maintain the development generally in accordance with the following plans: <table><tr><th>Plan Title</th><th>Author</th><th>Date</th><th>Plan Reference No.</th><th>Ver</th></tr><tr><td><i>Vegetation Management Plan</i></td><td><i>New Ground</i></td><td><i>2/11/2022</i></td><td><i>2766</i></td><td><i>1</i></td></tr></table>				Plan Title	Author	Date	Plan Reference No.	Ver	<i>Vegetation Management Plan</i>	<i>New Ground</i>	<i>2/11/2022</i>	<i>2766</i>	<i>1</i>					
Plan Title	Author	Date	Plan Reference No.	Ver															
<i>Vegetation Management Plan</i>	<i>New Ground</i>	<i>2/11/2022</i>	<i>2766</i>	<i>1</i>															
4	Scope of works Undertake the vegetation clearing in accordance with the following scope of works: <table><tr><th>Vegetation ID No.</th><th>Quantity and species</th><th>Approved works</th><th>Justification of works</th></tr><tr><td>Trees 1 to 29</td><td>Mixture of species</td><td>To be retained and not damaged</td><td>Outside area of works</td></tr></table> The conditions of this approval are to be read in conjunction with the attached stamped approved drawings. Where a conflict occurs between the conditions of this approval and the stamped approved drawings, the conditions of this approval shall take precedence.				Vegetation ID No.	Quantity and species	Approved works	Justification of works	Trees 1 to 29	Mixture of species	To be retained and not damaged	Outside area of works							
Vegetation ID No.	Quantity and species	Approved works	Justification of works																
Trees 1 to 29	Mixture of species	To be retained and not damaged	Outside area of works																
Environmental and Landscaping																			
5	Vegetation management a Implement the vegetation management measures identified in the plan listed below at no cost to Council:																		

	Plan Title	Author	Date	Plan Reference No.	Ver				
	<i>Vegetation Management Plan</i>	<i>New Ground</i>	<i>2/11/2022</i>	<i>2766</i>	<i>1</i>				
	b Undertake works generally in accordance with an operational works approval and City Plan Policy SC6.8 – Environmental management plans and the Vegetation management code.								
6	Tree pruning and work a Topping, lopping, spur or spike climbing of any tree must not occur. b Pruning may only occur in a manner consistent with the <i>Australian Standard AS4373 - 2007 – Pruning of Amenity Trees</i> . c Undertake all other work on the trunk, foliage or root systems of the trees marked on the drawings listed below in a manner consistent with <i>Australian Standard AS4373 - 2007 - Pruning of Amenity Trees</i> .								
7	Root pruning and barriers a Ensure root pruning utilises a high pressure, needle point water jet prior to insertion of proprietary root barriers. b Ensure root barriers are installed to a minimum depth of 900mm along the side closest to the structure specified in the approved scope of works condition to prohibit or deter growth of roots towards the structure.								
8	No damage to retained vegetation Ensure all other existing vegetation is retained and not disturbed or damaged during implementation of the approved works.								
Construction Management									
9	Erosion and sediment control a Undertake works generally in accordance with the Healthy waters code of the City Plan and include in particular: i Sediment control structures e.g. sediment fence must be placed at the base of all materials imported on site to mitigate sediment run-off. ii A perimeter bund and/or diversion drain must be constructed around the disturbed areas to prevent any outside clean stormwater from mixing with polluted/contaminated stormwater. iii All polluted/contaminated water from the site, including dewatering discharge, must be treated to achieve the water quality objectives in Table 8.2.1 of the Queensland Water Quality Guidelines (DERM September 2009) prior to discharging from the site. iv Inspections for erosion and sediment control measures are to occur in accordance with the compliance procedures in City Plan Policy SC6. 11 – Land development guidelines, section 6.								
10	Supervision of works During construction of any works the following professionals must be appointed to supervise the below described actions:								
	<table><tr><th colspan="2">Environmental Assessment</th></tr><tr><th>Expertise required of the suitably qualified</th><th>Actions to be overseen by the professional</th></tr></table>					Environmental Assessment		Expertise required of the suitably qualified	Actions to be overseen by the professional
Environmental Assessment									
Expertise required of the suitably qualified	Actions to be overseen by the professional								

	professional				
	Minimum AQF Level 5 Arborist	Construction and fencing works within the Tree Protection Zone (TPZ) of subject trees to be retained Supervision of works within Tree Protection Zone (TPZ) of trees to be retained			
11	Certification of works				
	Provide Council with certificates prepared by qualified experts from the disciplines listed below, confirming as follows:				
	Environmental Assessment				
	Certified document	Certification date	Plan/ Drawing	Expert discipline	Requesting Council Section
	<i>Vegetation management plan</i>	<i>Upon practical completion of works</i>	2766	<i>AQF Level 5 Arborist</i>	<i>Environmental Assessment</i>
	The certification is to confirm: <div><div>i</div>The works on site were undertaken in accordance with the approved Vegetation management plan <div>ii</div>Vegetation identified to be retained has been retained without damage. <div>iii</div>Any recommended actions to remediate damage to any retained vegetation. <div>iv</div>The TPZ fencing was maintained at all times. No works occurred within this area unless supervised by Project Arborist - Certificate Level 5.</div>				
12	Availability of approved plans, drawings and reports				
	Retain a copy of this decision notice and stamped approved plans, drawings and reports on site at all times during construction. Any contractors undertaking approved work (including tree removal or relocations) must be directly provided with a copy of these conditions and instructed as to the need to comply with them.				

Advice Notes	
A	Compliance with conditions Once this development approval takes effect, the conditions attach to the land and are applicable in perpetuity. It is a development offence to contravene a development approval, including any of its conditions.
B	Indigenous cultural heritage legislation and duty of care requirement The <i>Aboriginal Cultural Heritage Act 2003</i> ('ACHA') is administered by the Department of Seniors, Disability Services and Aboriginal and Torres Strait Islander Partnerships (DSDSATSIP). The ACHA establishes a duty of care to take all reasonable and practicable measures to ensure any activity does not harm Aboriginal cultural heritage. This duty of care: <ul style="list-style-type: none"> a Is not negated by the issuing of this development approval; b Applies on all land and water, including freehold land; c Lies with the person or entity conducting an activity; and d If breached, is subject to criminal offence penalties. Those proposing an activity involving surface disturbance beyond that which has already occurred at the proposed site must observe this duty of care. Details of how to fulfil this duty of care are outlined in the duty of care guidelines gazetted with the ACHA. The applicant should contact DSDSATSIP's Cultural Heritage Coordination Unit on 1300 378

	401 for further information on the responsibilities of developers under the ACHA.
C	<p>Applicant responsibilities</p> <p>The applicant is responsible for securing all necessary approvals and tenure, providing statutory notifications and complying with all relevant laws.</p> <p>Nothing in this decision notice alleviates the need for the applicant to comply with all relevant local, State and Commonwealth laws and to ensure appropriate tenure arrangements have been made where the use of/reliance upon land other than that owned by the applicant is involved. Without limiting this obligation, the applicant is responsible for:</p> <ul style="list-style-type: none"> a Obtaining all other/further necessary approvals, licences, permits, resource entitlements etc by whatever name called required by law before the development the subject of this approval can be lawfully commenced and to carry out the activity for its duration. b Providing any notifications required by law (by way of example only, to notify the administering authority pursuant to the <i>Environment Protection Act 1994</i> of environmental harm being caused/threatened by the activity, and upon becoming aware the premises is being used for a 'notifiable activity'). c Securing tenure/permission from the relevant owner to use private or public land not owned by the applicant (including for access required by conditions of approval). d Ensuring existing survey marks, including cadastral marks at property corners, i.e pegs or cadastral reference marks in the road reserve (permanent surveys marks, buried iron pins, and various marks in concrete or bitumen structure) are not interfered with. A Consulting Cadastral Surveyor must be contacted if survey marks are disturbed or destroyed during any works in relation to this or related approvals, to investigate and determine if any further action is required. More information on interference with survey marks is available under Section 42 of the <i>Survey and Mapping Infrastructure Act 2003</i>. e Ensuring the correct siting of structures on the land. An identification survey demonstrating correct siting and setbacks of structures may be requested of the applicant to ensure compliance with this decision notice and applicable codes. f Providing Council with proof of payment of the Portable Long Service Leave building construction levy (or proof of appropriate exemption) where the total value of the building and construction works exceeds \$150,000 (excluding GST). Acceptable proof of payment is a Q.Leave –Notification and Payment Form approved by the Authority. Proof of payment must be provided before Council can issue a development permit for the Operational works. This is a requirement of section 77(1) of the Building and Construction Industry (Portable Long Service Leave) Act 1991. g Making payment of any outstanding Council rates and charges applicable to the development site prior to the lodgement of subdivision plans. h Obtaining any necessary local government/state approvals where works require the installation of temporary ground anchoring into adjacent Road Reserves. Where ground anchoring is proposed into an adjacent private property, approval from the relevant property owners(s) is required.
D	<p>Weeds, pest animals and ants</p> <p>Biosecurity Queensland of the Department of Agriculture and Fisheries leads the Government's efforts to prevent, respond to and recover from pests and diseases threatening agricultural prosperity, the environment, social amenity and human health.</p> <p>All landscape materials, including but not limited to, soils, mulch, grass, gravel, potted or ex-ground plants, pavers and timber used in landscape treatments must be free from weeds, pest animals and ants.</p>
E	<p>Fire ant control</p> <p>A significant portion of the Gold Coast is within Fire Ant Biosecurity zone 2 and must remain vigilant for the presence of fire ants. Under the <i>Biosecurity Act 2014</i> individuals and organisations whose activities involve the movement or storage of fire ant carriers have a</p>

	<p>general biosecurity obligation to take all reasonable steps to ensure they do not spread fire ants. Movement of a fire ant carrier from within the fire ant biosecurity zone may need a biosecurity instrument permit. More information is available on the Department of Agriculture and Fisheries website www.daf.qld.gov.au/plants/weeds-pest-animals-ants/invasive-ants/fire-ants.</p>
F	<p>Listing of Koala under EPBC Act</p> <p>Koala populations in South East Queensland are listed under the Environment Protection and Biodiversity Conservation Act 1999 (<i>EPBC Act</i>) as a matter of national significance. All necessary approvals must be obtained prior to any works commencing on the site.</p>
G	<p>Species Management Program</p> <p>Where an animal breeding place has been identified and activities will tamper with the breeding place in order to complete the scope of works, a Species Management Program (SMP) is required.</p> <p>Further advice is found on:</p> <p>https://environment.des.qld.gov.au/licences-permits/plants-animals/species-management-program/</p>

PROPOSED ACCESS ROAD AND STORMWATER UPGRADE

LOT 1 RP174509

68 CLIFF BARRONS ROAD, ORMEAU HILLS

FOR

BORAL LIMITED

INDEX OF DRAWINGS

GENERAL

- G21095G-01 COVER SHEET
- G21095G-02 CIVIL NOTES AND LEGEND

CIVIL

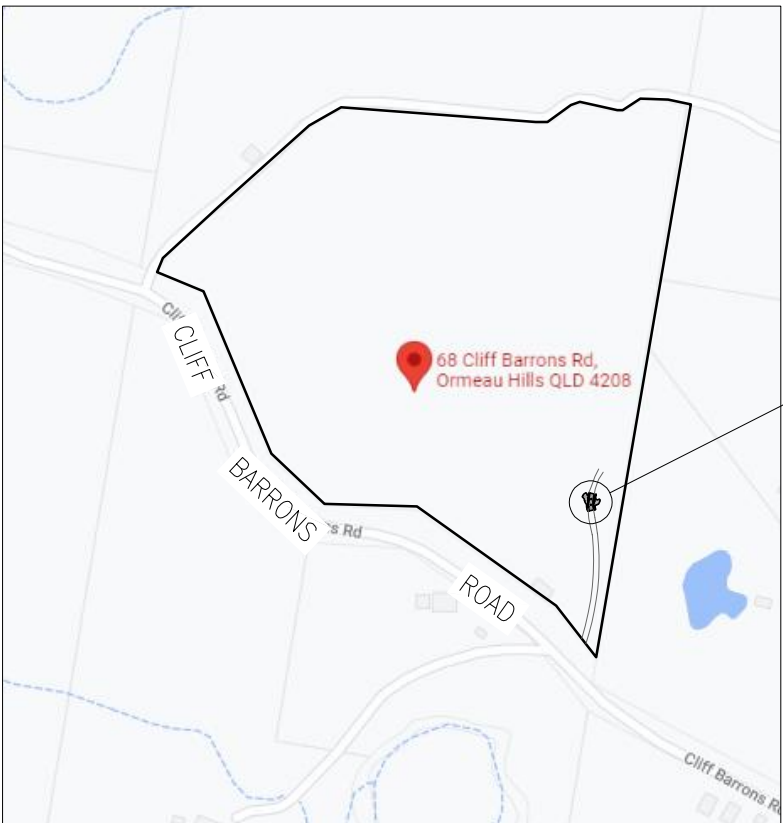
- G21095C-01 CIVIL SITE PLAN
- G21095C-02 ACCESS ROAD LONGITUDINAL SECTION
- G21095C-03 STORMWATER CULVERT SECTION
- G21095C-04 HEADWALL ARRANGEMENT DETAILS
- G21095C-05 HEADWALL STRUCTURAL DETAILS

EARTHWORKS

- G21095E-01 EARTHWORKS PLAN

EROSION & SEDIMENT CONTROL

- G21095ESC-01 EROSION & SEDIMENT CONTROL PLAN
- G21095ESC-02 EROSION & SEDIMENT CONTROL DETAILS
- G21095ESC-03 EROSION & SEDIMENT CONTROL NOTES



LOCATION OF PROPOSED WORKS

LOCALITY PLAN
NOT TO SCALE

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: OPW/2022/879
Dated: 20 February 2023

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

Approval is for change to ground level only.

				DOCUMENT CONTROL	APPROVED	SUNSHINE COAST Suite 2, Norval Corporate Centre, 13 Norval Ct, Maroochydore T: 07 5391 3777 F: 07 5646 5857 E: sunshinecoast@westerapartners.com.au				GOLD COAST Level 3 17 Welch St, Southport T: 07 5571 1599 F: 07 5571 1330 E: goldcoast@westerapartners.com.au				SURVEYOR SCHLENCKER SURVEYING QLD PHONE (07) 5573 6744				DATUM AHD				PROJECT BORAL QUARRY ORMEAU 68 CLIFF BARRONS ROAD ORMEAU HILLS LOT 1 RP174509				DRAWING STATUS FOR APPROVAL			
C	19.10.2022	SHEETS C04 & C05 REMOVED FROM SET			DESIGNED	B.J.M		 WESTERA PARTNERS STRUCTURAL + CIVIL + ENVIRONMENTAL ENGINEERS www.westerapartners.com.au ABN 52 097 417 975				NORTHERN NSW Suite 24 Level 2, 11-13 Pearl St, Kingscliff T: 02 4674 8047 F: 02 4674 8049 E: nsw@westerapartners.com.au				USE FIGURED DIMENSIONS ONLY. DO NOT SCALE. IF A DISCREPANCY ARISES CHECK WITH THE PROJECT ENGINEER AND/OR SUPERVISING AUTHORITY. DO NOT WORK FROM REDUCED SCALE DRAWINGS (A1-A3 SIZE PAPER). COPYRIGHT OF ALL DRAWINGS & WORKS EXECUTED FROM THEM IS VESTED IN WESTERA PARTNERS AND USE OF THEM FOR WITHOUT PERMISSION IS STRICTLY PROHIBITED. IT IS THE BUILDERS RESPONSIBILITY TO ENSURE ALL WORKS ARE CARRIED OUT WITH DUE CARE AND DILIGENCE TO COMPLY WITH THE CONTRACT DOCUMENTS.				DRAWING NUMBER G21-095-G01									
B	8.07.2022	LOCALITY PLAN UPDATED TO SHOW LOCATION OF WORKS			DRAWN	B.J.M														DRAWING NUMBER									
A	13.06.2022	EARTHWORKS & EROSION DRAWINGS ADDED			CHECKED	B.C.A														DRAWING NUMBER									
					DATE	MAY 2022														BRISBANE RPEQ 4384, NER 694962 For and on behalf of WESTERA PARTNERS PTY. LTD.				DRAWING NUMBER					
No.	DATE	REVISIONS			FILE NAME	Coversheet.dwg																							

G1	WESTERA PARTNERS HAS LIMITED CONTROL OR INPUT TO LOCAL GOVERNMENT OR OTHER LEGISLATED APPROVALS UNLESS SPECIFICALLY ENGAGED BY IT'S CLIENT. ANY CHANGES TO APPROVAL REQUIREMENTS (INCLUDING ORDERS FOR SUSPENSION OF WORKS ETC) SHOULD BE COMMUNICATED TO WESTERA PARTNERS AND ALL OTHER RELEVANT DESIGNERS TO ALLOW ASSESSMENT OF POTENTIAL RISKS AND ENSURE DESIGN AND SAFETY COMPLIANCE.
G2	ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITIES STANDARD DRAWINGS & SPECIFICATIONS AND COMPLETED TO THE SATISFACTION OF THE SUPERINTENDENT AND LOCAL AUTHORITY.
G3	UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
G4	PRIOR TO THE COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR MUST LOCATE ALL EXISTING SERVICES AND PROMPTLY PROVIDE THE LOCATION DATA TO THE DESIGN ENGINEER TO ASSESS IMPACTS ON THE DESIGN.
G7	THE PAVEMENT DEPTHS SHOWN ARE PRELIMINARY ONLY AND ARE TO BE VERIFIED FOLLOWING SUB-SOIL TESTS OF THE SUB-GRADE MATERIAL.
G9	ALL U.P.V.C. STORMWATER DRAINAGE PIPES ARE TO BE CLASS S8NB AND ALL R.C. AND F.R.C. PIPES ARE TO BE CLASS 3 RUBBER RING JOINTED UP TO AND INCLUDING 600 DIA. PIPES OVER 600 DIA. ARE TO BE CLASS 3 AND ARE TO HAVE AN EXTERNAL RUBBER BAND JOINT GROUTED INTERNALLY.
G11	ALL "AS CONSTRUCTED" INFORMATION IS TO BE RECORDED AS REQUIRED BY THE LOCAL AUTHORITY AND SUBMITTED TO THE SUPERINTENDENT IMMEDIATELY AFTER COMPLETION OF THE WORKS.

EW1	IN CASE OF DOUBT - ASK!
EW2	ALL LEVELS TO AHD, DIMENSIONS IN METERS U.N.O.
EW3	ALL LIAISON WITH LOCAL, STATE & STATUTORY AUTHORITIES IS THE CONTRACTOR'S RESPONSIBILITY.
EW4	THE LOCATION OF EXISTING SERVICES IS FOR CONTRACTOR'S INFORMATION ONLY, THE LOCATION OF SERVICES WILL BE CONFIRMED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORKS.
EW5	ANY DAMAGE CAUSED TO THE EXISTING SERVICE WILL BE MADE GOOD AT THE CONTRACTOR'S EXPENSE.
EW6	EARTHWORK PROCEDURES ARE TO BE CARRIED OUT IN ACCORDANCE WITH AS 3798 - 2007 "GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS".
EW7	EARTHWORKS OPERATIONS ARE TO BE CARRIED OUT IN GENERAL ACCORDANCE WITH THE GEOTECHNICAL REPORT.
EW8	WORKS NOT SPECIFICALLY REFERRED TO, ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE GENERAL DRAWINGS AND SPECIFICATIONS OF THE LOCAL AUTHORITY (GOLD COAST CITY COUNCIL).
EW9	THE CONTRACTOR IS TO ALLOW FOR ALL FEES AND HAULAGE COSTS ASSOCIATED WITH DISPOSAL OF MATERIAL FROM THE SITE.
EW10	ALL COSTS ASSOCIATED WITH NOISE AND DUST SUPPRESSION FOR SITE WORKS ARE DEEMED THE CONTRACTOR'S RESPONSIBILITY.
EW11	COMPACTION STANDARDS - MINIMUM RELATIVE COMPACTIONS TO AS 3798 TABLE 5.1 (REFER BELOW)

*REFER TO AS 3798 FOR TABLE NOTES.

- 'MODIFIED' TO AS 1289 TEST 5.2.1.
- 'STANDARD' TO AS 1289 TEST 5.1.1.

EW12 PRIOR TO COMMENCEMENT OF WORKS THE CONTRACTOR WILL PROVIDE SCOUR AND EROSION PROTECTION INCLUDING PROVISION OF SILT TRAPS AND FENCES TO MINIMISE DEPOSITION OF MATERIAL DOWNSTREAM OF THE PROPERTY.

EW13 NO BLASTING WILL BE PERMITTED.

EW14 THE LOCATION OF THE SITE SHEDS, SITE OFFICE AND AMENITIES BUILDING WILL BE LOCATED TO SUIT TEMPORARY UTILITY SERVICES OR AS AGREED WITH THE MANAGER.

EW15 TESTING FREQUENCY AS 3798 - 2007 SECTION 8.0 OR AS APPROVED BY THE GEOTECHNICAL ENGINEER.

EW16 AT COMPLETION OF CONSTRUCTION THE CONTRACTOR SHALL ARRANGE FOR AN INDEPENDENT LICENSED SURVEYOR TO CARRY OUT A "WORKS AS CONSTRUCTED" SURVEY AND SUBMIT THE DETAIL PLAN TO THE MANAGER.

EW17 THE LOCATION OF TEMPORARY STOCKPILES DURING CONSTRUCTION IS TO BE AGREED WITH THE MANAGER.

C1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600 CONCRETE STRUCTURES CODE AND THE REFERENCED STANDARDS THEREIN.

C2 THE CONCRETE STRENGTH GRADE AND THE COVER TO REINFORCEMENT FOR THE VARIOUS CONCRETE ELEMENTS SHALL BE AS LISTED BELOW:

- CLIMATE ZONE: TROPICAL TEMPERATE ARID
- LOCATION: COASTAL NEAR COASTAL INLAND

ELEMENT	EXPOSURE CLASSIFICATION	STRENGTH GRADE	MINIMUM COVER
MANHOLES	B1	N32	40
FIELD INLET PITS	B1	N32	40
DRIVEWAY	B1	N32	40
KERB/CHANNEL	B1	N32	-
FOOTPATHS	B1	N32	40

C3 CONCRETE TO HAVE A MAXIMUM AGGREGATE SIZE OF 20mm WITH 80mm MAXIMUM SLUMP, A WATER/CEMENT RATIO OF NOT GREATER THAN 0.65 AND A MAXIMUM FINAL BASIC DRYING SHRINKAGE STRAIN OF 800×10^{-6} UNLESS APPROVED OTHERWISE.

C4 NO ADDITIVES SHALL BE ADDED OF APPLIED TO THE CONCRETE MIX WITHOUT THE APPROVAL OF THE ENGINEER.

C5 THE MAXIMUM PERMISSIBLE TRANSPORT TIME FOR CONCRETE BETWEEN BATCHING AND PLACEMENT ON SITE SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE.

C ALL CONCRETE SHALL BE MECHANICALLY VIBRATED. VIBRATORS SHALL NOT BE USED TO SPREAD CONCRETE.

C7 ALL CONCRETE SHALL BE SAMPLED AND TESTED IN ACCORDANCE WITH AS1379 ADOPTING THE PROJECT ASSESSMENT METHOD FOR COMPRESSIVE STRENGTH AND SLUMP COMPLIANCE. THE RESULTS OF ALL TESTS SHALL BE PROMPTLY SUBMITTED TO THE ENGINEER FOR REVIEW.

C8 WHEN THE AIR TEMPERATURE EXCEEDS 30°C, ALIPHATIC ALCOHOL SHALL BE APPLIED TO THE CONCRETE SURFACE OF SLABS IMMEDIATELY AFTER THE INITIAL SCREED AND AGAIN AFTER BULL FLOATING.

C9 CURING OF ALL CONCRETE SURFACES SHALL COMMENCE IMMEDIATELY AFTER COMPLETING CONCRETE FINISHING AND SHALL CONTINUE FOR 7 DAYS. CONTRACTOR TO CONFIRM METHOD OF CURING WITH ENGINEER PRIOR TO USE.

C10 SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.

C11 BEAM DEPTHS ARE WRITTEN FIRST AND INCLUDE SLAB THICKNESS, IF ANY.

C12 NO HOLES, CHASES OR EMBEDDED ITEMS OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER. CONDUITS, PIPES ETC. SHALL NOT BE PLACED IN THE COVER THICKNESS OF THE CONCRETE.

C13 WHERE SERVICE PIPES PENETRATE CONCRETE ELEMENTS, PROVISION SHOULD BE MADE TO ALLOW FOR MOVEMENT OF THE ELEMENT.

C14 FORMWORK SHALL BE DESIGNED, CONSTRUCTED AND STRIPPED IN ACCORDANCE WITH AS3610 FORMWORK CODE, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

C15 REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY SHOWN IN TRUE PROJECTION OR SCALE.

C16 ALL REINFORCEMENT SHALL BE SECURELY SUPPORTED IN ITS CORRECT POSITION ON PLASTIC BAR CHAIRS, GENERALLY AT NOT GREATER THAN 800mm CENTRES IN BOTH DIRECTIONS.

C17 WELDING AND HEATING OF REINFORCEMENT SHALL NOT BE PERMITTED WITHOUT APPROVAL OF THE ENGINEER.

C18 ALL STEEL REINFORCEMENT IN CONCRETE ELEMENTS SHALL BE INSPECTED BY THE ENGINEER AND PASSED PRIOR TO POURING OF ANY CONCRETE.

C19 LAP REINFORCEMENT ONLY AT LOCATIONS SHOWN ON THE DRAWINGS OR AS APPROVED BY THE ENGINEER.

C20 SLAB FABRIC SHALL BE LAPPED ONE FULL PANEL OF FABRIC PLUS 50mm SO THAT THE TWO OUTERMOST TRANSVERSE WIRES OF ONE SHEET OVERLAP THE TWO OUTERMOST TRANSVERSE WIRES OF THE SHEET BEING LAPPED BY 50mm.

C21 BAR REINFORCEMENT SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING TABLE.

WHERE LAPS ARE SHOWN ON THE DRAWINGS THE ABOVE LAP LENGTHS SHALL BE ADOPTED UNLESS NOTED OTHERWISE. WHERE BARS OF DIFFERENT DIAMETER ARE SHOWN LAPPED, ADOPT THE LAP LENGTH APPROPRIATE TO THE SMALLER DIAMETER BAR.

A VAPOUR BARRIER OF 0.2mm (200µm) MINIMUM THICK POLYTHENE SHEETING SHALL BE PLACED BENEATH SLABS ON GROUND UNLESS NOTED OTHERWISE.

REINFORCED CONCRETE PAVEMENT	
TURF	
STONE PITCHING	
CEMENT GROUTED STONE PITCHING	
TELECOMMUNICATION	
GAS MAIN	
ELECTRICITY OVERHEAD	
ELECTRICITY UNDERGROUND	
LIGHT POLE	
POWER POLE	
PIT (TELSTRA/ELEC)	
EDGE OF BITUMEN	
FENCE	
EXISTING SURFACE LEVEL	
FINISHED SURFACE LEVEL	

**PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL**

Application No.: **OPW/2022/879**

Dated: **20 February 2023**

**Development shall comply with the
conditions of approval as detailed in the
Decision Notice and Council's Planning
Scheme, Local Laws and Planning Policies**

<p>GOLD COAST Level 3 17 Wicks St, Southport 71 5599 11 71 55 91 53 50 www.weldarpartners.com.au</p>	<p>SURVEYOR</p>	<p>DATUM AHD</p>
<p>NORTHERN NSW Suite 24 21, 113 Pines St, Kingscliff 71 5599 11 71 55 91 53 50 www.weldarpartners.com.au</p>	<p>SCHLENKER SURVEYING QLD</p>	<p>AND</p>
<p></p>	<p>PHONE (07) 5573 6744</p>	<p></p>
<p>USE FIGURED DIMENSIONS ONLY. DO NOT SCALE. IF A DISCREPANCY ARISES CHECK WITH THE PROJECT ENGINEER AND/OR SUPERVISING AUTHORITY. DO NOT WORK FROM REDUCED SCALE DRAWINGS. THE SURVEYOR'S PARTIAL COPYRIGHT OF ALL DRAWINGS IS RESERVED. THE WORK IS TESTED IN WESTERN PARTNERS AND USE OF THERE FOR WITHOUT PERMISSION IS PROHIBITED. IT IS THE BUILDERS RESPONSIBILITY TO CHECK ALL WORKS ARE CARRIED OUT WITH DUE CARE AND DILIGENCE TO COMPLY WITH THE CONTRACT DOCUMENTS.</p>		

	NEW	EXISTING	DISUSED
GRAVITY SEWER MAIN			
SEWER RISING MAIN			
SEWER VACUUM MAIN			
MAINTENANCE HOLE & END OF LINE			
END OF LINE			
MAINTENANCE SHAFT			
HORIZONTAL/VERTICAL BEND			
COMPOUND BEND			
STUB / TEMPORARY END			
RODDING END			
PROPERTY CONNECTION			
OVERFLOW MAINTENANCE HOLE			
ISOLATION VALVE			
SCOUR VALVE AND CHAMBER			
GAS RELEASE VALVE			
FLUSHING POINT			
DISCHARGE MAINTENANCE HOLE			
NON-RETURN/REFLUX VALVE			
VENT POLE / ODOUR CONTROL UNIT			

			DOCUMENT CONTROL	APPROVED	SUNSHINE COAST Suite 2, Norval Corporate Centre, 13 Norval Ct, Maroochydore T: 07 5391 3777 F: 07 5646 5857 E: sunshinecoast@westerapartners.com.au		GOLD COAST Level 3 17 Wickx St, Southport T: 07 5571 1599 F: 07 5571 1330 E: goldcoast@westerapartners.com.au	SURVEYOR SCHLENCKER SURVEYING QLD PHONE (07) 5573 6744	DATUM AHD	PROJECT LOCATION BORAL QUARRY ORMEAU 68 CLIFF BARRONS ROAD ORMEAU HILLS LOT 1 RP174509	DRAWING STATUS FOR APPROVAL
			DESIGNED B.J.M.	 B. ARTHUR RPEQ 4384, RNR 694962 For and on behalf of WESTERA PARTNERS PTY. LTD.	 WESTERA PARTNERS STRUCTURAL + CIVIL + ENVIRONMENTAL ENGINEERS www.westerapartners.com.au ABN 52 097 417 975	BRISBANE Level 2 Limestone, 33 Longland St, Newstead T: 07 3852 4333 F: 07 3852 4777 E: brisbane@westerapartners.com.au	NORTHERN NSW Level 2 Suite 24 11-13 Pearl St, Mudgegong T: 062 6674 8047 F: 062 6674 8049 E: nsw@westerapartners.com.au	USE FIGURED DIMENSIONS ONLY. DO NOT SCALE. IF A DISCREPANCY ARISES CHECK WITH THE PROJECT ENGINEER AND/OR SUPERVISING AUTHORITY. DO NOT WORK FROM REDUCED SCALE DRAWINGS (A1-A3 SIZE PAPER). COPYRIGHT OF ALL DRAWINGS & WORKS EXECUTED FROM THIS INVESTMENT IN WESTERA PARTNERS AND USE OF THESE FOR ANY PURPOSE WITHOUT PERMISSION IS STRICTLY PROHIBITED IT IS THE BUILDERS RESPONSIBILITY TO ENSURE ALL WORKS ARE CARRIED OUT WITH DUE CARE AND DILIGENCE TO COMPLY WITH THE CONTRACT DOCUMENTS.		TITLE CLIENT CIVIL NOTES AND LEGEND BORAL LIMITED	DRAWING NUMBER G21-095-G02
			DRAWN B.J.M.								SHEET NUMBER 02 of 02
A	19.10.2022	PAVEMENT HATCH UPDATED IN LEGEND	CHECKED B.C.A.	DATE APRIL 2022							
No.	DATE	REVISIONS	FILE NAME	Civil_Notes.dwg							



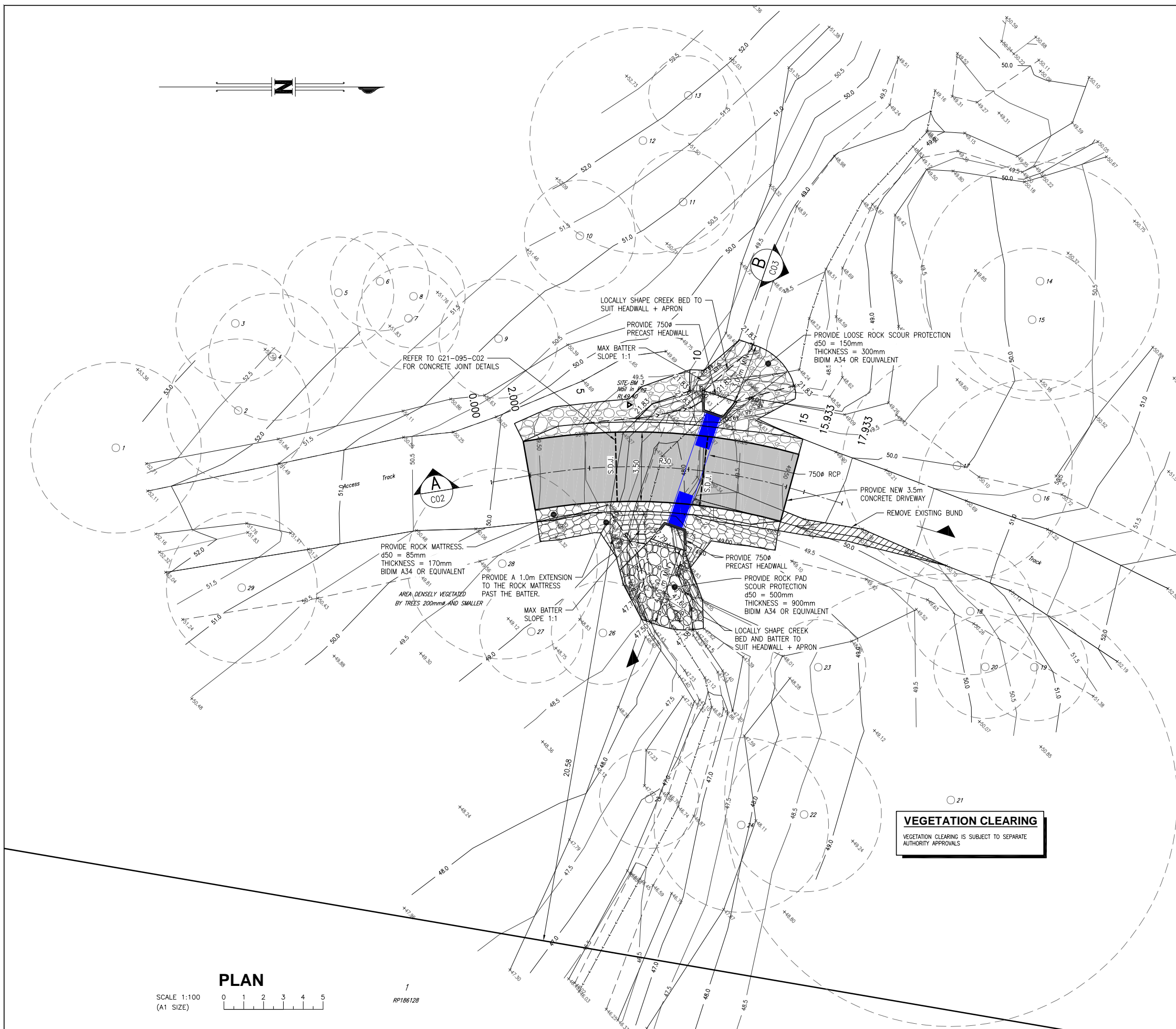
PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No.: OPW/2022/879

Dated: 20 February 2023

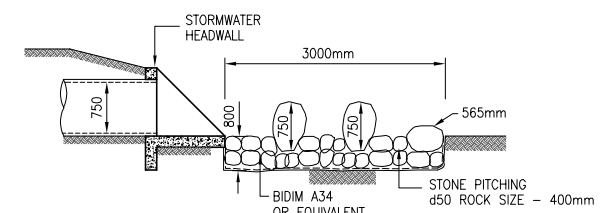
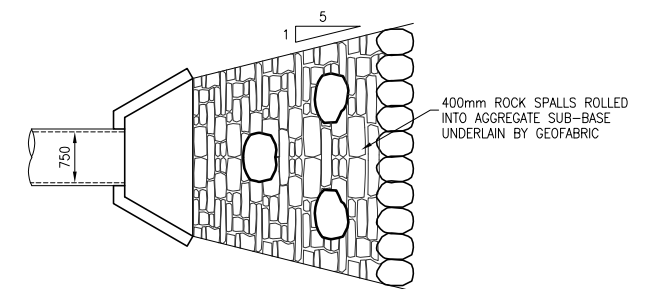
Development shall comply with the
conditions of approval as detailed in the
Decision Notice and Council's Planning
Scheme, Local Laws and Planning Policies

Application only
endorses change to
ground level. **Internal
driveway** is
considered accepted
development as it is
certified by an RPEQ.
RPEQ is responsible
for ensuring an
necessary flood safety
treatments are
implemented



VEGETATION CLEARING

VEGETATION CLEARING IS SUBJECT TO SEPARATE
AUTHORITY APPROVALS

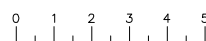


STONE PITCHING DETAIL

NOT TO SCALE

PLAN

SCALE 1:100
(A1 SIZE)



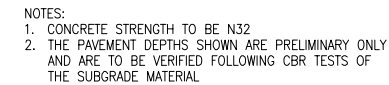
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			DOCUMENT CONTROL	APPROVED	 WESTERA PARTNERS STRUCTURAL+CIVIL+ENVIRONMENTAL ENGINEERS www.westerapartners.com.au ABN 52 097 417 975	SUNSHINE COAST Suite 2, Norval Corporate Centre, 13 Norval Ct, Maroochydore T: 07 5391 3777 F: 07 5646 5867 E: sunshincoast@westera.com.au	GOLD COAST Level 3 17 Walsh St, Southport T: 07 5571 1599 F: 07 5571 1530 E: goldcoast@westera.com.au	SURVEYOR SCHLENCKER SURVEYING QLD PHONE (07) 5573 6744	DATUM AHD	PROJECT LOCATION TITLE CLIENT	BORAL QUARRY ORMEAU 68 CLIFF BARRONS ROAD ORMEAU HILLS LOT 1 RP174509 CIVIL SITE PLAN BORAL LIMITED	DRAWING STATUS FOR APPROVAL		
C	15.11.2022	DS HEADWALL SCOUR REVISED	DESIGNED B.J.M.	 B. ARTHUR BPC24384, NER 694962 For and on behalf of WESTERA PARTNERS PTY. LTD.		BRISBANE Level 2 Limestone, 33 Langland St, Newmarket T: 07 3852 4333 F: 07 3852 4777 E: brisbane@westera.com.au	NORTHERN NSW Suite 24 Level 2, 11-13 Pearl St, Kingscliff T: 02 4674 8047 F: 02 4674 8049 E: nsw@westera.com.au	USE FIGURED DIMENSIONS ONLY. DO NOT SCALE. IF A DISCREPANCY ARISES CHECK WITH THE PROJECT ENGINEER AND/OR SUPERVISING AUTHORITY. DO NOT WORK FROM REDUCED SCALE DRAWINGS (A1-A3 SIZE PAPER). COPYRIGHT OF ALL DRAWINGS & WORKS EXECUTED FROM THEM IS VESTED IN WESTERA PARTNERS AND USE OF THERE FORE WITHOUT PERMISSION IS STRICTLY PROHIBITED IT IS THE BUILDERS RESPONSIBILITY TO ENSURE ALL WORKS ARE CARRIED OUT WITH DUE CARE AND DILIGENCE TO COMPLY WITH THE CONTRACT DOCUMENTS.					DRAWING NUMBER G21-095-C01	
B	19.10.2022	LAYOUT REVISED	DRAWN B.J.M.										SHEET NUMBER	REVISION
A	13.06.2022	BATTERS & SCOUR PROTECTION AMENDED	CHECKED B.C.A.										01 of 05	C
No.	DATE	REVISIONS	FILE NAME										Civilwks.dwg	

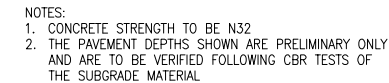
Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies



Approval is for change to
ground level only.
Stormwater is private.



MARK PROPOSED JOINT LOCATIONS CLEARLY
ON EDGE FORMS PRIOR TO POURING



NOTES:
1. CONCRETE STRENGTH TO BE N32
2. THE PAVEMENT DEPTHS SHOWN ARE PRELIMINARY ONLY
AND ARE TO BE VERIFIED FOLLOWING CBR TESTS OF
THE SUBGRADE MATERIAL

SCALE 1:100



			DOCUMENT CONTROL	APPROVED	<div>SUNSHINE COAST Suite 2, Norval Corporate Centre, 13 Norval Ct, Maroochydore T: 07 5391 3777 F: 07 5546 5857 E: sunshinecoast@westerapartners.com.au</div> <div>GOLD COAST Level 3 17 Welch St, Southport T: 07 5571 1599 F: 07 5571 1530 E: goldcoast@westerapartners.com.au</div>		SURVEYOR SCHLENCKER SURVEYING QLD PHONE (07) 5573 6744	DATUM AHD	PROJECT LOCATION	BORAL QUARRY ORMEAU 68 CLIFF BARRONS ROAD ORMEAU HILLS LOT 1 RP174509		DRAWING STATUS FOR APPROVAL	
			DESIGNED B.J.M	<div></div> <div>B. ARTHUR DPCC 4384, NER 694962 For and on behalf of WESTERA PARTNERS PTY. LTD.</div>	<div></div> <div>WESTERA PARTNERS</div> <div>STRUCTURAL + CIVIL + ENVIRONMENTAL ENGINEERS</div>	<div>BRISBANE Level 2 Limestone, 33 Langston St, Newcastle T: 07 3852 4333 F: 07 3852 4777 E: brisbane@westerapartners.com.au ABN 52 097 417 975</div> <div>NORTHERN NSW Suite 24 Level 2, 11-13 Pargill St, Kingscliff T: 02 6674 8047 F: 02 6674 8049 E: nsw@westerapartners.com.au</div>	USE FIGURED DIMENSIONS ONLY. DO NOT SCALE. IF A DISCREPANCY ARISES CHECK WITH THE PROJECT ENGINEER AND/OR SUPERVISING AUTHORITY. DO NOT WORK FROM REDUCED SCALE DRAWINGS (A1-A3 SIZE PAPER). COPYRIGHT OF ALL DRAWINGS & WORKS EXECUTED FROM THIS IS WESTED IN WESTERA PARTNERS AND USE OF THERE FORE WITHOUT PERMISSION IS STRICTLY PROHIBITED. IT IS THE BUILDERS RESPONSIBILITY TO ENSURE ALL WORKS ARE CARRIED OUT WITH DUE CARE AND DILIGENCE TO COMPLY WITH THE CONTRACT DOCUMENTS.		TITLE	ACCESS ROAD LONGITUDINAL SECTION		DRAWING NUMBER G21-095-C02	
			DRAWN B.J.M						DATE MAY 2022				CLIENT
A	19.10.2022	LONG SECTION REVISED, TYP SECT ADDED	CHECKED B.C.A										
No.	DATE	REVISIONS	FILE NAME	Rood_Lsec.dwg									

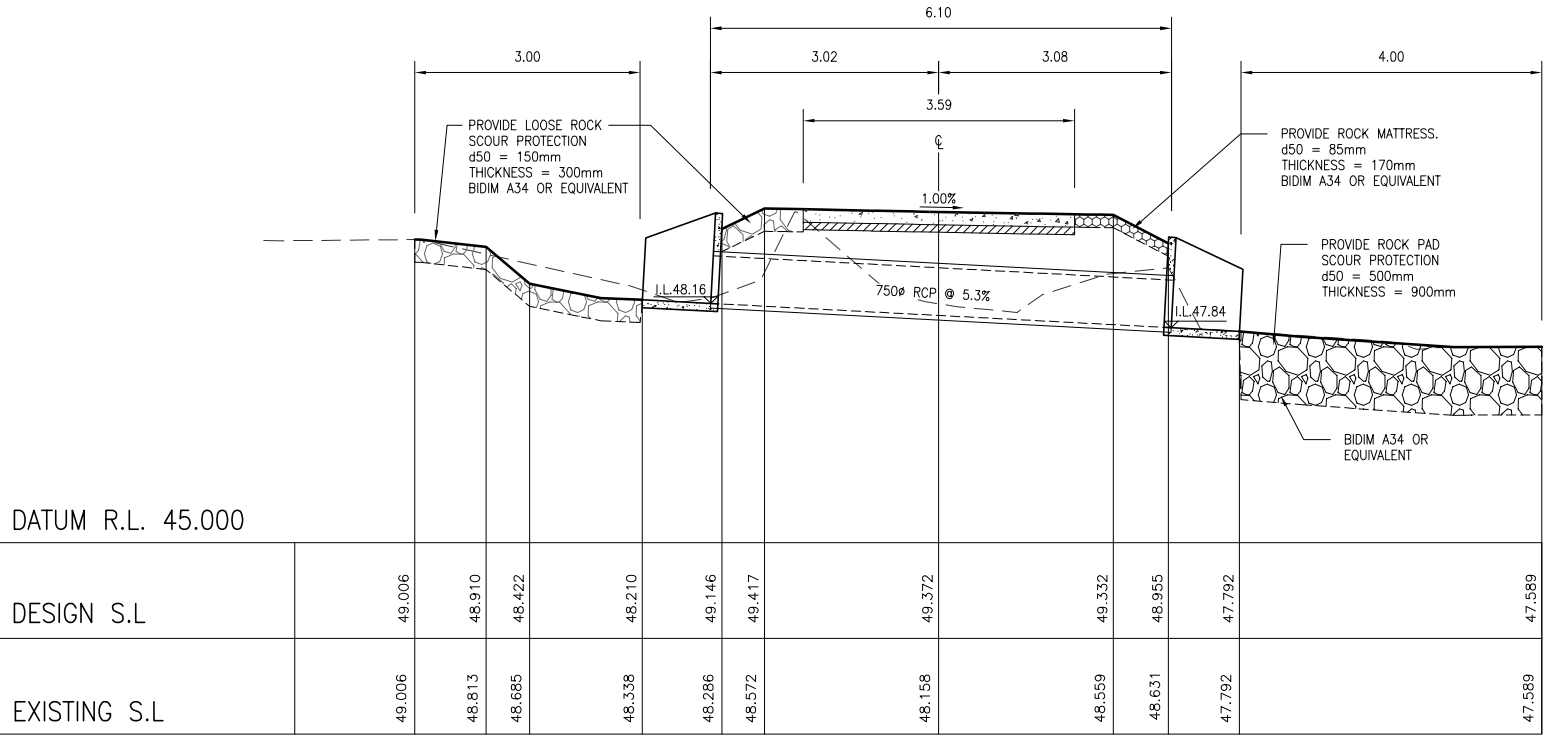
PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: OPW/2022/879

Dated: 20 February 2023

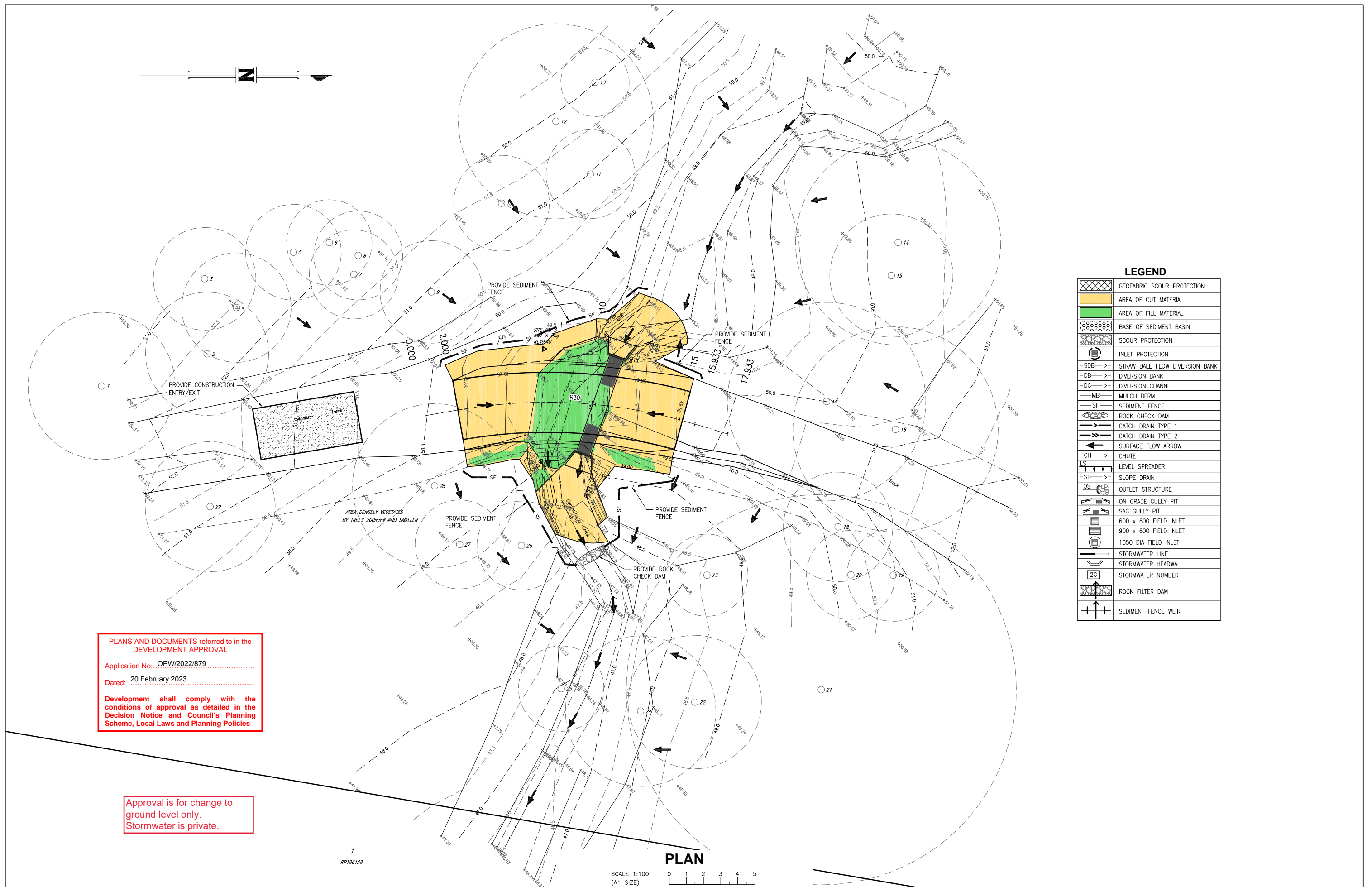
Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

Application only endorses change to ground level. **Internal driveway** is considered accepted development as it is certified by an RPEQ. RPEQ is responsible for ensuring an necessary flood safety treatments are implemented



SECTION B
1:50 SCALE @ A1 SIZE
C01

			DOCUMENT CONTROL	APPROVED	<div><div>SUNSHINE COAST Suite 2, Norval Corporate Centre, 13 Norval Ct, Maroochydore T: 07 5391 3777 F: 07 5646 5857 E: sunshinecoast@westerapartners.com.au</div><div>BRISBANE RPEO 4384, NER 694962 For and on behalf of WESTERA PARTNERS PTY. LTD.</div><div>GOLD COAST Level 3 17 Welch St, Southport T: 07 5571 1599 F: 07 5571 1330 E: goldcoast@westerapartners.com.au</div><div>NORTHERN NSW Suite 24 Level 2, 11-13 Pearl St, Kingscliff T: 02 6674 8047 F: 02 6674 8049 E: nsw@westerapartners.com.au</div></div> <div>WESTERA PARTNERS STRUCTURAL + CIVIL + ENVIRONMENTAL ENGINEERS www.westerapartners.com.au ABN 52 097 417 975</div>	SURVEYOR	DATUM	PROJECT	BORAL QUARRY ORMEAU 68 CLIFF BARRONS ROAD ORMEAU HILLS LOT 1 RP174509	DRAWING STATUS	
C	15.11.2022	DS HEADWALL SCOUR REVISED	DESIGNED B.J.M	SCHLENCKER SURVEYING QLD		AHD	LOCATION	FOR APPROVAL			
B	19.10.2022	CULVERT SECTION REVISED	DRAWN B.J.M	PHONE (07) 5573 6744			TITLE	DRAWING NUMBER		G21-095-C03	
A	13.06.2022	US & DS SCOUR PROTECTION AMENDED	CHECKED B.C.A	USE FIGURED DIMENSIONS ONLY. DO NOT SCALE. IF A DISCREPANCY ARISES CHECK WITH THE PROJECT ENGINEER AND/OR SUPERVISING AUTHORITY. DO NOT WORK FROM REDUCED SCALE DRAWINGS (A1-A3 SIZE PAPER). COPYRIGHT OF ALL DRAWINGS & WORKS EXECUTED FROM THEM IS VESTED IN WESTERA PARTNERS AND USE OF THEM FOR WITHOUT PERMISSION IS STRICTLY PROHIBITED. IT IS THE BUILDERS RESPONSIBILITY TO ENSURE ALL WORKS ARE CARRIED OUT WITH DUE CARE AND DILIGENCE TO COMPLY WITH THE CONTRACT DOCUMENTS.		CLIENT	SHEET NUMBER	REVISION			
No.	DATE	REVISIONS	FILE NAME	Culvert_Lsec.dwg				03 OF 05	C		



			DOCUMENT CONTROL	APPROVED	SUNSHINE COAST Suite 2, Norval Corporate Centre, 13 Norval Ct, Maroochydore T: 07 5391 3777 F: 07 5446 5857 E: sunshinecoast@westerapartners.com.au		GOLD COAST Level 3 17 Welch St, Southport T: 07 5571 1599 F: 07 5571 1330 E: goldcoast@westerapartners.com.au		SURVEYOR SCHLENCKER SURVEYING QLD PHONE (07) 5573 6744	DATUM AHD	PROJECT LOCATION	BORAL QUARRY ORMEAU 68 CLIFF BARRONS ROAD ORMEAU HILLS LOT 1 RP174509		DRAWING STATUS FOR APPROVAL		
B	15.11.2022	DS HEADWALL SCOUR REVISED	CHECKED	B.C.A	B. ARTHUR RP02 4384, NBR 694962 For and on behalf of WESTERA PARTNERS PTY. LTD.	 WESTERA PARTNERS STRUCTURAL + CIVIL + ENVIRONMENTAL ENGINEERS www.westerapartners.com.au ABN 52 097 417 975		BRISBANE Level 2 Limestone 33 Longland St, Newstead T: 07 3852 4333 F: 07 3852 4777 E: brisbane@westerapartners.com.au		NORTHERN NSW Suite 24 Level 2, 11-13 Pearl St, Kingscliff T: 02 6674 8047 F: 02 6674 8049 E: nsw@westerapartners.com.au		USE FIGURED DIMENSIONS ONLY. DO NOT SCALE. IF A DISCREPANCY ARISES CHECK WITH THE PROJECT ENGINEER AND/OR SUPERVISING AUTHORITY. DO NOT WORK FROM REDUCED SCALE DRAWINGS (A1-A3 SIZE PAPER). COPYRIGHT OF ALL DRAWINGS & WORKS EXECUTED FROM THEM IS VESTED IN WESTERA PARTNERS AND USE OF THE HERE FOR WITHOUT PERMISSION IS STRICTLY PROHIBITED. IT IS THE BUILDERS RESPONSIBILITY TO ENSURE ALL WORKS ARE CARRIED OUT WITH DUE CARE AND DILIGENCE TO COMPLY WITH THE CONTRACT DOCUMENTS.		TITLE EROSION AND SEDIMENT CONTROL PLAN		
A	19.10.2022	LAYOUT REVISED	DATE	JUNE 2022												DRAWING NUMBER G21-095-ESC01
											TITLE	EROSION AND SEDIMENT CONTROL PLAN		SHEET NUMBER		
											CLIENT	BORAL LIMITED		01 of 03 B		
No.	DATE	REVISIONS	FILE NAME		Erosion.dwg											

			DOCUMENT CONTROL		APPROVED		SUNSHINE COAST Suite 2, Norval Corporate Centre, 13 Norval Ct, Maroochydore T: 07 5391 3777 F: 07 5446 5857 E: sunshinecoast@westerapartners.com.au		GOLD COAST Level 3 17 Welch St, Southport T: 07 5571 1599 F: 07 5571 1330 E: goldcoast@westerapartners.com.au		SURVEYOR SCHLENCKER SURVEYING QLD PHONE (07) 5573 6744		DATUM AHD		PROJECT LOCATION		BORAL QUARRY ORMEAU 68 CLIFF BARRONS ROAD ORMEAU HILLS LOT 1 RP174509		DRAWING STATUS FOR APPROVAL	
			DESIGNED G.G.J.				BRISBANE Level 2 Limestone, 33 Longland St, Newstead T: 07 3852 4333 F: 07 3852 4777 E: brisbane@westerapartners.com.au		NORTHERN NSW Suite 24 Level 2, 11-13 Pearl St, Kingscliff T: 02 6674 8047 F: 02 6674 8049 E: nsw@westerapartners.com.au		USE FIGURED DIMENSIONS ONLY. DO NOT SCALE. IF A DISCREPANCY ARISES CHECK WITH THE PROJECT ENGINEER AND/OR SUPERVISING AUTHORITY. DO NOT WORK FROM REDUCED SCALE DRAWINGS (A1-A3 SIZE PAPER). COPYRIGHT OF ALL DRAWINGS & WORKS EXECUTED FROM THIS IS VESTED IN WESTERA PARTNERS AND USE OF THERE FOR WITHOUT PERMISSION IS STRICTLY PROHIBITED. IT IS THE BUILDERS RESPONSIBILITY TO ENSURE ALL WORKS ARE CARRIED OUT WITH DUE CARE AND DILIGENCE TO COMPLY WITH THE CONTRACT DOCUMENTS.		TITLE EROSION AND SEDIMENT CONTROL DETAILS		CLIENT BORAL LIMITED		DRAWING NUMBER G21-095-ESC02		SHEET NUMBER 02 OF 03	
			DRAWN G.G.J.																	
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