



ATLAS Stage 3 – ATLAS Pre-clearance Survey Report Bellaringa Wells, Gathering and Landspray

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Senex

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Glossary of Terms

| Acronym | Description |
|----------|--|
| ATP | Authority to Prospect |
| ECPPFD | <i>Environmental Constraints Protocol for Planning and Field Development</i> |
| EPBC Act | <i>Environment Protection and Biodiversity Conservation Act 1999 (Cth)</i> |
| ha | Hectares |
| m | Metres |
| EA | Environmental Authority |
| PL | Petroleum Lease |
| sp. | Species (singular) |
| spp. | Species (plural) |
| sqm | Square metres |
| TEC | Threatened Ecological Community |

1 Introduction

The pre-clearance survey methodology applied within this package of works is deemed appropriate to confirm the on-the-ground biodiversity values present.

1.1 Project background

The Atlas Stage 3 Gas Project (EPBC Act referral 2022/09410) involves developing, operating, decommissioning and rehabilitating up to 151 coal seam gas wells; gas and water gathering systems for the producing wells; access tracks; brine and produced water storages; borrow pits; and ancillary supporting facilities on Authority to Prospect (ATP) 2059, Petroleum Lease (PL) 445, the northern portion of PL209 and parts of PL1037 in the central part of the Surat Basin, Queensland (Senex, 2024). This report is provided to ensure compliance with the following EPBC approval conditions:

4. In accordance with the Constraints Protocol, the approval holder must:
 - b) adhere to the constraints mapping.
5. To ensure no functional change to Koala dispersal habitat, the approval holder must not remove more than a total of 4 ha of trees, measured in canopy cover within mapped Koala dispersal habitat.

PRE-CLEARANCE SURVEYS

6. Prior to commencing clearing, the approval holder must:
 - a) undertake at least one pre-clearance survey of the proposed area of clearing, and
 - b) publish on the website the pre-clearance survey findings, including:
 - i) the location and extent of trees to be cleared, including maps, and
 - ii) a discussion of how removal of trees will not change the ability of Koalas to disperse across the landscape.

This report provides the results of pre-clearance survey on an initial footprint layout including landspray areas, wells and gathering Infrastructure (well pads, gas and water gathering lines and access tracks) (the footprint) and a 30 m buffer within the Bellaringa property: 49SP237297 and 52SP237297. Three landspray areas were surveyed in September 2024 and the results added to this report. In October 2024 additional access tracks were assessed and verified in the field where required.

This report is also provided to help ensure compliance with Conditions F1-10 of the Project's Environmental Authority (P-EA-100112777).

1.2 Scope

Ausecology Pty Ltd (Ausecology) was engaged by Senex Energy Pty Ltd (Senex) to undertake pre-clearance ecological surveys as part of the approval conditions for the Atlas Stage 3 Gas Project and in accordance with the *Atlas Stage 3 Environmental Constraints Protocol for Planning and Field Development* (ECPDFD) document (Senex, 2024). The ECPDFD provides a framework for identifying, assessing and managing potential impacts to Matters of National Environmental Significance (MNES) and Matter of State Environmental Significance (MNES) associated with development of the Atlas Stage 3 Gas Project. Data collected during the pre-clearance surveys will be used by Senex to ensure:

- infrastructure siting complies with relevant environmental approval conditions and does not exceed the maximum disturbance limits
- infrastructure siting adheres to the constraints mapping
- no functional change to Koala dispersal habitat, the approval holder must not remove more than a total of 4 ha of trees, measured in canopy cover within mapped Koala dispersal habitat.

Results from the pre-clearance survey findings (this report) will be published on the website, including:

- the location and extent of trees to be cleared, including maps, and
- a discussion of how removal of trees will not change the ability of Koalas to disperse across the landscape.

This survey also involved Targeted Threatened Flora Surveys, Active Threatened Fauna Surveys (where suitable habitat was identified) and Fauna Habitat (where encountered) as per the ECPPFD.

2 Methodology

An Ausecology senior ecologist conducted the field surveys on the 25th and 26th of July, areas were assessed alongside the Senex construction team to determine any further impacts not already identified to be avoided by re-aligning gas gathering, access tracks and well pads. Further surveys for proposed landspray areas were undertaken by a Senior Ecologist on the 30th of September to 1st of October 2024. The area surveyed and mapped in this report include the Bellaringa property as shown in Figure 2-1.

2.1 Regional Ecosystem assessment and Threatened Ecological Communities

2.1.1 Desktop assessments

Baseline assessments of the vegetation communities, including ground-truthed regional ecosystem (GTRE) mapping and threatened ecological community surveys were conducted to an acceptable level of detail and covered the relevant sections of the Field Development Area (ECPPFD). These assessments have been reviewed as part of the desktop assessment prior to the preclearance surveys. Given the level of detail in these reports, no further desktop analysis has been conducted.

2.1.2 Regional Ecosystem assessment

During preclearance surveys, quaternary site assessments to verify regional ecosystems were undertaken where necessary (i.e. where vegetation and ecological communities have been determined to vary from the mapped ground-truthed regional ecosystem at the time of the pre-clearance surveys). These assessments were conducted in accordance with the ECPPFD.

2.1.3 Threatened Ecological Communities

Where necessary Threatened Ecological Community (TEC) assessments were undertaken to confirm the presence and condition of TECs identified as known or potential in the footprint if these were determined to vary from the mapped TEC areas identified in the constraints mapping.

2.2 Targeted threatened flora surveys

These surveys were conducted by a suitably qualified person (SQP). Targeted flora surveys of all known, likely or potential threatened flora species were conducted within the footprint and 30 m buffer, where mapped constraint areas were present and/or suitable habitat was identified by the SQP, in accordance with the ECPPFD.

These surveys were conducted using the random meander method and if a species is encountered, a population survey would be undertaken to determine the extent and density of the population. Threatened

flora species and the locations of all individuals were recorded and specimens collected of any unknown individual requiring confirmation by the Queensland Herbarium.

Potentially occurring threatened species in the area include but are not limited to Belson's panic (*Homopholis belsonii*), red soil wooly winklewort (*Rutidosis lanata*), winged nightshade (*Solanum graniticum*) and *Solanum stenopterum*.

2.3 Fauna habitat assessment

Senex has committed to not clearing any areas confirmed as habitat for threatened species (ECPFFD), with the exception of Koala dispersal habitat and Echidna habitat. Fauna habitat baseline assessments have been conducted to an adequate level of detail to enable known, likely and potentially present species to be identified and a comprehensive Project impact assessment and constraints mapping has been completed (ECPFFD).

The pre-clearance surveys will reassess the habitat present (as mapped in the constraints mapping (ECPFFD)) or otherwise identified by the SQP during the preclearance surveys) in order to refine mapped habitat areas and survey and record micro-habitat features and breeding sites in the mapped constraint habitat to facilitate avoidance and minimisation of impacts to potentially utilised micro-habitat features and breeding sites.

Recorded micro-habitat features included:

- Hollow-bearing trees;
- Dead standing trees;
- Hollow logs;
- Termite mounds;
- Woody debris;
- Surface rocks;
- Gilgais;
- Soil cracks / cracking clay;
- Rocky outcrops, crevices, overhangs and caves;
- Mistletoes;
- Nests;
- Animal burrows;
- Watercourses, wetlands and dams (including proximity); and
- Any other significant habitat features, or values present, such as dense leaf litter, heavily decorticating bark, dense grass/shrub shelter, seeding grass cover, fruiting plants, nectar and pollen producing plants and koala food trees.

2.4 Threatened Fauna Surveys

As areas confirmed as habitat for threatened species have been effectively avoided by the footprint (with the exception of Koala dispersal habitat and Echidna habitat), the area required to be surveyed is minimal.

Active fauna surveys of all known, likely or potential threatened fauna species are to be undertaken where suitable potential habitat is mapped or found to be present within the proposed disturbance footprint (refer to the constraints mapping and the habitat features listed in Appendix A of the ECPFFD). Active fauna searches as per Table 1, Appendix A of the ECPFFD include scanning trees, the ground and habitat features; overturning rocks, logs and other woody debris; searching under peeling bark; raking leaf litter and soil at the base of trees; and flushing birds from dense shrubs and groundcover.

Invasive active searches were not undertaken in the 30m buffer of the disturbance footprint within mapped constraint areas, given no impact is expected and active searches outside of the footprint would be detrimental to the fauna species habitat. Instead of invasive searches in the 30m buffer, surveys included incidental observations and scat and sign searches.

2.5 Koala dispersal habitat

An initial desktop survey was undertaken to analyse all previous ecology data collected in the field, analyse the ECPPFD and associated constraints mapping and to identify areas of mapped koala dispersal habitat that would require further ground verification.

Areas identified were highlighted on GIS mapping for further identification and field verification. Additional points were collected in the field where applicable. All tree ID numbers have been provided in individual maps of the area surveyed and Table 3-1 identifying each species in the results.

Canopy cover was measured by walking the dripline of trees located in koala dispersal areas using a sub-10cm accuracy handheld Trimble GPS unit. The diameter at breast height (DBH) and total height of each of the abovementioned trees were measured. Where denser regrowth was present and canopy cover of individual trees could not be distinguished, the canopy cover of the clump of trees was walked at the outer dripline and average height assessed. Thorny tree species which are not able to be climbed by Koala (i.e. desert lime (*Citrus glauca*)) were still recorded in the field but excluded from the final Koala tree canopy cover calculations.

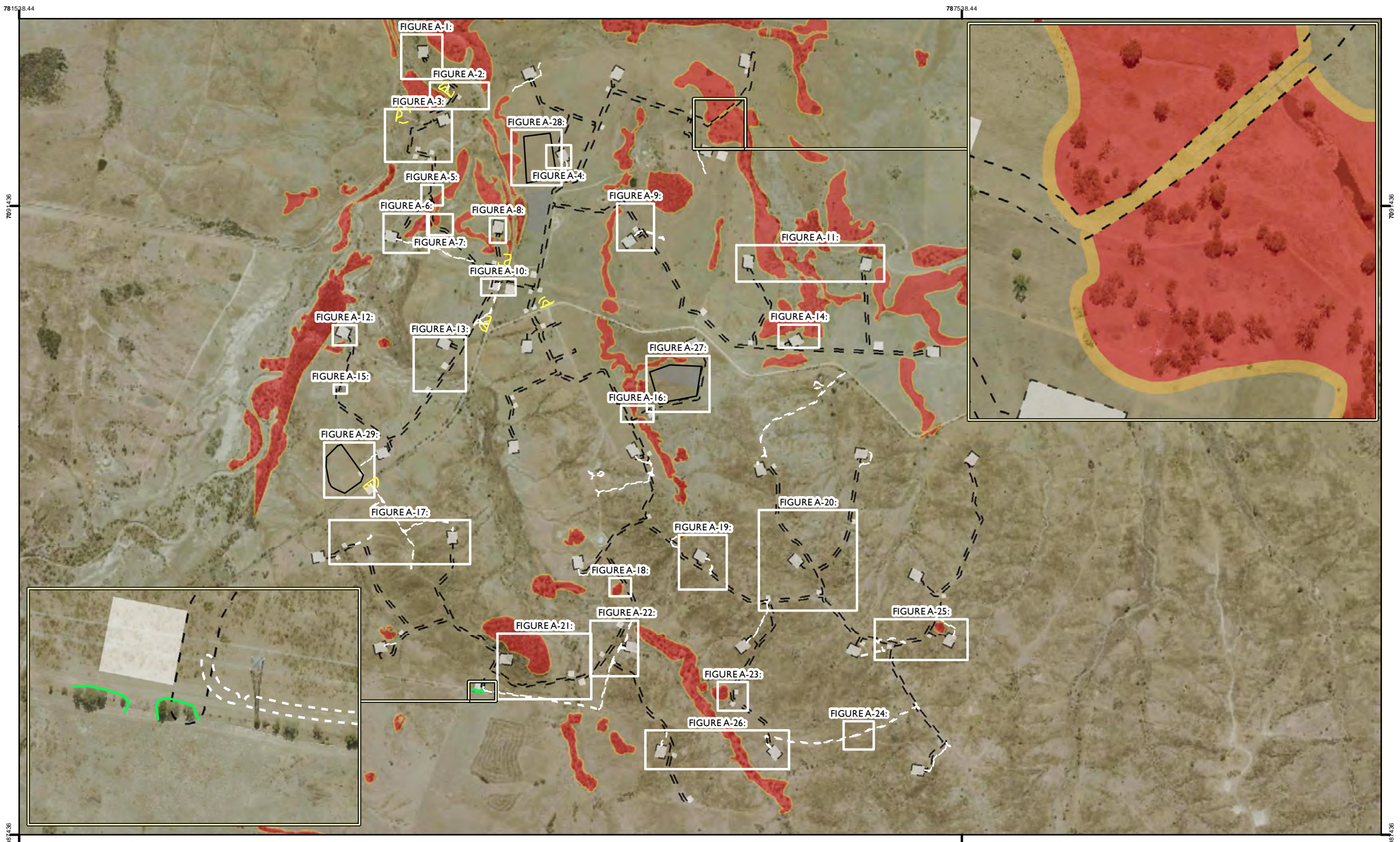
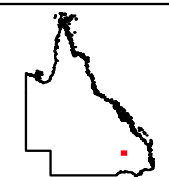


FIGURE 2-1:
Bellaringa - Overview

- Vegetation Dripline Extent - Potential ROW Option
- Turnout Survey Area
- Turnout Impact Footprint
- Potential Landspray Areas
- Tree Verification Map Areas
- Priority Access Tracks
- Proposed Wellpads
- Proposed ROW
- Proposed Extra Workspaces
- Camp and Laydown Options
- No Go Area
- High Constraint Area

Data Accuracy Notes:
Ground-Truthed data mapped
using Fixed RTK GNSS Receivers
with 1cm Accuracy



| REVISION | AUTHOR | REVIEWER | DATE |
|----------|--------|----------|------------|
| 4 | NC | LG | 31/10/2024 |
| 5 | NC | LG | 04/11/2024 |

COORDINATE SYSTEM: GDA2020 MGA Zone 55
SCALE: 1:30,000

3 Results

The Bellaringa property has been historically cleared for cattle grazing and is dominated by cleared pasture lands of introduced pasture grasses. Large areas of the cleared areas on the property have dense regrowth of either *Acacia decora* or the invasive sweet acacia (*Vachellia farnsiana*). The property has scattered patches of remnant and regrowth vegetation including Brigalow (*Acacia harpophylla*) woodland (RE 11.9.5), as well as ironbark and callitris pine (*E. melanophloia* and *Callitris glaucophylla*) woodlands (RE 11.5.5, 11.5.1 and 11.3.19). Many creek lines around the property have disturbed and/or regrowth vegetation in along the drainage features, including riverine river red gum woodlands (RE 11.3.25), ironbark (*Eucalyptus melanophloia*) woodlands (RE 11.3.39), and poplar box (*Eucalyptus populnea*) woodlands (RE 11.3.2). Individual and small patches of paddock trees of various ages and species were also scattered across cleared pastures (Figure 3-1 to Figure 3-4).



Figure 3-1 Patches of remnant or old regrowth brigalow



Figure 3-2 Fragmented riverine eucalypt forest



Figure 3-3 Extensive cleared areas, often with dense young regrowth *Acacia decora*



Figure 3-4 Cleared grazing land with sparse paddock trees

3.1 Regional Ecosystems and Threatened Ecological Communities

Where mapped constraints areas occurred within the disturbance footprint or 30m buffer these were assessed in the field to ensure they aligned with the mapping. No mapped constraints in the survey area were found to require changes. The survey also confirmed that the proposed disturbance areas do not contain any listed TECs.

3.2 Targeted threatened flora surveys

No threatened flora species were identified in the footprint or 30 m buffer, within the areas mapped as constraints for these species.

3.3 Opportunistic fauna surveys and habitat assessment

Active searches were not required within the disturbance footprint as no searchable fauna habitat was present (Either mapped as constraints or identified during the survey). Apart from koala dispersal trees, several bird nests were identified during the surveys. The habitat features recorded are listed in Appendix C.

No threatened fauna species were observed in suitable potential habitat within 30 m of the proposed disturbance footprint. Some vegetation patches are located within 30m of the disturbance footprint, however, impacts to the patches have been avoided. Invasive searches were not undertaken in these patches since none of the coarse woody debris, trees with loose bark or areas with leaf litter will be impacted by the disturbance footprint.


Opportunistic sightings were recorded across the disturbance footprint and 30m buffer. Fifteen species of fauna were recorded during the surveys (Appendix B).






3.4 Ground-truthed koala dispersal trees






Table 3-1 provides the results including canopy cover, height and DBH of the trees assessed in the field in koala dispersal areas. All trees were assessed and where determined they could be avoided (through underground boring or realignment) they have been marked up as “retain” and will be avoided during construction. Trees unable to be avoided have had their canopy cover assessed and calculated under disturbance limits. Mapping of each location (Desktop ID) are shown in Appendix A.

A limited number of trees will require removal. Most will be retained due to avoidance measures undertaken.






Table 3-1 Dispersal habitat trees






| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|------------|------------------------|------------------|------------------|--------|---|
| LE01-03 | 110.47 | <i>Acacia salicina</i> | 23 23 23.5 | 11.2 12 11 | Remove |  |






| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|------------|--------------------------------|------------|------------|--------|---|
| LE04-005 | 75.21 | <i>Acacia salicina</i> | 25.3 10 | 8.7 4 | Remove |  |
| LE06 | 18.81 | <i>Acacia salicina</i> | 14 | 7.4 | Remove |  |
| LE08 | 42.64 | <i>Eucalyptus melanophloia</i> | 28 | 12.3 | Retain |  |
| LE09 | 8.46 | <i>Acacia salicina</i> | 7 | 4.5 | Remove |  |
| LE10 | 9.83 | <i>Acacia excelsa</i> | 7 | 7 | Remove |  |






| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|------------|---|------------|------------|--------|---|
| LE11 | 28.35 | <i>Geijera parviflora</i> | 7 | 5.1 | Remove |  |
| LE12 | 19.02 | <i>Geijera parviflora</i> | 19 | 5.1 | Remove |  |
| LE13-14 | 98.56 | <i>Geijera parviflora</i> <i>Notelaea microcarpa</i> | 40.5 14 | 9.1 5.5 | Remove |  |
| LE15 | 27.20 | <i>Geijera parviflora</i> | 9 | 5.4 | Remove |  |
| LE16 | 107.56 | <i>Eucalyptus camaldulensis</i> | 33 | 17.5 | Retain |  |






| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|------------|--------------------------------|----------|------------|--------|---|
| LE17 | 586.88 | <i>Acacia harpophylla</i> | 22 | 10.3 | Retain |  |
| LE18 | 31.91 | <i>Eucalyptus melanophloia</i> | 7 | 4.5 | Remove |  |
| LE19 | 10.18 | <i>Casuarina cristata</i> | 9 | 4.4 | Remove |  |
| LE20 | 6.80 | <i>Casuarina cristata</i> | 7 | 4 | Remove |  |
| LE21 | 133.04 | <i>Geijera parviflora</i> | 50 | 11 | Remove |  |






| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|------------|---|----------|------------|--------|---|
| LE22 | 60.98 | <i>Acacia harpophylla</i> | 15 | 6.1 | Retain |  |
| LE23 | 46.58 | <i>Acacia harpophylla</i> | 11.5 | 6.5 | Retain |  |
| LE24 | 32.38 | <i>Acacia harpophylla</i> | 5.9 | 13 | Retain |  |
| LE25 | 14.96 | <i>Eucalyptus populnea</i> | 7 | 4.2 | Retain |  |
| LE26-27 | 43.63 | <i>Acacia salicina</i> <i>Eucalyptus camaldulensis</i> | 13 15 | 5.6 5.8 | Remove |  |

| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|------------|---------------------------------|----------|------------|--------|---|
| LE28 | 18.57 | <i>Eucalyptus camaldulensis</i> | 10 | 5.3 | Retain |  |
| LE29 | 13.50 | <i>Acacia salicina</i> | 10 | 5.7 | Retain |  |
| LE30 | 248.91 | <i>Eucalyptus camaldulensis</i> | 59 | 21.5 | Retain |  |
| LE31 | 21.39 | <i>Corymbia clarksoniana</i> | 25 | 8.6 | Retain |  |
| LE32 | 127.84 | <i>Owenia acidula</i> | 47.5 | 10.7 | Retain |  |






| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|------------|---------------------------|----------|------------|--------|---|
| LE33 | 60.75 | <i>Acacia harpophylla</i> | 47 | 12.7 | Retain |  |
| LE34 | 66.90 | <i>Acacia harpophylla</i> | 30 | 8.8 | Retain |  |
| LE35 | 97.42 | <i>Acacia harpophylla</i> | 22 | 7.4 | Remove |  |
| LE36 | 43.55 | <i>Acacia salicina</i> | 31.5 | 10.7 | Retain |  |
| LE37 | 74.57 | <i>Geijera parviflora</i> | 42 | 10.2 | Retain |  |






| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|------------|---------------------------|----------|------------|--------|---|
| LE38 | 34.14 | <i>Owenia acidula</i> | 30.5 | 9.4 | Remove |  |
| LE39 | 90.96 | <i>Acacia harpophylla</i> | 16.5 | 7.6 | Remove |  |
| LE40 | 37.49 | <i>Acacia harpophylla</i> | 14 | 7.2 | Remove |  |
| LE41 | 10.67 | <i>Acacia harpophylla</i> | 19 | 4.6 | Remove |  |
| LE42 | 29.92 | <i>Geijera parviflora</i> | 23 | 5.2 | Remove |  |

| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|------------|---------------------------------|----------|------------|--------|---|
| LE43 | 20.14 | <i>Geijera parviflora</i> | 12 | 4.9 | Remove |  |
| LE44 | 164.44 | <i>Geijera parviflora</i> | 50 | 12.4 | Remove |  |
| LE45 | 24.54 | <i>Owenia acidula</i> | 25 | 7.6 | Remove |  |
| LE46 | 39.29 | <i>Geijera parviflora</i> | 20 | 5.1 | Remove |  |
| LE47 | 39.38 | <i>Eucalyptus camaldulensis</i> | 30.5 | 12 | Remove |  |

| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|------------|----------------------------|----------|------------|--------|---|
| LE48 | 16.99 | <i>Geijera parviflora</i> | 16 | 5.1 | Remove |  |
| LE49 | 121.67 | <i>Geijera parviflora</i> | 47.5 | 8 | Retain |  |
| LE50 | 106.95 | <i>Geijera parviflora</i> | 35 | 8.1 | Remove |  |
| LE51 | 33.35 | <i>Geijera parviflora</i> | 38 | 10.4 | Retain |  |
| LE52 | 53.82 | <i>Eucalyptus populnea</i> | 25.5 | 13.4 | Remove |  |






| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|------------|----------------------------|----------|--------------|--------|---|
| LE53 | 62.04 | <i>Acacia salicina</i> | 40 | 11.6 | Retain |  |
| LE54 | 116.79 | <i>Acacia salicina</i> | 50.5 | 10.6 | Retain |  |
| LE55 | 118.28 | <i>Acacia salicina</i> | 59 | 12.5 | Retain |  |
| LE56-57 | 67.01 | <i>Eucalyptus populnea</i> | 34 47 | 10.7 14.7 | Remove |  |
| LE58 | 53.56 | <i>Eucalyptus populnea</i> | 28 | 15.5 | Retain |  |






| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|------------|--|----------|-------------|--------|---|
| LE59 | 146.2 | <i>Eucalyptus camaldulensis</i> | 59 | 19.8 | Retain |  |
| LE60-61 | 184.1 | <i>Acacia salicina</i> <i>Eucalyptus populnea</i> | 47 53 | 8.8 15.6 | Remove |  |
| LE62-63 | 131.57 | <i>Acacia salicina</i> <i>Eucalyptus populnea</i> | 60 19 | 10.6 8.8 | Remove |  |
| LE64 | 6.89 | <i>Myoporum acuminatum</i> | 11 | 4 | Remove |  |
| LE65 | 4.38 | <i>Eucalyptus tereticornis</i> | 6 | 3.9 | Remove |  |





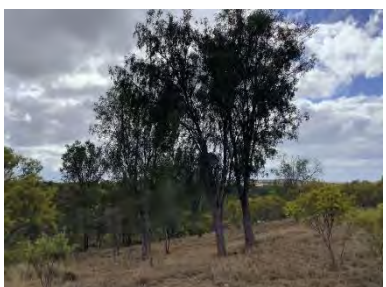
| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|------------|----------------------------------|----------|------------|--------|---|
| LE66 | 7.21 | <i>Acacia salicina</i> | 9 | 4.3 | Retain |  |
| LE67 | 3.51 | <i>Eucalyptus camaldulensis</i> | 6 | 4.5 | Remove |  |
| LE68 | 37.29 | <i>Pittosporum angustifolium</i> | 29 | 7.2 | Remove |  |
| LE69 | 3.34 | <i>Eucalyptus camaldulensis</i> | 8 | 4.6 | Remove |  |
| LE70 | 89.61 | <i>Eucalyptus populnea</i> | 23 | 7.5 | Remove |  |






| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|------------|----------------------------|----------|------------|--------|-------|
| LE71 | 26.43 | <i>Eucalyptus populnea</i> | 26.5 | 11.4 | Remove | |
| LE72 | 101.39 | <i>Acacia salicina</i> | 38 | 12.3 | Retain | |
| LE73 | 129.50 | <i>Acacia salicina</i> | 0 | 8.7 | Retain | |
| LE74 | 98.57 | <i>Geijera parviflora</i> | 53 | 9.2 | Remove | |
| LE75 | 10.86 | <i>Grevillea striata</i> | 17 | 6.7 | Remove | |






| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|------------|---|----------------|--------------------|--------|-------|
| LE76-78 | 37.44 | <i>Corymbia tessellaris</i> <i>Geijera parviflora</i> <i>Geijera parviflora</i> | 28 16 12 | 12.6 5.2 5.5 | Remove | |
| LE79 | 16.18 | <i>Acacia salicina</i> | 24 | 7.6 | Retain | |
| LE80 | 45.15 | <i>Eucalyptus populnea</i> | 17.5 | 12.9 | Retain | |
| LE81-82 | 58.13 | <i>Eucalyptus populnea</i> | 19 18 | 13.2 9 | Retain | |
| LE83 | 7.15 | <i>Eucalyptus populnea</i> | 11.5 | 6.5 | Remove | |






| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|------------|----------------------------|------------|------------|--------|---|
| LE84 | 16.42 | <i>Acacia salicina</i> | 16 | 6.2 | Remove |  |
| LE85 | 44.04 | <i>Eucalyptus populnea</i> | 25 | 10.4 | Remove |  |
| LE86 | 31.85 | <i>Acacia salicina</i> | 25.5 | 8.5 | Retain |  |
| LE87-88 | 91.25 | <i>Casuarina cristata</i> | 22.5 29 | 9 11.1 | Remove |  |
| LE89 | 33.78 | <i>Casuarina cristata</i> | 49 | 11.6 | Remove |  |






| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|------------|----------------------------|----------|------------|--------|---|
| LE90 | 29.95 | <i>Casuarina cristata</i> | 27 | 7.3 | Remove |  |
| LE91 | 46.04 | <i>Casuarina cristata</i> | 36.5 | 10.3 | Remove |  |
| LE92 | 29.10 | <i>Casuarina cristata</i> | 26 | 9.2 | Remove |  |
| LE93 | 10.41 | <i>Eucalyptus populnea</i> | 15 | 7.1 | Remove |  |
| LE94 | 65.93 | <i>Casuarina cristata</i> | 31 | 8 | Remove |  |






| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|------------|--------------------------------|----------|------------|--------|---|
| LE95 | 84.05 | <i>Casuarina cristata</i> | 30 | 8.5 | Remove |  |
| LE96 | 101.61 | <i>Eucalyptus melanophloia</i> | 1.04 | 20.4 | Retain |  |
| LE97 | 109.46 | <i>Owenia acidula</i> | 39 | 10 | Remove |  |
| LE98 | 47.60 | <i>Geijera parviflora</i> | 21.5 | 6.1 | Remove |  |
| LE99-100 | 56.93 | <i>Atalaya hemiglauc</i> | 29 37 | 9.9 11 | Retain |  |






| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|------------|---|----------------|------------------|--------|---|
| LE101 | 19.18 | <i>Atalaya hemiglauca</i> | 24 | 7.7 | Retain |  |
| LE102 | 26.11 | <i>Acacia excelsa</i> | 31 | 7.8 | Retain |  |
| LE103 | 39.11 | <i>Acacia salicina</i> | 25.5 | 10 | Retain |  |
| LE104-106 | 99.83 | <i>Petalostigma pubescens</i> <i>Geijera parviflora</i> <i>Acacia excelsa</i> | 24 27 21 | 5.7 6 8.89 | Retain |  |
| LE107 | 38.06 | <i>Brachychiton populneus</i> | 21 | 8 | Retain |  |






| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|------------|-----------------------------|----------|------------|--------|---|
| LE110 | 64.02 | <i>Geijera parviflora</i> | 28 | 7.2 | Retain |  |
| LE113 | 20.00 | <i>Acacia excelsa</i> | 27 | 5.5 | Retain |  |
| LE114 | 11.63 | <i>Acacia excelsa</i> | 14 | 6.4 | Retain |  |
| LE115 | 16.81 | <i>Geijera parviflora</i> | 20 | 7 | Retain |  |
| LE116 | 95.62 | <i>Santalum lanceolatum</i> | 20 | 9 | Retain |  |





| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|------------|---------------------------------|----------|------------|--------|---|
| LE117 | 81.10 | <i>Eucalyptus camaldulensis</i> | 12 | 6.1 | Retain |  |
| LE118 | 70.30 | <i>Acacia salicina</i> | 15 | 7.6 | Retain |  |
| LE119 | 15.58 | <i>Eucalyptus populnea</i> | 23 | 11.3 | Remove |  |
| LE120 | 6.73 | <i>Eucalyptus camaldulensis</i> | 10 | 5 | Remove |  |
| LE121 | 42.65 | <i>Geijera parviflora</i> | 24 | 5 | Remove |  |






| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|------------|---------------------------------|----------|------------|--------|---|
| LE122 | 24.80 | <i>Corymbia tessellaris</i> | 28 | 9.5 | Retain |  |
| LE123 | 214.11 | <i>Eucalyptus camaldulensis</i> | 57 | 23 | Retain |  |
| LE124 | 6.18 | <i>Acacia salicina</i> | 17 | 4 | Remove |  |
| LE125 | 4.46 | <i>Eucalyptus populnea</i> | 11 | 4 | Remove |  |
| LE126 | 76.28 | <i>Eucalyptus populnea</i> | 33 | 13.5 | Remove |  |

| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|------------|----------------------------|----------|------------|--------|---|
| LE127 | 9.66 | <i>Eucalyptus populnea</i> | 12 | 6.9 | Remove |  |
| LE128 | 15.10 | <i>Acacia excelsa</i> | 13 | 5 | Remove |  |
| LE129 | 35.52 | <i>Casuarina cristata</i> | 41 | 6.1 | Retain |  |
| LE130 | 6.22 | <i>Acacia salicina</i> | 9 | 4.7 | Retain |  |
| LE131 | 9.72 | <i>Eucalyptus populnea</i> | 17.5 | 6.8 | Retain | No photo |
| LE132 | 37.04 | <i>Eucalyptus populnea</i> | 26 | 9.5 | Retain |  |






| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|------------|----------------------------|----------|------------|--------|---|
| LE133 | 22.51 | <i>Eucalyptus populnea</i> | 21 | 7.6 | Retain |  |
| LE134 | 7.66 | <i>Eucalyptus populnea</i> | 14 | 6 | Retain |  |
| LE135 | 10.07 | <i>Eucalyptus populnea</i> | 13.5 | 6.6 | Retain |  |
| LE136 | 58.54 | <i>Eucalyptus populnea</i> | 26.5 | 12 | Retain |  |
| LE137 | 20.22 | <i>Eucalyptus populnea</i> | 21 | 11 | Retain |  |






| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|------------|---------------------------------|----------|------------|--------|---|
| LE138 | 110.63 | <i>Eucalyptus populnea</i> | 31 | 15.2 | Retain |  |
| LE139 | 70.28 | <i>Eucalyptus camaldulensis</i> | 40.5 | 16.3 | Retain |  |
| LE140 | 6.59 | <i>Eucalyptus populnea</i> | 6 | 6.5 | Retain |  |
| LE141 | 8.37 | <i>Eucalyptus populnea</i> | 10 | 6 | Remove |  |
| LE142 | 15.81 | <i>Acacia salicina</i> | 19 | 6.8 | Remove |  |

| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|------------|---------------------------------|----------|-------------|--------|---|
| LE144-145 | 42.45 | <i>Eucalyptus populnea</i> | 14 23 | 8.9 12.2 | Remove |  |
| LE146 | 238.89 | <i>Geijera parviflora</i> | 22 | 5.2 | Retain |  |
| LE147 | 45.82 | <i>Eucalyptus populnea</i> | 30 | 9.9 | Remove |  |
| LE148 | 48.40 | <i>Eucalyptus camaldulensis</i> | 35 | 15.5 | Retain |  |
| LE149 | 39.98 | <i>Eucalyptus populnea</i> | 23 | 9.9 | Remove |  |






| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|------------|----------------------------|----------|------------|--------|---|
| LE150 | 185.07 | <i>Eucalyptus populnea</i> | 74 | 15.6 | Retain |  |
| LE151 | 43.44 | <i>Eucalyptus populnea</i> | 32 | 11.8 | Retain |  |
| LE152 | 251.97 | <i>Eucalyptus populnea</i> | 50 | 18 | Retain |  |
| LE153 | 15.74 | <i>Eucalyptus populnea</i> | 21 | 7 | Retain |  |
| LE154 | 59.90 | <i>Eucalyptus populnea</i> | 32 | 11 | Retain |  |





| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|------------|---------------------------------|----------|------------|--------|-------|
| LE155 | 7.55 | <i>Eucalyptus camaldulensis</i> | 9 | 6 | Retain | |
| LE156 | 5.21 | <i>Eucalyptus camaldulensis</i> | 8 | 5.3 | Retain | |
| LE157 | 2.66 | <i>Eucalyptus camaldulensis</i> | 4 | 4 | Retain | |
| LE158 | 3.44 | <i>Eucalyptus camaldulensis</i> | 5 | 4.2 | Retain | |
| LE159 | 7.49 | <i>Eucalyptus camaldulensis</i> | 5 | 4.1 | Remove | |

| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|------------|---------------------------------|----------|------------|--------|---|
| LE160 | 3.42 | <i>Eucalyptus camaldulensis</i> | 4 | 4 | Remove |  |
| LE161 | 6.88 | <i>Eucalyptus populnea</i> | 7 | 6.5 | Remove |  |
| LE162 | 9.18 | <i>Eucalyptus camaldulensis</i> | 11 | 5.5 | Remove |  |
| LE163 | 11.38 | <i>Eucalyptus populnea</i> | 9 | 4.2 | Retain | No photo |
| LE164 | 12.45 | <i>Eucalyptus camaldulensis</i> | 10 | 4.5 | Remove |  |
| LE165 | 9.06 | <i>Eucalyptus camaldulensis</i> | 13 | 6.1 | Remove |  |

| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|------------|---------------------------------|----------|------------|--------|---|
| LE166 | 10.99 | <i>Eucalyptus camaldulensis</i> | 9 | 4.5 | Remove |  |
| LE167 | 145.32 | <i>Eucalyptus populnea</i> | 29 | 9.7 | Remove |  |
| LE168 | 123.55 | <i>Eucalyptus populnea</i> | 45 | 12.2 | Retain |  |
| LE169 | 6.49 | <i>Eucalyptus populnea</i> | 8 | 4 | Retain |  |
| LE170 | 32.35 | <i>Acacia salicina</i> | 27 | 6.8 | Remove |  |

| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|------------|---------------------------------|----------|------------|--------|---|
| LE171 | 153.27 | <i>Acacia salicina</i> | 32 | 7.1 | Retain |  |
| LE172 | 85.70 | <i>Eucalyptus populnea</i> | 29 | 10 | Retain | No photo |
| LE173 | 325.83 | <i>Acacia salicina</i> | 32 | 12.3 | Retain |  |
| LE174 | 200.75 | <i>Eucalyptus camaldulensis</i> | 48 | 17.1 | Retain |  |
| LE175 | 68.34 | <i>Eucalyptus populnea</i> | 25 | 10 | Retain |  |
| LE176 | 9.90 | <i>Eucalyptus camaldulensis</i> | 8 | 4.5 | Retain | No photo |
| LE177 | 300.67 | <i>Eucalyptus camaldulensis</i> | 37 | 22 | Retain | No photo |

| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|------------|--------------------------------|----------|------------|--------|---|
| RR100 | 491.6 | <i>Acacia salicina</i> | 30 | 10 | Retain |  |
| RR101 | 268.2 | <i>Acacia salicina</i> | 45 | 12 | Retain |  |
| RR102 | 146.9 | <i>Acacia salicina</i> | 28 | 12 | Retain | No Photo |
| RR103 | 10.3 | <i>Acacia salicina</i> | 13 | 5 | Retain |  |
| RR104 | 22.9 | <i>Eucalyptus tereticornis</i> | 14 | 6 | Retain |  |
| RR105 | 88.4 | <i>Geijera parviflora</i> | 33 | 8 | Remove |  |

| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|--------------------|---------------------------|---------------|------------|--------|---|
| RR106 | 2.5 | <i>Acacia excelsa</i> | 10 | 5 | Remove |  |
| RR107 | 56.4 | <i>Geijera parviflora</i> | 34 | 7 | Remove |  |
| RR108 | 27.5 | <i>Owenia acidula</i> | 22 | 6 | Retain |  |
| RR109 | 116.2 | <i>Acacia salicina</i> | 45 | 11 | Retain |  |
| RETAIN | Total (sqm) | | 7563.9 | | | |
| | Total (ha) | | 0.76 | | | |
| REMOVE | Total (sqm) | | 3173.2 | | | |
| | Total (ha) | | 0.32 | | | |

3.5 Landspray Areas – September 2024

The landspray areas surveyed in September 2024 were characterised by cleared paddocks dominated by non-remnant pasture grasses (Figure 3-5 to Figure 3-7). The field surveys found the following in the landspray areas:

- No mapped constraints in the survey area were found to require changes. The survey also confirmed that the proposed disturbance areas do not contain any listed TEC or any TEC within the 50 m buffer area.
- No listed threatened flora were identified within the landspray areas or nearby mapped species habitat.
- One habitat feature was recorded in landspray area 2, a small log pile (Figure 3-8). This log pile will be avoided as landspray does not require clearing, works will be able to be undertaken around the habitat feature. No active searches were required within the disturbance footprint as no other searchable fauna habitat was present (mapped as constraints or identified during the survey).
- Hairyflower Lovegrass (*Eragrostis trichphora*) is widespread across the Bellaringa property, however there is a high coverage of the exotic grass in landspray area 3. Several velvety tree pears (*Opuntia tomentosa*) were also noted within the landspray areas.



Figure 3-5 Landspray Area 1



Figure 3-6 Landspray Area 2



Figure 3-7 Landspray Area 3








Figure 3-8 Log pile in Landspray Area 2

3.5.1 Ground-truthed koala dispersal trees

Table 3-2 provides the results including canopy cover, height and DBH of the trees assessed in the field in koala dispersal areas. All trees were marked, and all can be avoided as landspray does not require clearing, works will be able to be undertaken around the trees. All trees have been recorded as “retain” and will be avoided during landspray operations. Mapping of each location (Desktop ID) are shown in Appendix A.

Table 3-2 Dispersal habitat trees in proposed landspray areas

| Location (Desktop ID) | Area (sqm) | Species | DBH (cm) | Height (m) | Action | Photo |
|-----------------------|-------------|--------------------------------|----------|------------|--------|---|
| AS01 | 22.1 | <i>Brachychiton rupestris</i> | 28 | 7 | Retain |  |
| AS02 | 1.4 | <i>Eucalyptus populnea</i> | 10 | 4 | Retain |  |
| AS05 | 5.6 | <i>Eucalyptus melanophloia</i> | 10 | 5 | Retain |  |
| AS06 | 19.6 | <i>Acacia salicina</i> | 17 | 4 | Retain |  |
| AS07 | 40.3 | <i>Acacia salicina</i> | 23 | 4 | Retain |  |
| Remove area: | Total (sqm) | | 0 | | | |
| | Total (ha) | | 0 | | | |

4 Discussion

The surveys on the Bellaringa property found that the project impacts to koala dispersal habitat would be minimal, with a total of 0.32 ha (**3,173.2** m²) to be potentially cleared. This impact is across the approximately 92 ha disturbance footprint on the property, including well pads, gathering, workspaces and laydowns. The majority of the impact footprint is located within predominantly cleared agricultural areas and Senex has actively avoided patches of remnant and regrowth vegetation, as well as individual paddock trees, resulting in retaining at least 0.76 ha (or **7,563.9** m²) in close proximity to the alignment. In all cases, trees are retained within close proximity to those that are unable to be avoided, and the clearing of 0.32 ha is unlikely to have a significant effect on the ecological function of dispersal habitat on the property for koalas. Adjacent areas of dispersal habitat avoided are shown in Figure 4-1.

Threatened flora searches found no threatened species within or in proximity to the impact footprint. No threatened flora was encountered during the survey and no TECs are present within the disturbance footprint or the 30 m buffer. No remnant or HVR regulated vegetation, potential threatened fauna habitat or environmentally sensitive areas (ESAs) are present within the disturbance footprint. The area is known echidna and koala dispersal area and other least concern species were observed in the area during the surveys. It is recommended that a qualified fauna spotter catcher should undertake a preclearance survey across the disturbance footprint to identify habitat features prior to clearing and be present during clearing works to check habitat features and relocate fauna, and where possible habitat features in order to minimise impacts to fauna.



Figure 4-1 Example images of retained dispersal habitat adjacent to the disturbance footprint

4.1 Landspray Areas – September 2024

The three landspray areas had minimal native trees, with only five koala habitat dispersal trees between 4 m – 7 m in height, being mapped. Area 3 was dominated by African lovegrass (*Eragrostis curvula*), which will need to be considered when using site for landspray to ensure the weed is not spread.

Appendix A – Mapping

783950

784000

784050

784100

784150

784200

784250

7092450

7092400

7092350

7092300

7092450

7092400

7092350

7092300

783950

784000

784050

784100

784150

784200

784250



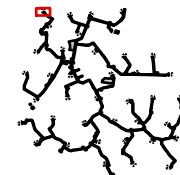
FIGURE A-1:
Bellaringa Ground-Truthed
Tree Extents

- Roads
- Proposed ROW
- Proposed Extra Workspaces

- Proposed Wellpads
- Wellpad Earthworks Extent
- No Go Area
- High Constraint Area

- Potential Landspray Area
- Ground-Truthed Tree Centrepont
- Retain
- Remove

- Dripline Extent
- Retain
- Remove



| REVISION | AUTHOR | REVIEWER | DATE |
|----------|--------|----------|------------|
| 5 | NC | BO | 11/02/2025 |

GDA2020 MGA Zone 55
Scale: 1:1,250

0 15 30
Metres

784200

784250

784300

784350

784400

784450

784500

7092200

7092150

7092100

7092050

7092200

7092150

7092100

7092050

784200

784250

784300

784350

784400

784450

784500



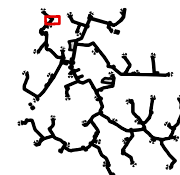
FIGURE A-2:
Bellaringa Ground-Truthed
Tree Extents

- Turnout Impact Footprint
- Turnout Survey Area
- Roads
- Proposed ROW

- Proposed Extra Workspaces
- Wellpad Earthworks Extent
- Track Corridors
- No Go Area

- High Constraint Area
- Potential Landspray Area
- Ground-Turthed Tree Centrepoint
- Retain

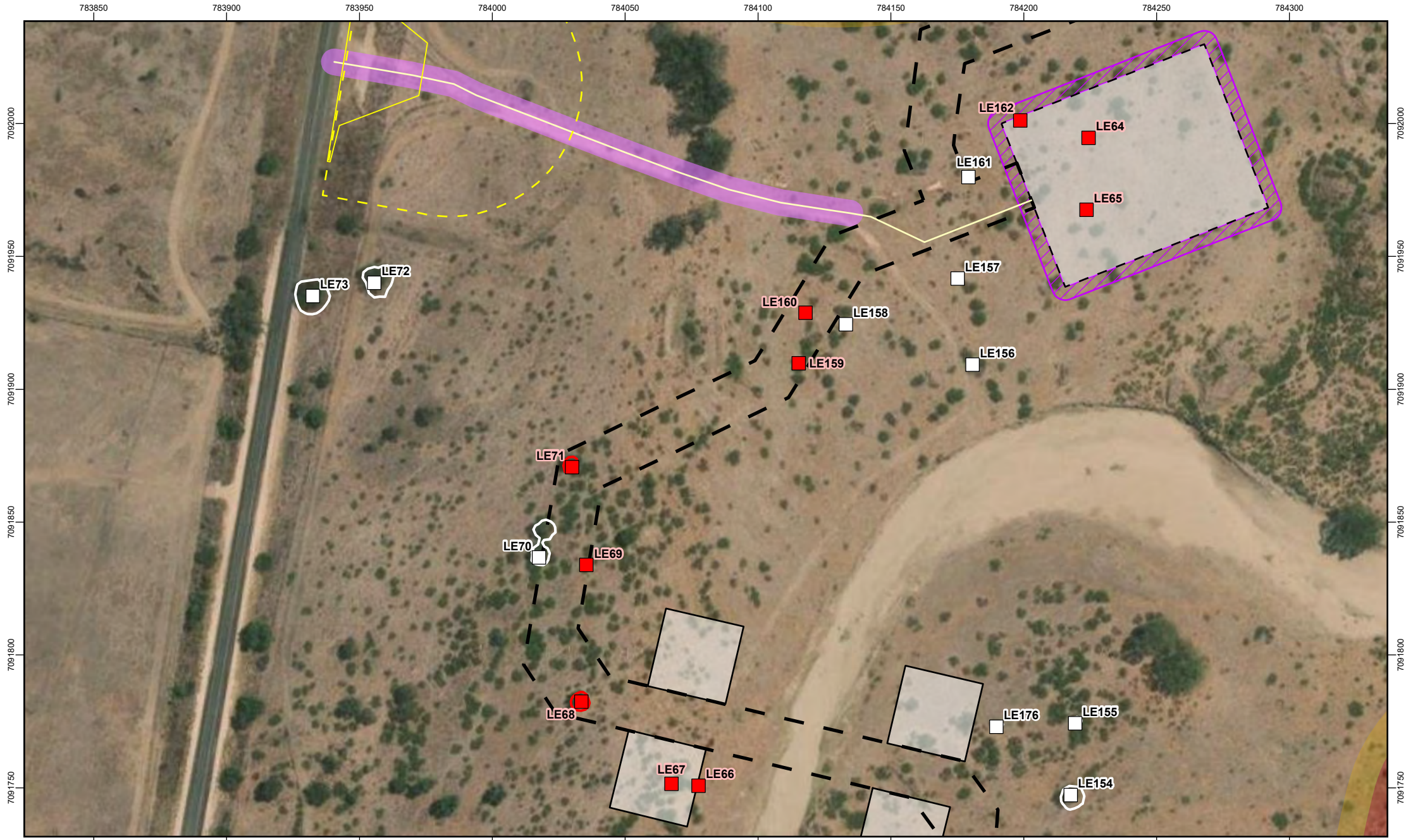
- Remove
- Dripline Extent
- Retain
- Remove



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GDA2020 MGA Zone 55
Scale: 1:1,250

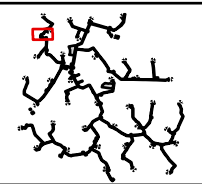
0 15 30
Metres



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 a niche company

FIGURE A-3:
 Bellaringa Ground-Truthed
 Tree Extents

| | | | |
|--------------------------|---------------------------|---------------------------------|-----------------|
| Turnout Impact Footprint | Proposed Extra Workspaces | No Go Area | Remove |
| Turnout Survey Area | Proposed Wellpads | High Constraint Area | Dripline Extent |
| Roads | Wellpad Earthworks Extent | Potential Landspray Area | Retain |
| Proposed ROW | Track Corridors | Ground-Truthed Tree Centrepoint | Remove |
| | | Retain | |



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GDA2020 MGA Zone 55
 Scale: 1:1,800

0 25 50
 Metres

N

784850 784900 784950 785000 785050 785100

7091800

7091750

7091700

7091800

7091750

7091700

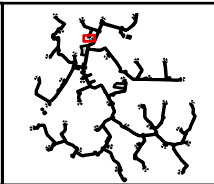


784850 784900 784950 785000 785050 785100

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FIGURE A-4:
Bellaringa Ground-Truthed Tree Extents

| | | | |
|---------------------------|---------------------------|---------------------------------|-----------------|
| Roads | Wellpad Earthworks Extent | Potential Landspray Area | Dripline Extent |
| Proposed ROW | Track Corridors | Ground-Truthed Tree Centrepoint | Retain |
| Proposed Extra Workspaces | No Go Area | Retain | Remove |
| Proposed Wellpads | High Constraint Area | Remove | |

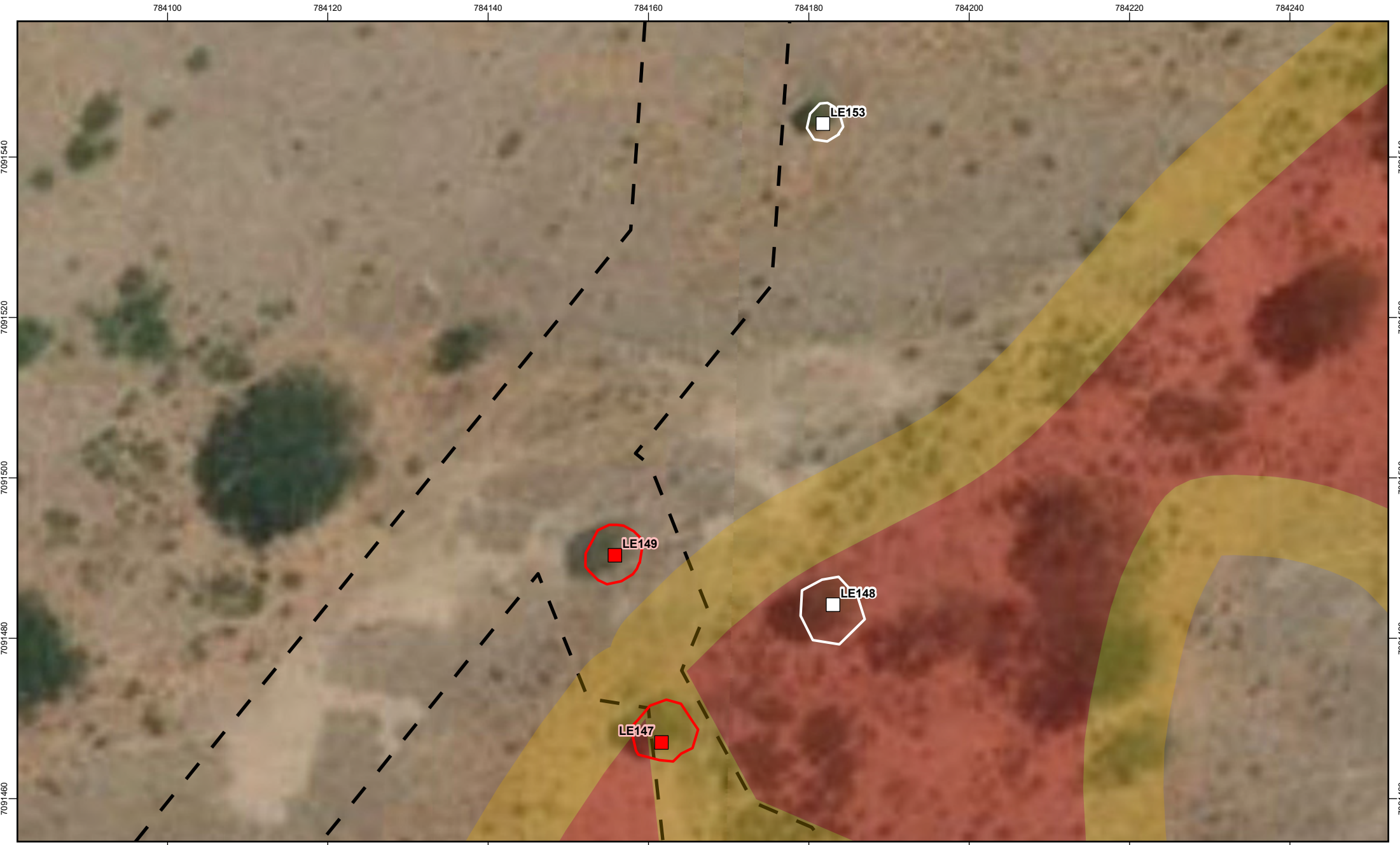


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GDA2020 MGA Zone 55
Scale: 1:1,000

0 15 30
Metres

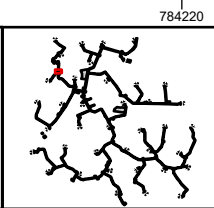
N



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 a niche company

FIGURE A-5:
 Bellaringa Ground-Truthed
 Tree Extents

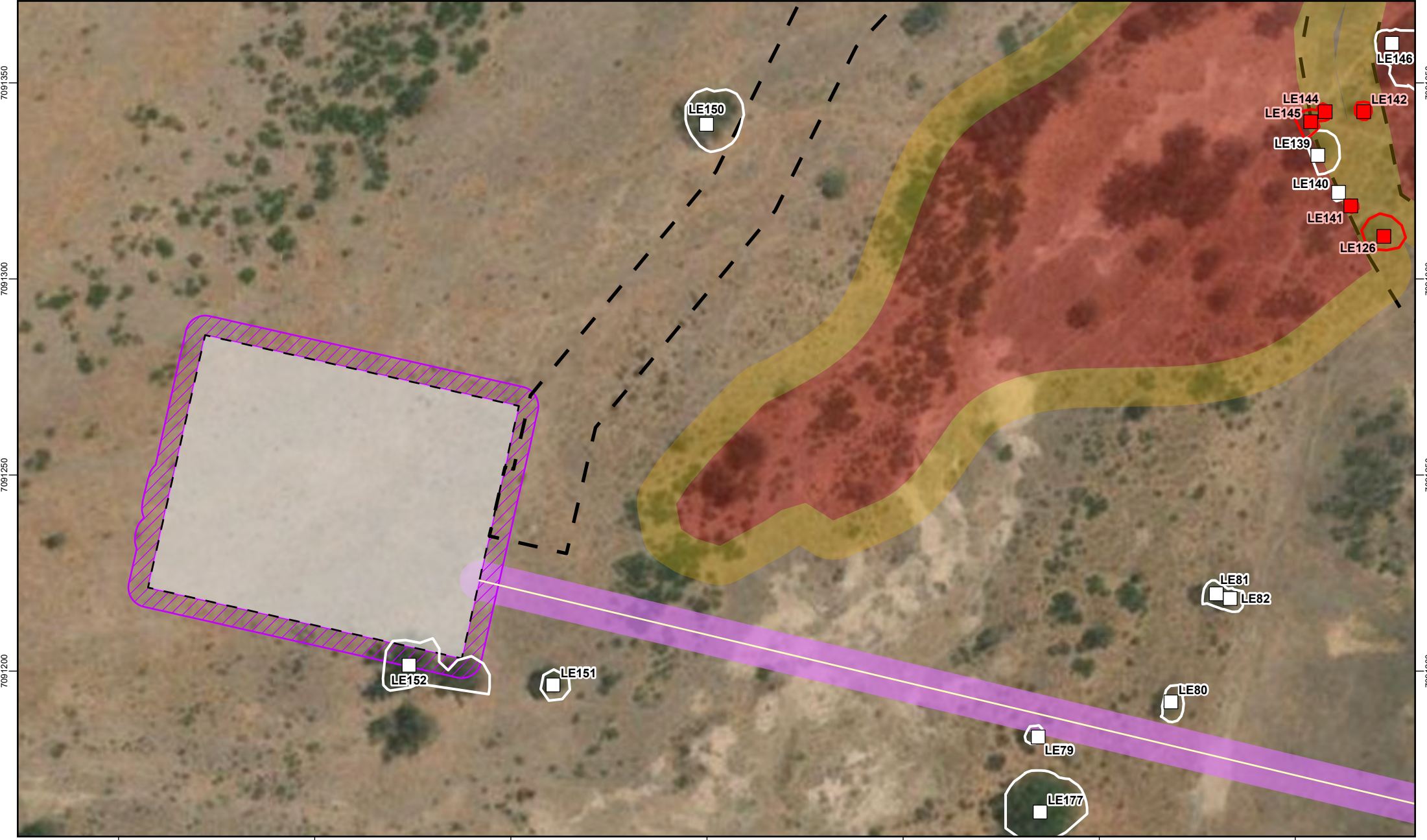
| | | |
|---------------------------|--|------------------------|
| Proposed ROW | Potential Landspray Area | Dripline Extent Retain |
| Proposed Extra Workspaces | Ground-Truthed Tree Centrepoint Retain | Dripline Extent Remove |
| No Go Area | Retain | |
| High Constraint Area | Remove | |



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| 5 | NC | BO | 11/02/2025 |

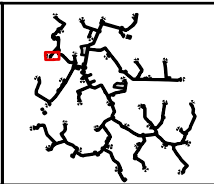
GDA2020 MGA Zone 55
 Scale: 1:600

783850 783900 783950 784000 784050 784100 784150



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 a niche company
FIGURE A-6:
 Bellaringa Ground-Truthed
 Tree Extents

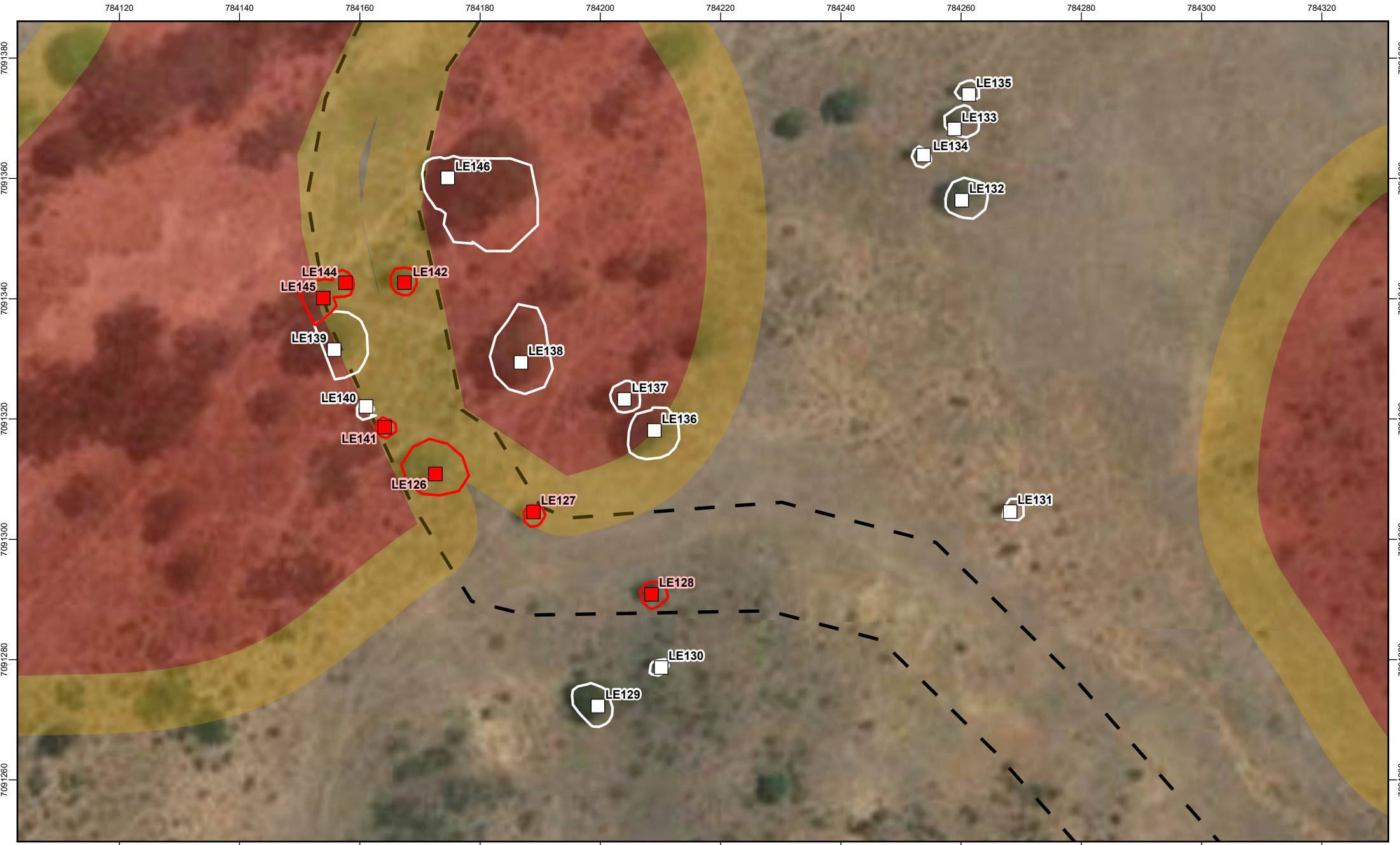
| | | | |
|---------------------------|---------------------------|--|------------------------|
| Roads | Wellpad Earthworks Extent | Potential Landspray Area | Dripline Extent |
| Proposed ROW | Track Corridors | Ground-Truthed Tree Centrepoint | Retain |
| Proposed Extra Workspaces | No Go Area | Retain | Remove |
| Proposed Wellpads | High Constraint Area | Remove | |



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GDA2020 MGA Zone 55
 Scale: 1:1,250

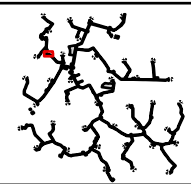
0 15 30
 Metres



Ausecology
 a niche company

FIGURE A-7:
 Bellaringa Ground-Truthed
 Tree Extents

| | | | | | |
|--|---------------------------|--|---------------------------------|--|-----------------|
| | Proposed ROW | | Potential Landspray Area | | Dripline Extent |
| | Proposed Extra Workspaces | | Ground-Truthed Tree Centrepoint | | Retain |
| | No Go Area | | Retain | | Remove |
| | High Constraint Area | | Remove | | |



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GDA2020 MGA Zone 55
 Scale: 1:800

784450

784500

784550

784600

784650

784700

7091350

7091300

7091250

7091200

7091350

7091300

7091250

7091200



FIGURE A-8:

Bellaringa Ground-Truthed Tree Extents

Roads

Proposed ROW

Proposed Extra Workspaces

Proposed Wellpads

Wellpad Earthworks Extent

No Go Area

High Constraint Area

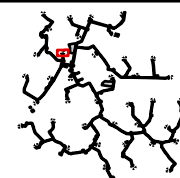
Potential Landspray Area

Ground-Truthed Tree Centrepoint

Remove

Dripline Extent

Remove



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|----------|--------|----------|------------|
| 5 | NC | BO | 11/02/2025 |

GDA2020 MGA Zone 55
Scale: 1:1,000

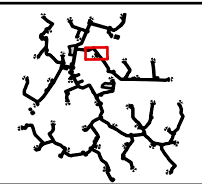
0 15 30
Metres



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FIGURE A-9:
 Bellaringa Ground-Truthed
 Tree Extents

| | | | |
|---------------------------|---------------------------|---------------------------------|-----------------|
| Roads | Wellpad Earthworks Extent | Potential Landspray Area | Dripline Extent |
| Proposed ROW | Track Corridors | Ground-Truthed Tree Centrepoint | Retain |
| Proposed Extra Workspaces | No Go Area | Retain | Remove |
| Proposed Wellpads | High Constraint Area | Remove | |



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GDA2020 MGA Zone 55
 Scale: 1:2,000

0 30 60
 Metres

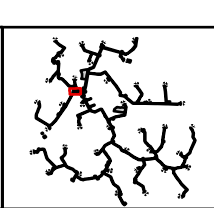
N



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FIGURE A-10:
 Bellaringa Ground-Truthed
 Tree Extents

| | | |
|---------------------------|--------------------------|--|
| Roads | No Go Area | Ground-Truthed Tree Centrepoint |
| Proposed ROW | High Constraint Area | Remove |
| Proposed Extra Workspaces | Potential Landspray Area | Dripline Extent |
| Track Corridors | | Remove |

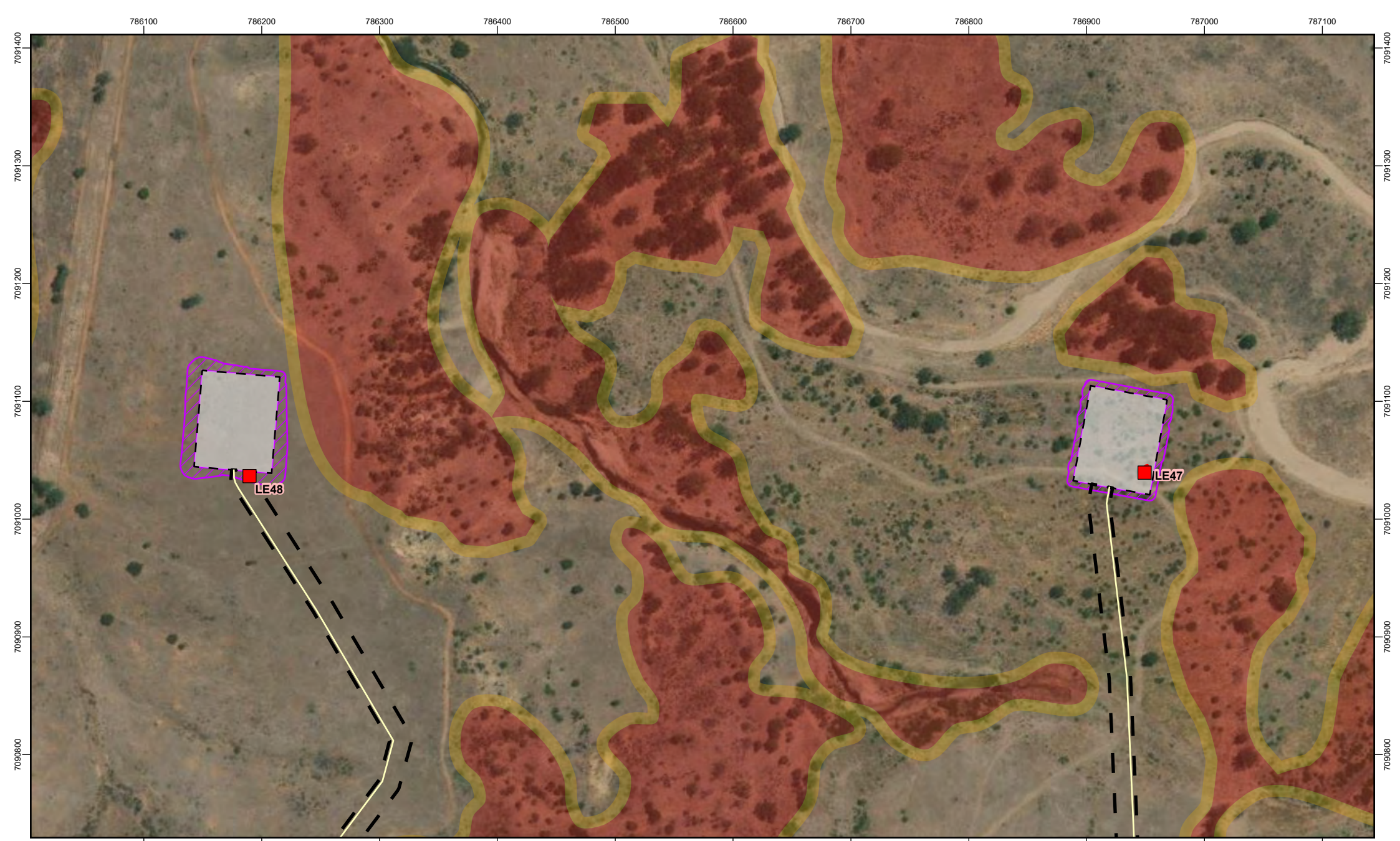


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| 5 | NC | BO | 11/02/2025 |

GDA2020 MGA Zone 55
 Scale: 1:1,000





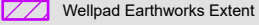

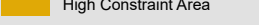
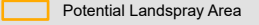


0 15 30
 Metres

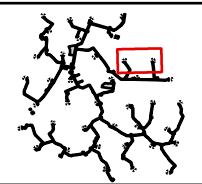
N



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FIGURE A-11:
 Bellaringa Ground-Truthed
 Tree Extents

-  Roads
-  Proposed ROW
-  Proposed Extra Workspaces
-  Proposed Wellpads
-  Wellpad Earthworks Extent
-  No Go Area
-  High Constraint Area
-  Potential Landspray Area
- Ground-Truthed Tree Centrepoint**
-  Remove
- Dripline Extent**
-  Remove

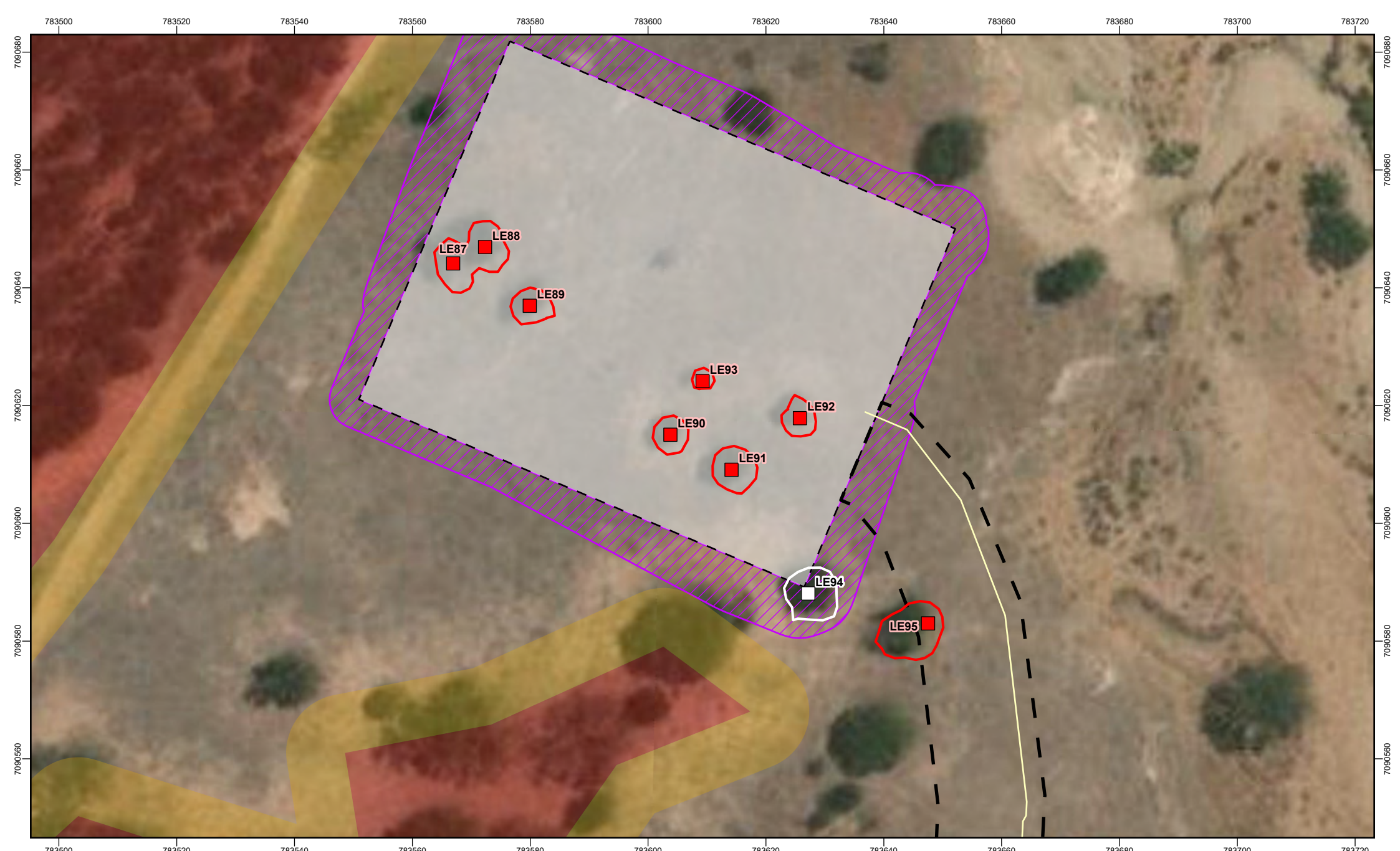


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|----------|--------|----------|------------|
| 5 | NC | BO | 11/02/2025 |

GDA2020 MGA Zone 55
 Scale: 1:4,000

0 60 120
 Metres

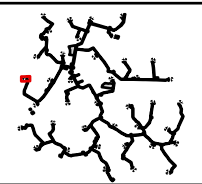
N



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FIGURE A-12:
 Bellaringa Ground-Truthed
 Tree Extents

| | | | |
|---------------------------|---------------------------|---------------------------------|-----------------|
| Roads | Proposed Wellpads | Potential Landspray Area | Dripline Extent |
| Proposed ROW | Wellpad Earthworks Extent | Ground-Turthed Tree Centrepoint | Retain |
| Proposed Extra Workspaces | No Go Area | Retain | Remove |
| | High Constraint Area | Remove | |

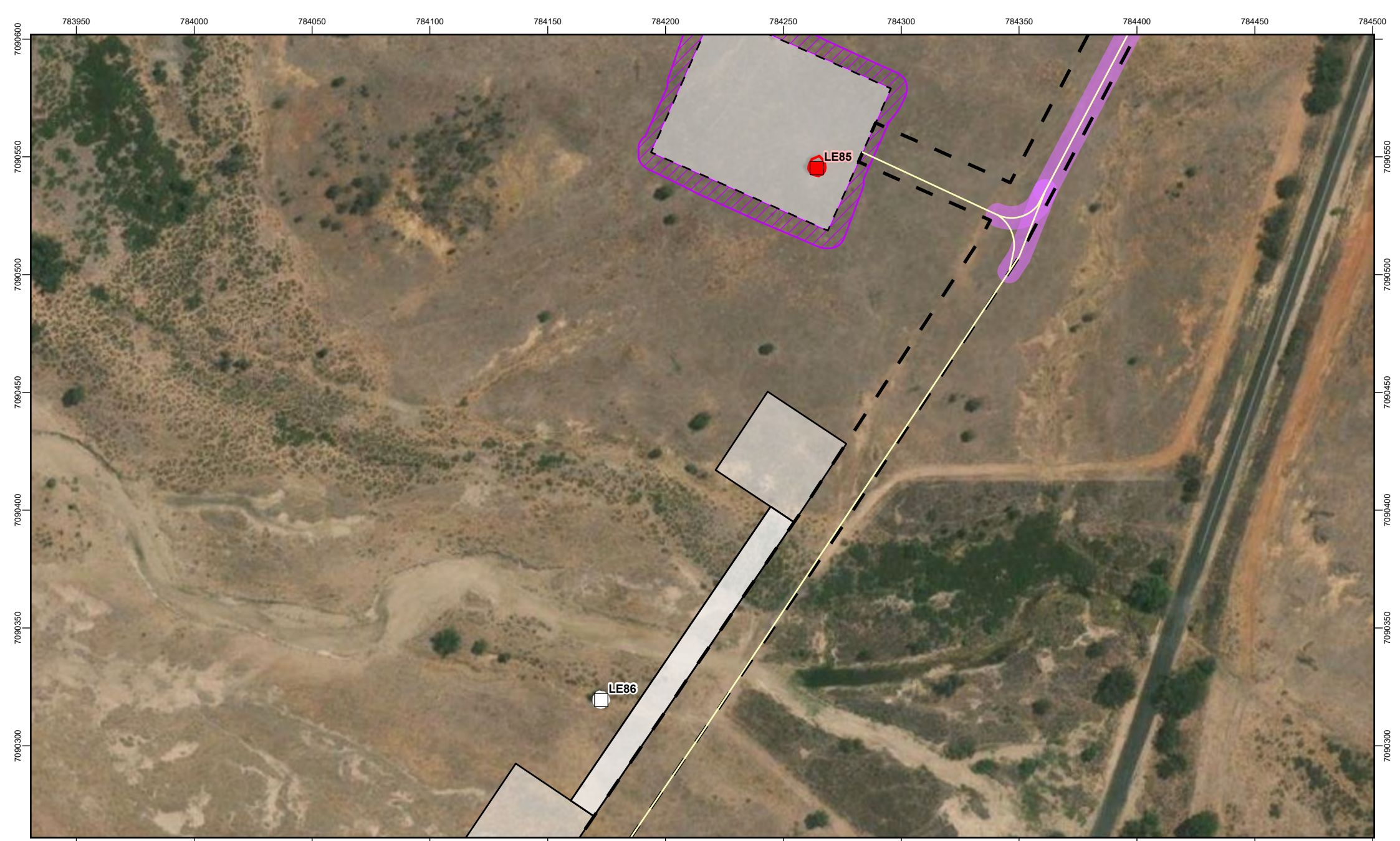


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| 5 | NC | BO | 11/02/2025 |

GDA2020 MGA Zone 55
 Scale: 1:800

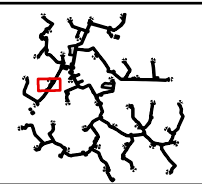
0 10 20
 Metres

N



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FIGURE A-13:
 Bellaringa Ground-Truthed
 Tree Extents

| | | |
|---------------------------|---------------------------|---------------------------------|
| Roads | Wellpad Earthworks Extent | Potential Landspray Area |
| Proposed ROW | Track Corridors | Ground-Truthed Tree Centrepoint |
| Proposed Extra Workspaces | No Go Area | Retain |
| Proposed Wellpads | High Constraint Area | Remove |
| | | Retain |
| | | Remove |



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GDA2020 MGA Zone 55
 Scale: 1:2,000

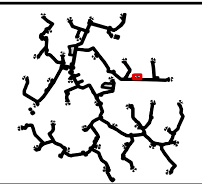
0 30 60
 Metres

N



FIGURE A-14:
Bellaringa Ground-Truthed
Tree Extents

- Proposed ROW
- Proposed Extra Workspaces
- Proposed Wellpads
- Wellpad Earthworks Extent
- No Go Area
- High Constraint Area
- Potential Landspray Area
- Ground-Turthed Tree Centrepoint
- Retain
- Dripline Extent
- Retain



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|----------|--------|----------|------------|
| 5 | NC | BO | 11/02/2025 |

GDA2020 MGA Zone 55
Scale: 1:700

783450 783500 783550 783600 783650 783700

7090350
7090300
7090250
7090200

7090350
7090300
7090250
7090200

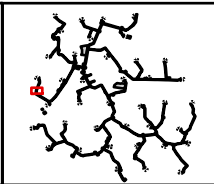


783450 783500 783550 783600 783650 783700

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FIGURE A-15:
Bellaringa Ground-Truthed Tree Extents

| | | |
|---------------------------|--------------------------|---------------------------------|
| Roads | No Go Area | Ground-Truthed Tree Centrepoint |
| Proposed ROW | High Constraint Area | Retain |
| Proposed Extra Workspaces | Potential Landspray Area | Dripline Extent |
| Track Corridors | | Retain |



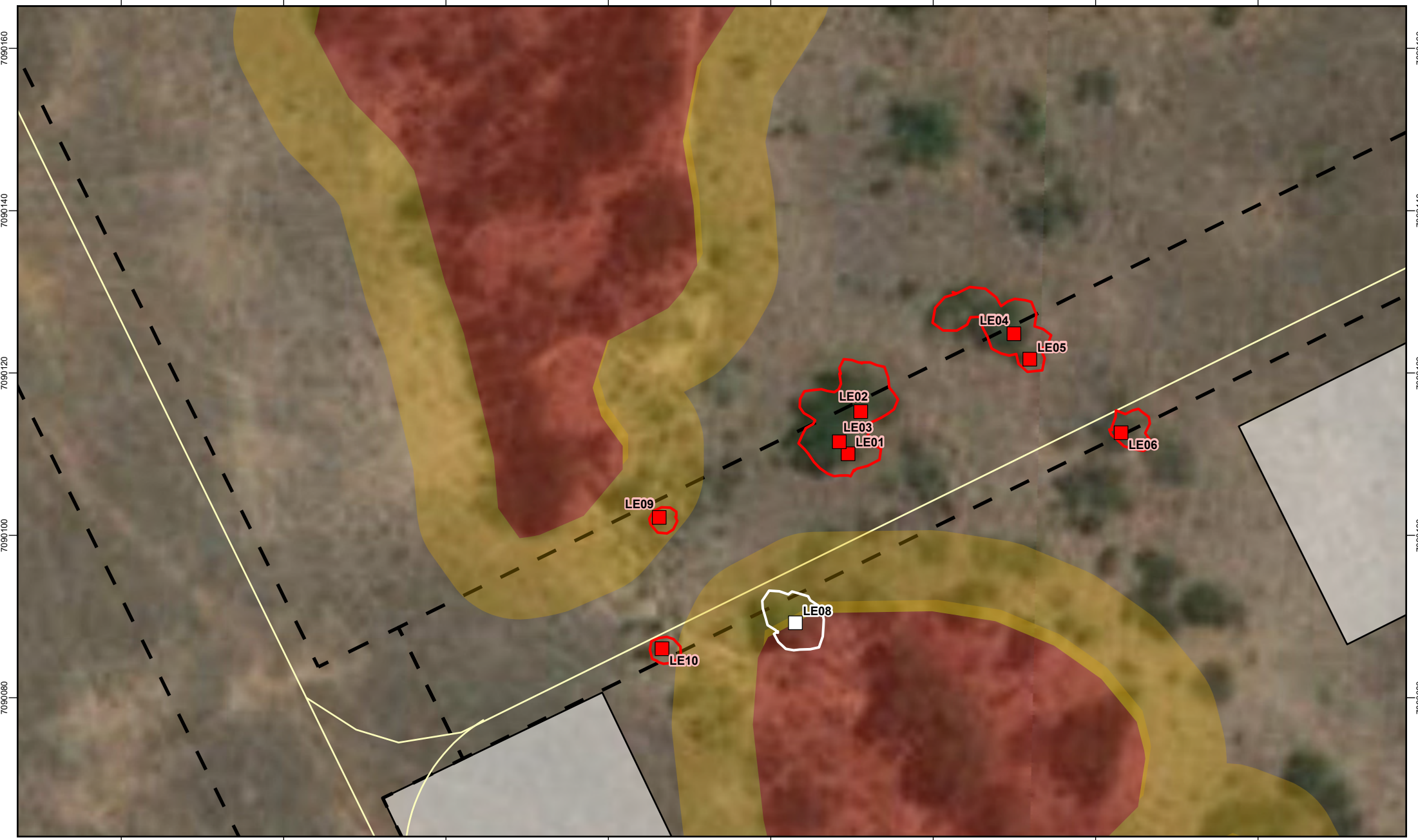
| REVISION | AUTHOR | REVIEWER | DATE |
|----------|--------|----------|------------|
| 5 | NC | BO | 11/02/2025 |

GDA2020 MGA Zone 55
Scale: 1:1,000

0 15 30
Metres

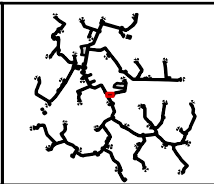
785400 785420 785440 785460 785480 785500 785520 785540

785400 785420 785440 785460 785480 785500 785520 785540



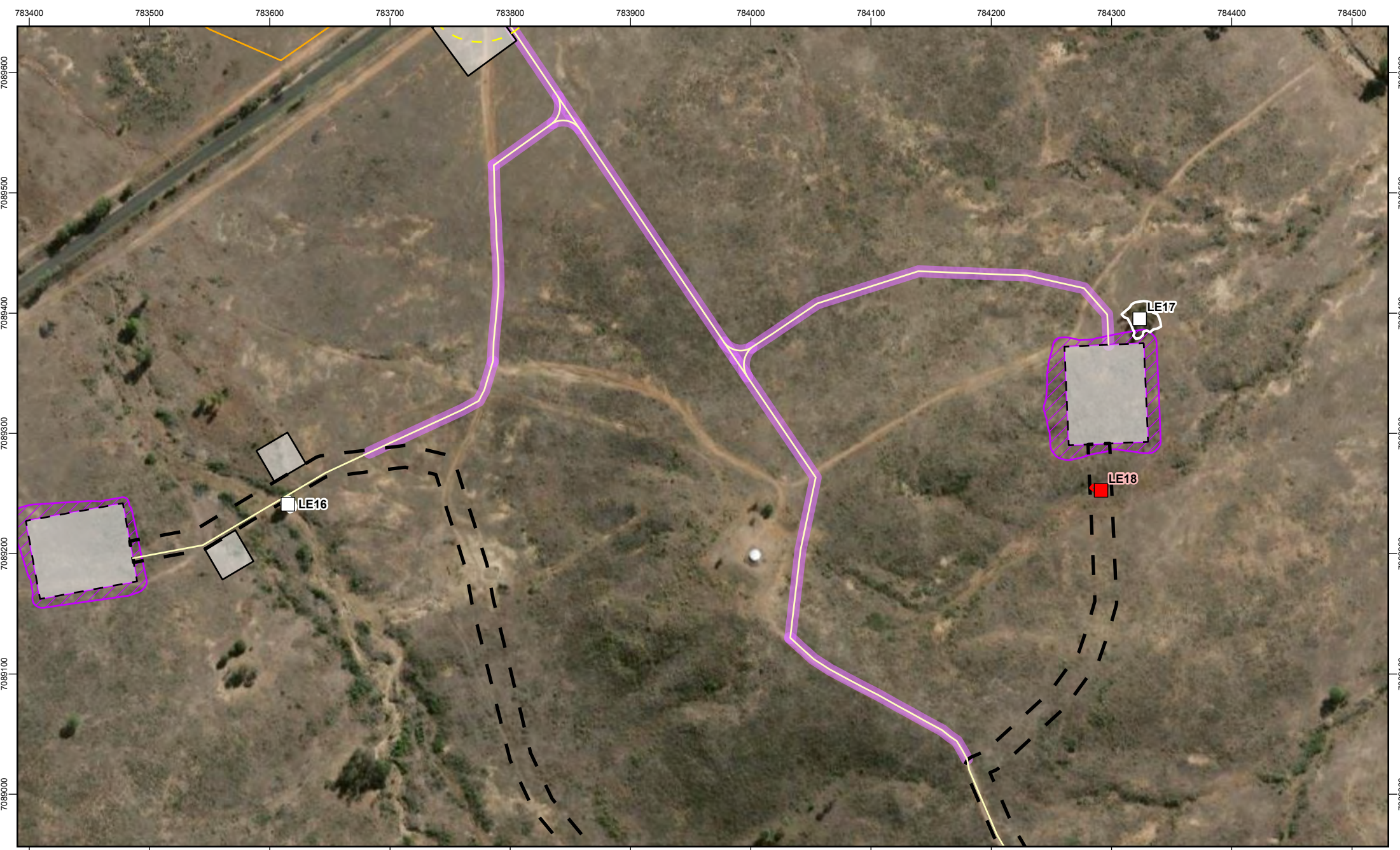
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FIGURE A-16:
 Bellaringa Ground-Truthed
 Tree Extents

| | | |
|---------------------------|---------------------------------|-----------------|
| Roads | High Constraint Area | Remove |
| Proposed ROW | Potential Landspray Area | Dripline Extent |
| Proposed Extra Workspaces | Ground-Turthed Tree Centrepoint | Retain |
| No Go Area | Retain | Remove |



| REVISION | AUTHOR | REVIEWER | DATE |
|----------|--------|----------|------------|
| 5 | NC | BO | 11/02/2025 |

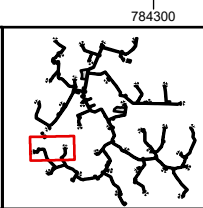
GDA2020 MGA Zone 55
 Scale: 1:600



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FIGURE A-17:
 Bellaringa Ground-Truthed
 Tree Extents

| | | | |
|---------------------------|---------------------------|---------------------------------|-----------------|
| Turnout Survey Area | Proposed Wellpads | High Constraint Area | Remove |
| Roads | Wellpad Earthworks Extent | Potential Landspray Area | Dripline Extent |
| Proposed ROW | Track Corridors | Ground-Turthed Tree Centrepoint | Retain |
| Proposed Extra Workspaces | No Go Area | Retain | Remove |



| REVISION | AUTHOR | REVIEWER | DATE |
|----------|--------|----------|------------|
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GDA2020 MGA Zone 55
 Scale: 1:4,000

0 60 120
 Metres

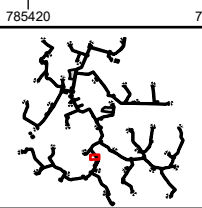
N



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FIGURE A-18:
 Bellingina Ground-Truthed
 Tree Extents

| | | |
|---------------------|---------------------------|--------------------------|
| Flora Search Tracks | Proposed Extra Workspaces | High Constraint Area |
| Roads | Track Corridors | Potential Landspray Area |
| Proposed ROW | No Go Area | |

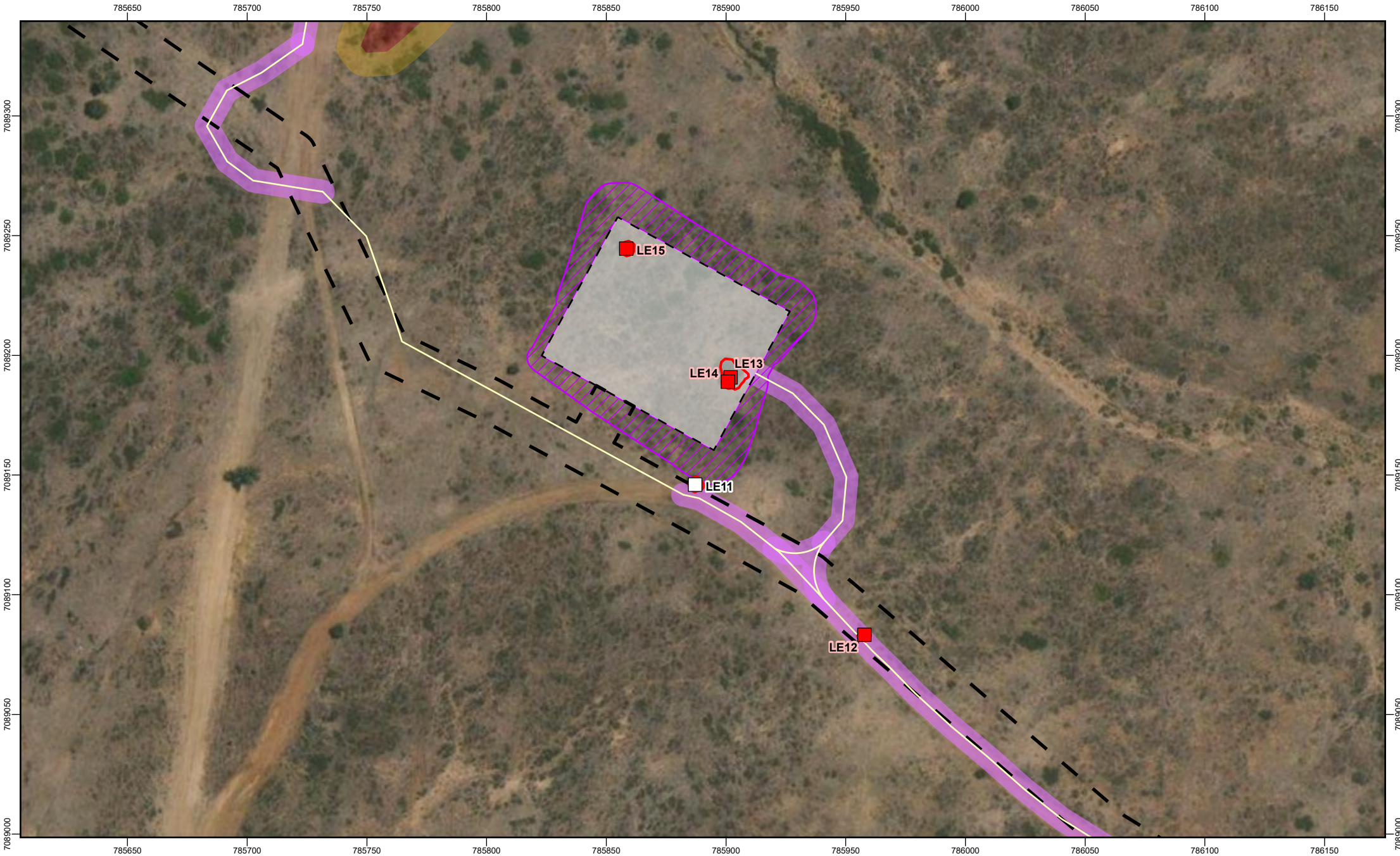


| REVISION | AUTHOR | REVIEWER | DATE |
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GDA2020 MGA Zone 55
 Scale: 1:800

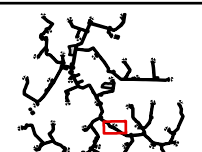
0 10 20
 Metres

N



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FIGURE A-19:
 Bellaringa Ground-Truthed
 Tree Extents

| | | | |
|---------------------------|---------------------------|---------------------------------|-----------------|
| Roads | Proposed Wellpads | High Constraint Area | Remove |
| Proposed ROW | Wellpad Earthworks Extent | Potential Landspray Area | Dripline Extent |
| Proposed Extra Workspaces | Track Corridors | Ground-Truthed Tree Centrepoint | Remove |
| | No Go Area | Retain | |



| REVISION | AUTHOR | REVIEWER | DATE |
|----------|--------|----------|------------|
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GDA2020 MGA Zone 55
 Scale: 1:2,000

0 30 60
 Metres

N

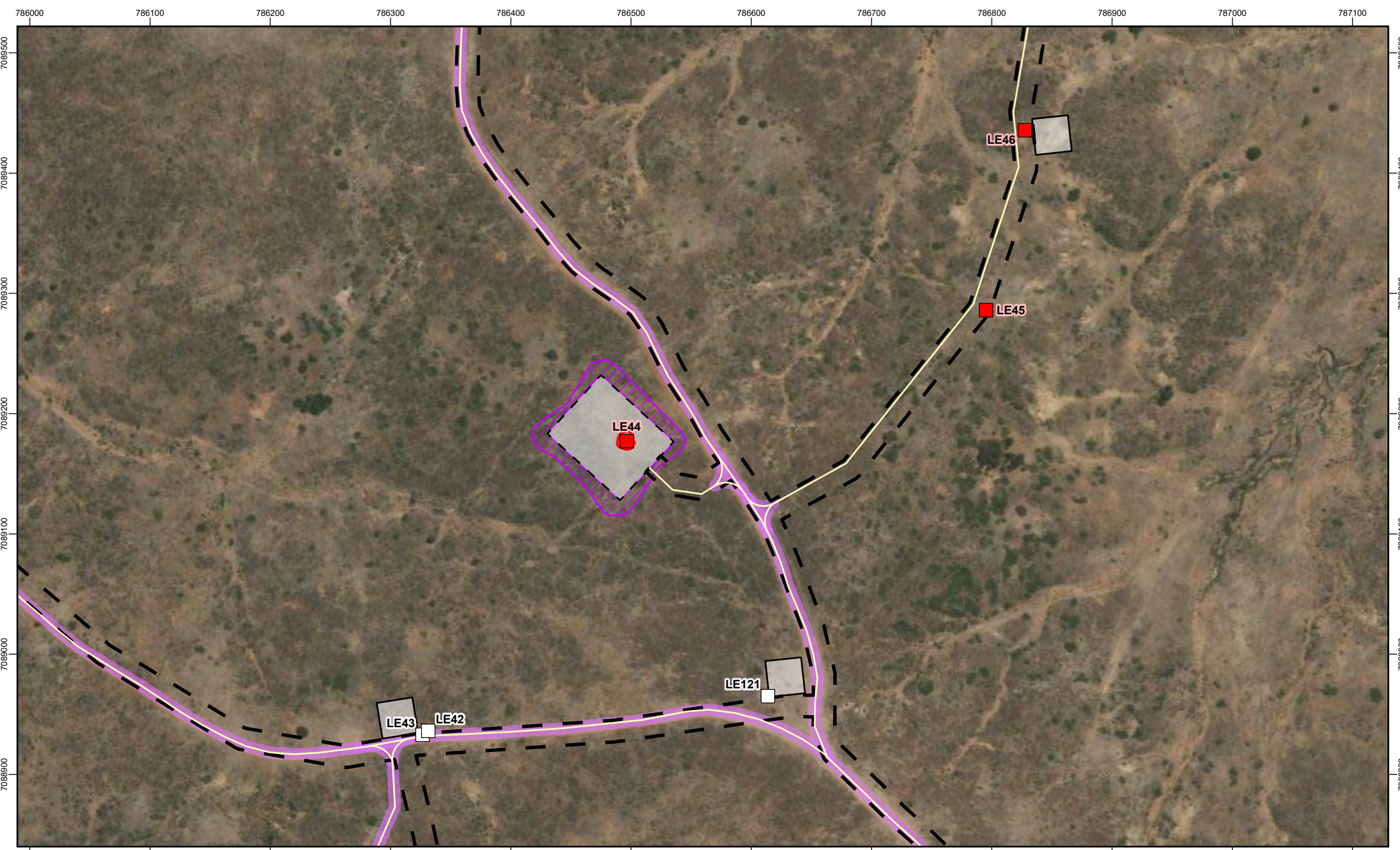
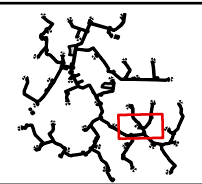


FIGURE A-20:
 Bellaringa Ground-Truthed
 Tree Extents

| | | | |
|---------------------------|---------------------------|---------------------------------|-----------------|
| Roads | Proposed Wellpads | High Constraint Area | Remove |
| Proposed ROW | Wellpad Earthworks Extent | Potential Landspray Area | Dripline Extent |
| Proposed Extra Workspaces | Track Corridors | Ground-Truthed Tree Centrepoint | Remove |
| | No Go Area | Retain | |



| REVISION | AUTHOR | REVIEWER | DATE |
|----------|--------|----------|------------|
| 5 | NC | BO | 11/02/2025 |

GDA2020 MGA Zone 55
 Scale: 1:4,000

0 60 120
 Metres

N

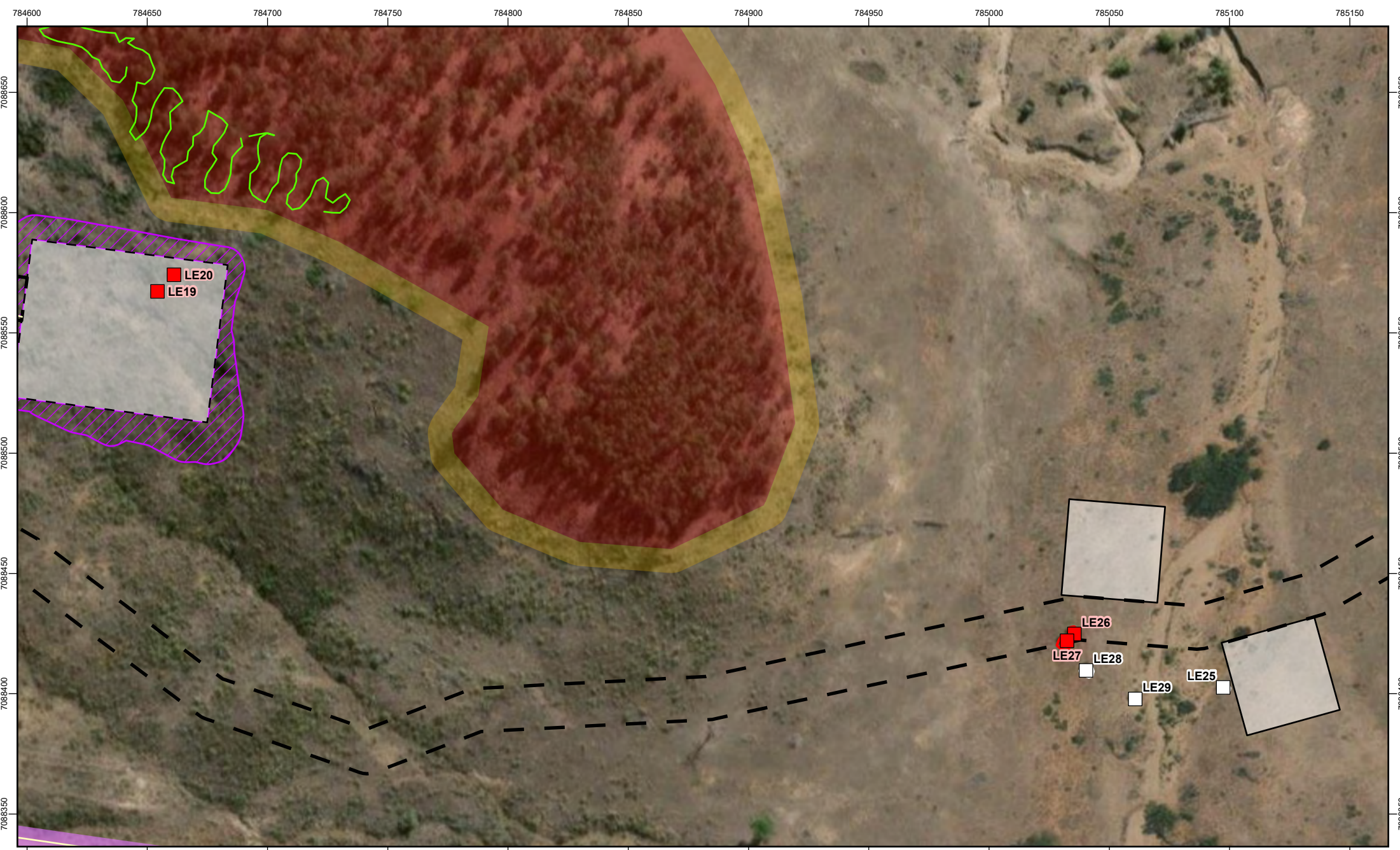
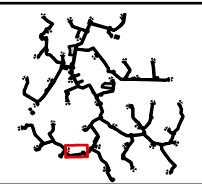


FIGURE A-21:
Bellaringa Ground-Truthed
Tree Extents

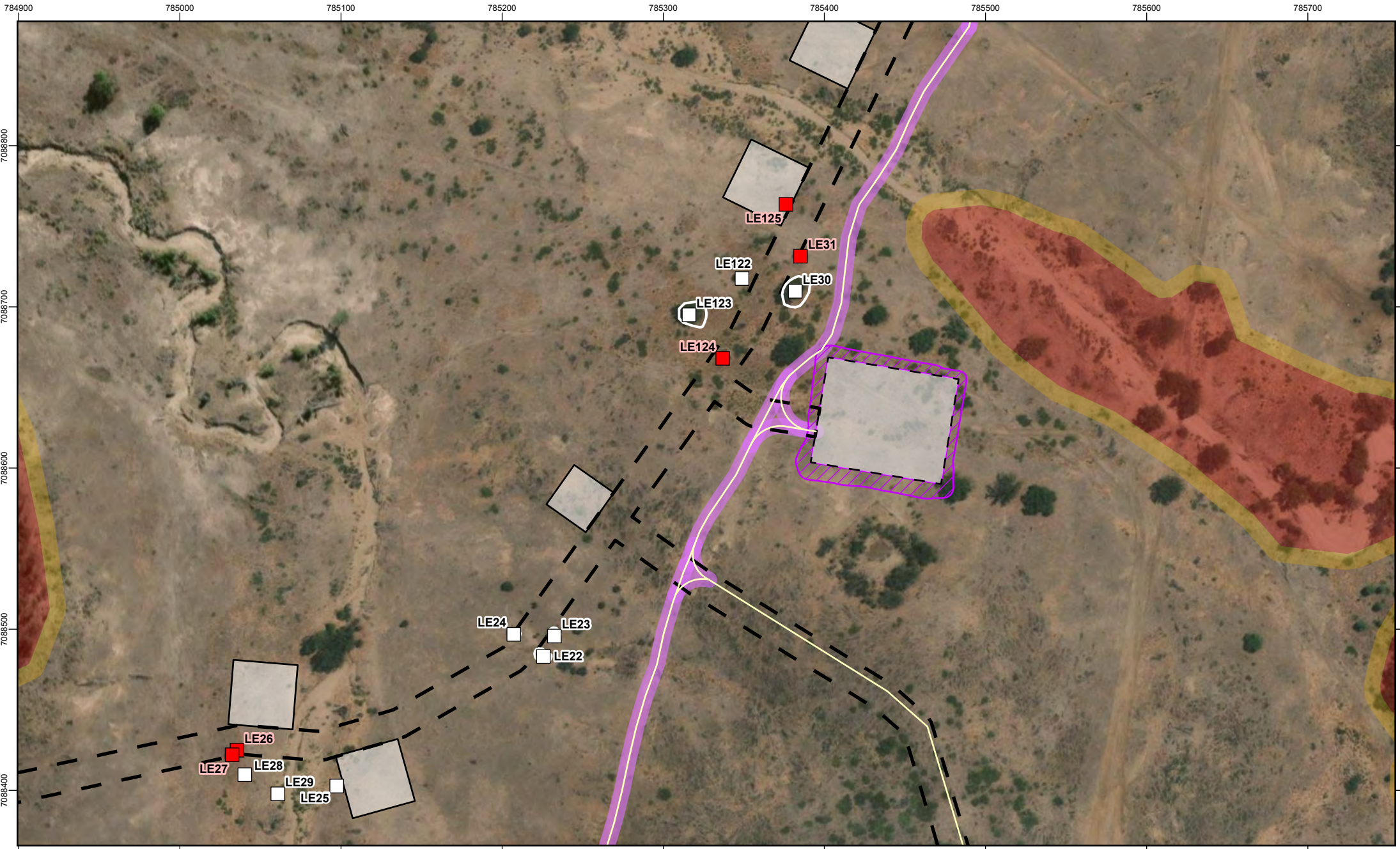
- | | | | |
|---------------------------|---------------------------|---------------------------------|-----------------|
| Flora Search Tracks | Proposed Wellpads | High Constraint Area | Remove |
| Roads | Wellpad Earthworks Extent | Potential Landspray Area | Dripline Extent |
| Proposed ROW | Track Corridors | Ground-Turthed Tree Centrepoint | Retain |
| Proposed Extra Workspaces | No Go Area | Retain | Remove |



| REVISION | AUTHOR | REVIEWER | DATE |
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GDA2020 MGA Zone 55
Scale: 1:2,000

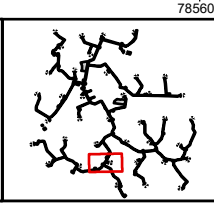
0 30 60
Metres



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FIGURE A-22:
 Bellaringa Ground-Truthed Tree Extents

| | | | |
|---------------------------|---------------------------|---------------------------------|-----------------|
| Roads | Wellpad Earthworks Extent | Potential Landspray Area | Dripline Extent |
| Proposed ROW | Track Corridors | Ground-Truthed Tree Centrepoint | Retain |
| Proposed Extra Workspaces | No Go Area | Retain | Remove |
| Proposed Wellpads | High Constraint Area | Remove | |



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GDA2020 MGA Zone 55
 Scale: 1:3,000

0 45 90
 Metres

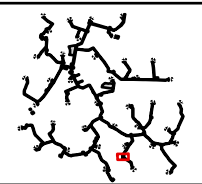
N



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FIGURE A-23:
 Bellaringa Ground-Truthed
 Tree Extents

- Flora Search Tracks
- Proposed ROW
- Proposed Extra Workspaces
- No Go Area
- High Constraint Area
- Potential Landspray Area
- Ground-Truthed Tree Centrepoint
- Retain
- Remove
- Dripline Extent
- Retain
- Remove



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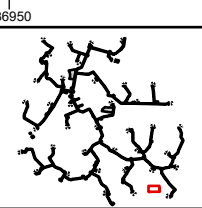
GDA2020 MGA Zone 55
 Scale: 1:1,000

0 15 30
 Metres



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FIGURE A-24:
 Bellaringa Ground-Truthed
 Tree Extents

| | | |
|---------------------------|--------------------------|---------------------------------|
| Roads | No Go Area | Ground-Truthed Tree Centrepoint |
| Proposed Extra Workspaces | High Constraint Area | Retain |
| Track Corridors | Potential Landspray Area | Dripline Extent |
| | | Retain |



| REVISION | AUTHOR | REVIEWER | DATE |
|----------|--------|----------|------------|
| 5 | NC | BO | 11/02/2025 |

GDA2020 MGA Zone 55
 Scale: 1:1,000

0 15 30
 Metres

787000

787100

787200

787300

787400

787500

787600

7088800

7088700

7088600

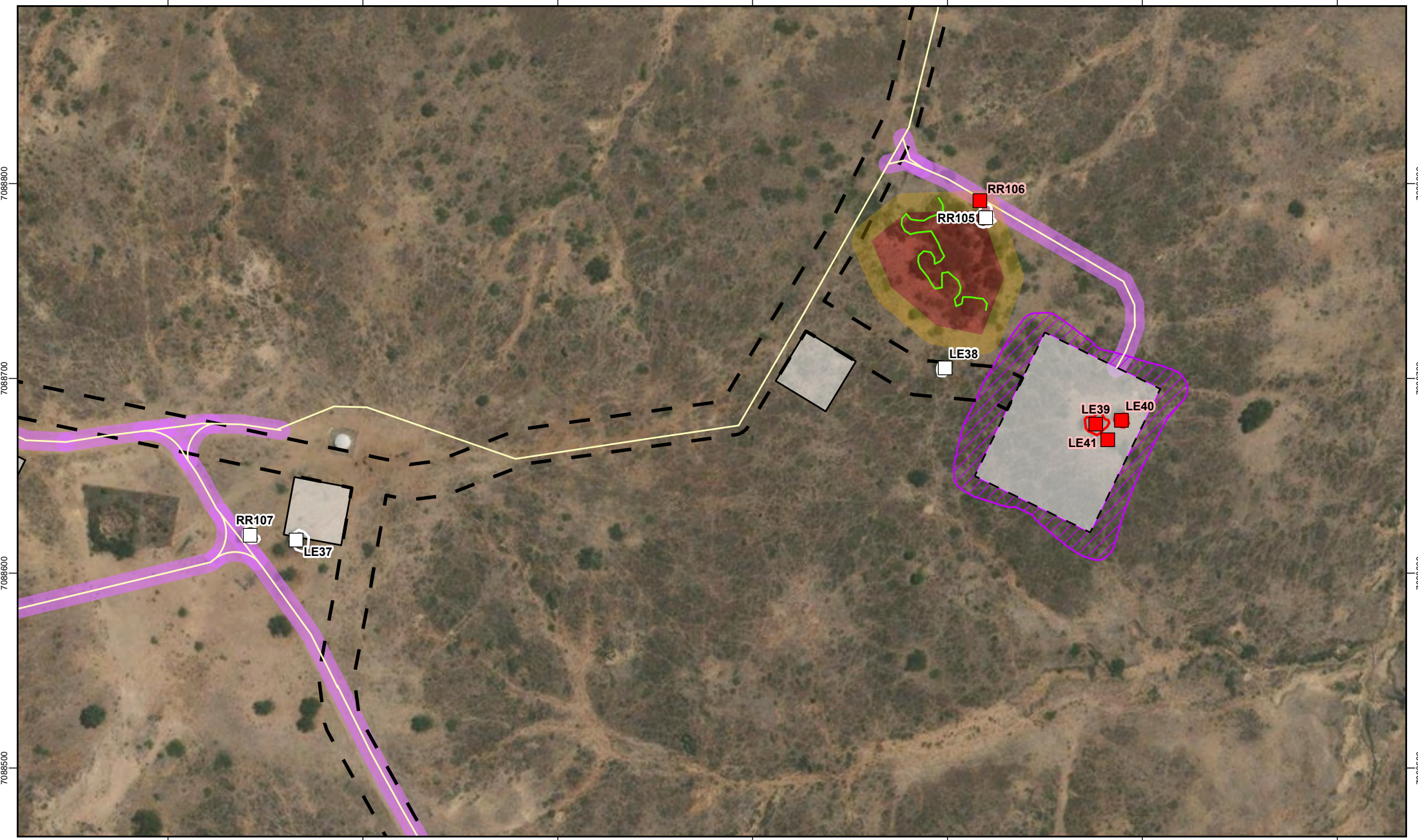
7088500

7088800

7088700

7088600

7088500



787000

787100

787200

787300

787400

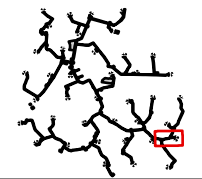
787500

787600



FIGURE A-25:
Bellaringa Ground-Truthed
Tree Extents

- Flora Search Tracks
- Roads
- Proposed ROW
- Proposed Extra Workspaces
- Proposed Wellpads
- Wellpad Earthworks Extent
- Track Corridors
- No Go Area
- High Constraint Area
- Potential Landspray Area
- Ground-Truthed Tree Centrepoint
- Retain
- Remove
- Dripline Extent
- Retain
- Remove



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| 5 | NC | BO | 11/02/2025 |

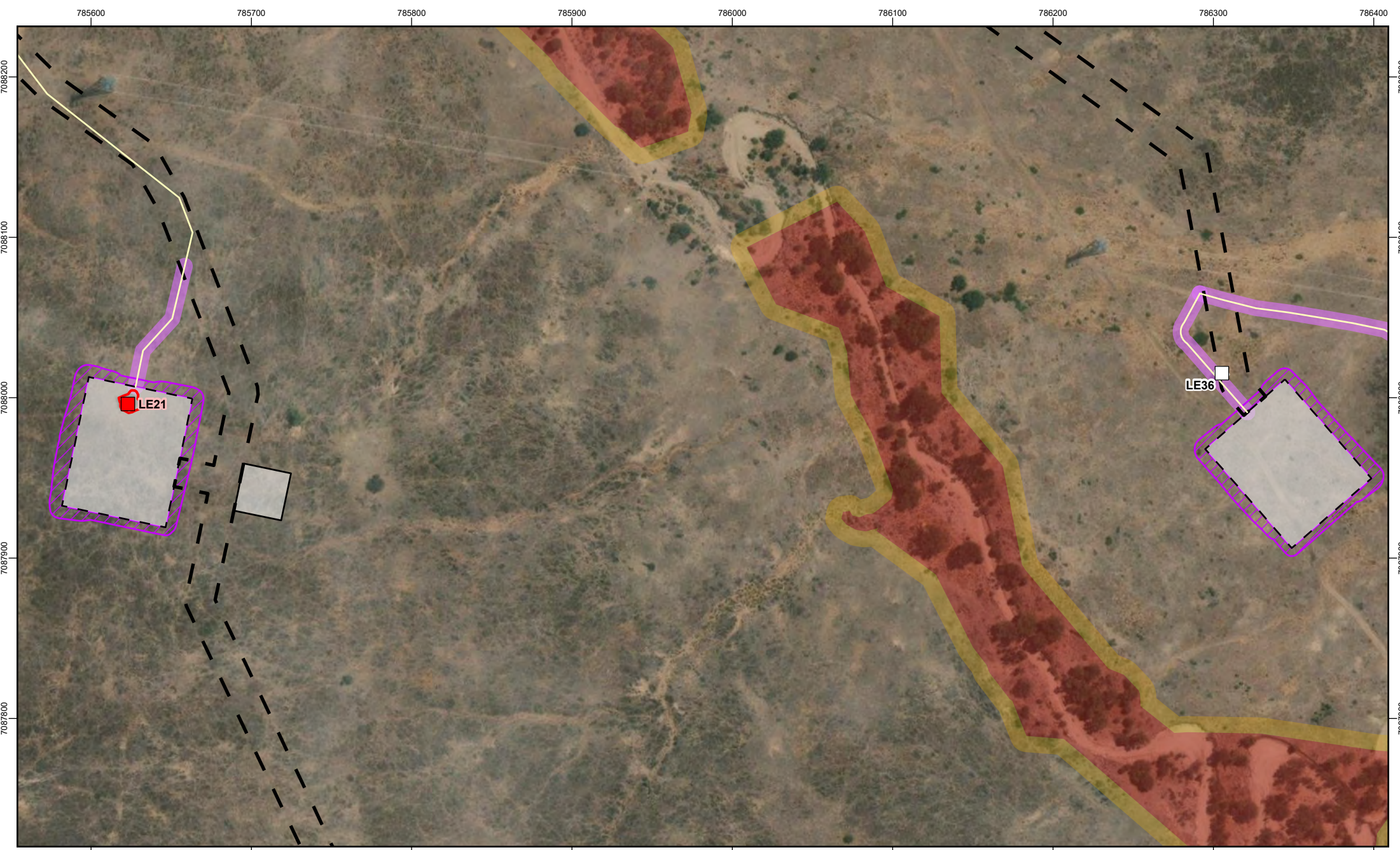
GDA2020 MGA Zone 55
Scale: 1:2,500

0

37.5

75

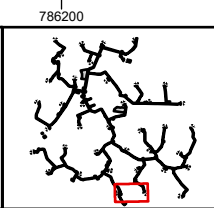
Metres



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FIGURE A-26:
 Bellaringa Ground-Truthed
 Tree Extents

| | | | |
|---------------------------|---------------------------|---------------------------------|-----------------|
| Roads | Wellpad Earthworks Extent | Potential Landspray Area | Dripline Extent |
| Proposed ROW | Track Corridors | Ground-Truthed Tree Centrepoint | Retain |
| Proposed Extra Workspaces | No Go Area | Retain | Remove |
| Proposed Wellpads | High Constraint Area | Remove | |



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GDA2020 MGA Zone 55
 Scale: 1:3,000

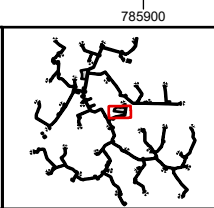
0 45 90
 Metres



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FIGURE A-27:
 Bellaringa Ground-Truthed
 Tree Extents

| | | | |
|---------------------------|--------------------------|------------|---------------------------------|
| Roads | Track Corridors | No Go Area | Ground-Truthed Tree Centrepoint |
| Proposed ROW | High Constraint Area | Retain | Dripline Extent |
| Camp and Laydown Options | Potential Landspray Area | Retain | |
| Proposed Extra Workspaces | | | |



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|----------|--------|----------|------------|
| 5 | NC | BO | 11/02/2025 |

GDA2020 MGA Zone 55
 Scale: 1:2,000

0 30 60
 Metres

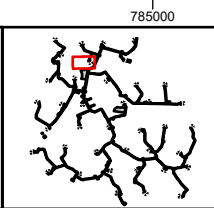
N



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FIGURE A-28:
 Bellaringa Ground-Truthed
 Tree Extents

| | | | |
|---------------------------|---------------------------|---------------------------------|-----------------|
| Roads | Wellpad Earthworks Extent | Potential Landspray Area | Dripline Extent |
| Proposed ROW | Track Corridors | Ground-Truthed Tree Centrepoint | Retain |
| Proposed Extra Workspaces | No Go Area | Retain | Remove |
| Proposed Wellpads | High Constraint Area | Remove | |



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|----------|--------|----------|------------|
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GDA2020 MGA Zone 55
 Scale: 1:2,000

0 30 60
 Metres

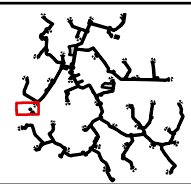
N



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FIGURE A-29:
 Bellaringa Ground-Truthed
 Tree Extents

- Turnout Impact Footprint
- Turnout Survey Area
- Roads
- Proposed ROW
- Proposed Extra Workspaces
- Proposed Wellpads
- Wellpad Earthworks Extent
- Track Corridors
- No Go Area
- High Constraint Area
- Potential Landspray Area



| REVISION | AUTHOR | REVIEWER | DATE |
|----------|--------|----------|------------|
| 5 | NC | BO | 11/02/2025 |

GDA2020 MGA Zone 55
 Scale: 1:2,000

0 30 60
 Metres

N

Appendix B – Fauna records




Results of the fauna spotted during the time surveying the property and the GPS location where spotted.

Fauna species list

| Common Name | Scientific Name | Latitude, Longitude |
|---------------------------|-----------------------------------|------------------------|
| striated pardalote | <i>Pardalotus striatus</i> | -26.264730, 149.845208 |
| pieb currawong | <i>Strepera graculina</i> | -26.292307, 149.858135 |
| brown falcon | <i>Falco berigora</i> | -26.294173, 149.850475 |
| noisy miner | <i>Manorina melanocephala</i> | -26.261824, 149.845269 |
| wedge-tailed eagle | <i>Aquila audax</i> | -26.261824, 149.845269 |
| mistletoebird | <i>Dicaeum hirundinaceum</i> | -26.280372, 149.858808 |
| rufous whistler | <i>Pachycephala rufiventris</i> | -26.294173, 149.850475 |
| sulphur-crested cockatoo | <i>Cacatua galerita</i> | -26.294173, 149.850475 |
| black-faced cuckoo-shrike | <i>Coracina novaehollandiae</i> | -26.292307, 149.858135 |
| grey fantail | <i>Rhipidura albiscapa</i> | -26.280372, 149.858808 |
| willie wagtail | <i>Rhipidura leucophrys</i> | -26.294173, 149.850475 |
| little shrike-thrush | <i>Colluricincla megarrhyncha</i> | -26.294173, 149.850475 |
| brown gerygone | <i>Gerygone mouki</i> | -26.275695, 149.868475 |
| crested pigeon | <i>Ocyphaps lophotes</i> | -26.293241, 149.875135 |
| eastern grey kangaroo | <i>Macropus giganteus</i> | -26.280372, 149.858808 |

Appendix C – Fauna habitat recorded

Habitat features located on site

| Habitat type | Latitude, Longitude | Photo |
|---------------------------|---------------------------|--|
| Stick nest | -26.28701785, 149.8471746 |  |
| Stick nest | -26.2711082, 149.8445483 | No photo |
| Pardalote burrows in bank | -26.26478632, 149.8451892 |  |
| Stick nest | -26.27081501, 149.8429162 |  |