

27 August 2025

Lisa Simonsen
Environment and Development Planner
Tilt Renewables Australia Pty Ltd

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Dear Lisa

RE: Liverpool Range Wind Farm Modification 2 Application – Biodiversity Constraints

Umwelt was engaged by Tilt Renewables Australia Pty Ltd as trustee for Liverpool Range Wind Farm Project Trust (the Proponent) to provide technical biodiversity services to support an application to modify State Significant Development Consent SSD 6696-Mod-1 that was granted for the Liverpool Range Wind Farm (LRWF) project in 2024 (Mod-2 Application).

This report assesses the proposed changes and sets out the key biodiversity constraints, findings and conclusions relevant for the Mod-2 Application.

Please reach out if you have any comments or queries regarding the report.

Yours sincerely



Rhys Osborne
Senior Ecologist

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1.0 Background

The Proponent has identified the need to reinstate three areas of land, totalling 15.64 hectares (ha), into the Development Corridor to facilitate micro-siting of key ancillary infrastructure. These areas were part of the original development consent granted on 27 March 2018 but were removed during the modification application (Mod-1), which was subsequently approved on 23 October 2024. The Mod-2 Development Corridor includes the Mod-1 Development Corridor and the following additional areas:

- Additional Area 1 (12.7 ha) located north west of Turee Vale Road.
- Additional Area 2 (0.5 ha) located north west of the intersection of Rotherwood Road and Norfolk Road.
- Additional Area 3 (2.4 ha) located south west of Cluffs Road.

The location of the Mod-2 Development Corridor additional areas is provided in **Figure A.1**.

The Mod-2 Application proposes to reinstate these areas to allow for the micro-siting of a section of the wind farm access track and two permanent monitoring masts. This adjustment aims to optimize the development layout, address landowner concerns, and enhance construction flexibility without increasing the native vegetation/habitat clearing limits specified in the Mod-1 Development Consent. For clarity, the Mod-2 Application proposes changes to the Development Corridor of Mod-1, it does not propose to modify the impact thresholds to native vegetation, Threatened Ecological Communities (TECs) and threatened species habitat.

The reinstatement of 12.7 ha of land for the wind farm access track will enable uninterrupted access within the development for heavy and oversize/over-mass (OSOM) vehicles, reducing traffic on Turee Vale Road and minimising dust impacts at nearby residences. Additionally, reinstating approximately 3.0 ha of land for the permanent monitoring masts will provide sufficient flexibility to micro-site these masts, particularly the guywires, in the event nearby turbines are micro-sited during the detailed design phase (as permissible in Mod-1 Development Consent Conditions 8 and 10 of Schedule 2).

This report provides a summary of the biodiversity constraints within the 15.64 ha of additional land proposed to be added to the Development Corridor. **To be clear, the Development Corridor is a micro-siting buffer and not the development footprint, as such there are no proposed increases to the indicative development footprint for Mod-2.**

The contents of this report are based on the desktop assessment and site inspection described in sections further below.

1.1 Schedule of Land for Public Road Upgrades

The Proponent is also seeking to include thirteen additional land parcels adjacent to the road reserve in the Development Consent as part of Mod-2 application to support public road upgrades (PRUs) works in those areas. These areas were assessed as part of the Mod-1 application, with no new impacts proposed as part of the Mod-2 application.

The proposed updates ensure all land potentially needed for PRU works is listed in the Development Consent and resolves mapping discrepancies between the publicly available NSW Digital Cadastral Database (DCDB) and the more accurate Survey Adjusted Cadastral Model (SACM) that was procured by the Proponent after Mod-1 was approved in October 2024.

As the SACM was not available during the Mod-1 application these additional lots were not identified as being potentially impacted by the PRU works. These lots are now identified as potentially affected by PRU works and are being added to the Development Consent accordingly.

There are no additional biodiversity impacts to these areas beyond those identified in the approved Mod-1 project and as such this report does not consider or assess them further.

2.0 Methods

A desktop review of existing spatial data and documentation was undertaken to inform the preparation of this report. The desktop review included the following resources:

- Spatial data resources (including vegetation mappings, habitat mapping, field survey data etc):
 - LRWF Approved Project.
 - LRWF Mod-1 Approved Project (Umwelt).
 - State Vegetation Type Mapping (NSW DCCEEW 2020).
- Documents:
 - Mod-1 Development Consent (SSD 6696 Mod-1, 23 October 2024)).
 - Liverpool Range Wind Farm: Response to Submissions Biodiversity Development Assessment Report (RTS BDAR) (Umwelt 2023).
 - Liverpool Range Wind Farm, NSW: Public Environment Report (EPBC 2022/09416) (PER) (Umwelt 2024).
 - Liverpool Range Wind Farm: Addendum to the Biodiversity Development Assessment Report (Addendum) (Umwelt 2024).
 - Liverpool Range Wind Farm - Transmission Line Study Area: Biodiversity Assessment (NGH 2013).
 - Liverpool Range Wind Farm and Transmission Line Project: Biodiversity Addendum Report (NGH 2017).

In addition to the desktop review, a site inspection was conducted on 6–7 May 2025 by two Umwelt ecologists. Specifically, the inspection focused on confirming Plant Community Types (PCTs) and vegetation zones (VZs), including their interaction with Threatened Ecological Communities (TECs) and threatened species within the additional Development Corridor areas.

The site inspection included a walking meander covering more than four (4) km. During this inspection, a total of 21 Rapid Vegetation Assessments, and six vegetation note points were completed.

The purpose of the site inspection was not only to confirm the mapping of the Mod-2 Development Corridor additional areas but also to assess its consistency with the previous assessments and specifically the mapping of adjacent areas in the approved Mod-1 Development Corridor. This included the identification and recording of habitat features, such as hollow bearing trees, stags and rock piles.

The survey effort is detailed in **Figure A.2**.

3.0 Results

3.1 Vegetation Mapping

Surveys of the Mod-2 Development Corridor additional areas identified two PCTs across three VZs. These additional areas span across two Interim Biogeographical Regionalisation for Australia (IBRA) subregions of the Brigalow Belt South Region, being the Liverpool Range, and the Pilliga subregions. They do not interact with the Sydney Basin Bioregion – Kerrabee subregion which the approved Mod-1 Development Corridor does.

Vegetation mapping of these additional areas is considered consistent with vegetation mapping in the adjoining Mod-1 Development Corridor and that is described in Section 3.3 of the RTS BDAR (Umwelt 2023) for the Mod-1 Project and include:

- PCT 483 – Grey Box x White Box grassy open woodland on basalt hills in the Merriwa region, upper Hunter Valley:
 - Zone-7 – Low.
 - Zone-8 – Low Derived Native Grassland (DNG).
- PCT 488 – Silvertop Stringybark – Yellow Box +/- Nortons Box grassy woodland on basalt hills mainly on northern aspects of the Liverpool Range, Brigalow Belt South Bioregion:
 - Zone-12 – Exotic.

Vegetation mapped within the Mod-2 Development Corridor additional areas included consideration of potential TECs recorded within the locality. Two TECs were identified as potentially occurring within the Mod-2 Development Corridor additional areas, which is consistent with vegetation in the adjoining areas of the approved Mod-1 Development Corridor. The relevant TECs being:

- *White Box – Yellow Box – Blakely’s Red Gum Grassy Woodland and Derived Native Grassland in the NSW North Coast, New England Tableland, Nandewar, Brigalow Belt South, Sydney Basin, South Eastern Highlands, NSW South Western Slopes, South East Corner and Riverina Bioregions* Critically Endangered Ecological Community (CEEC) (BC Act), referred to as NSW BGW CEEC.
- *White Box-Yellow Box-Blakely’s Red Gum Grassy Woodland and Derived Native Grassland CEEC* (EPBC Act), referred to as Cth BGW CEEC.

One VZ, being Zone 7 PCT 483 – Low is considered to align with the NSW BGW CEEC final determination, due to the dominance of characteristic canopy species and presence of native grass species. The extent of the NSW BGW CEEC within Mod-2 Development Corridor additional areas is considered consistent with the vegetation mapped adjacent for the approved Mod-1 Development Corridor, which too conforms with the NSW BGW CEEC.

None of the VZs recorded within the Mod-2 Development Corridor additional areas are considered to be consistent with the Cth BGW CEEC final determination. This is consistent with the vegetation mapped adjacent for the approved Mod-1 Development Corridor. While the canopy of Zone 7 – PCT 483 – Low is dominated by characteristic species, the ground layer comprises a mix of native and exotic species is dominated by native grass species and exotic perennials supporting a low presence of native perennial species. Such vegetation is not considered to conform with the key condition thresholds for the Cth BGW CEEC.

Table 3.1 summarises the extent of vegetation mapped within the Mod-2 Development Corridor additional areas. **Table 3.2** summarises the extent of vegetation mapped Mod-2 Development Corridor compared to the Mod-1 Development Corridor as detailed in **Figure A.1**.

Table 3.1 Summary of Vegetation Mapping for the Three Mod – 2 Development Corridor Additional Areas (Additional Area 1, Additional Area 2 and Additional Area 3)

VZ – PCT Name – Condition	BC Act	EPBC Act	Area (ha)			
			Additional Area 1	Additional Area 2	Additional Area 3	Total Additional Area
VZ-7 – PCT-483 – Low	NSW BGW CEEC	-	7.8	0.5	0	8.3
VZ-8 – PCT-483 – Low DNG	-	-	4.9	0	0	4.9
VZ-12 – PCT-488 – Exotic	-	-	0	0	2.4	2.4
Total Area (ha)			12.7	0.5	2.4	15.6

Table 3.2 Summary of Vegetation Mapping for Mod – 1 Approved Development Corridor and Mod – 2 Additional Development Corridor

VZ – PCT Name – Condition	BC Act	EPBC Act	Total Area in the Mod-1 Development Corridor (ha)	Total Area in the Mod-2 Development Corridor (ha)	Difference between Mod-1 and Mod-2 (ha)
Liverpool Range Subregion / Brigalow Belt South Region					
VZ-1 – PCT-84 – Moderate Good	-	-	57.2	57.2	0
VZ-2 – PCT-281 – Moderate Good	NSW BGW CEEC	Cth BGW CEEC	4.4	4.4	0
VZ-6 – PCT-483 – Moderate Good	NSW BGW CEEC	Cth BGW CEEC	101.9	101.9	0
VZ-7 – PCT-483 – Low	NSW BGW CEEC	-	1050.9	1050.9	0
VZ-8 – PCT-483 – Low DNG	-	-	1185.6	1185.6	0

VZ – PCT Name – Condition	BC Act	EPBC Act	Total Area in the Mod-1 Development Corridor (ha)	Total Area in the Mod-2 Development Corridor (ha)	Difference between Mod-1 and Mod-2 (ha)
VZ-9 – PCT-488 – Moderate Good	NSW BGW CEEC	-	320.7	320.7	0
VZ-10 – PCT-488 – Moderate Good-Shrubby	-	-	3	3	0
VZ-11 – PCT-488 – Low	NSW BGW CEEC	-	1074	1074	0
VZ-12 – PCT- 488 – Exotic	-	-	1629.7	1632.1	2.4
VZ-13 – PCT-490 – Moderate Good	-	-	87.4	87.4	0
VZ-14 – PCT-495 – Moderate Good	-	-	174.1	174.1	0
VZ-17 – PCT-483 – DNG	NSW BGW CEEC	-	734.2	734.2	0
Disturbed	-	-	60.8	60.8	0
Land Category 1 – Exempt Land	-	-	172.5	172.5	0
Water Body	-	-	7.9	7.9	0
Pilliga Subregion / Brigalow Belt South Region					
VZ-1 – PCT-84 – Moderate Good	-	-	23	23	0
VZ-2 – PCT-281 – Moderate Good	NSW BGW CEEC	CTH BGW CEEC	8.2	8.2	0

VZ – PCT Name – Condition	BC Act	EPBC Act	Total Area in the Mod-1 Development Corridor (ha)	Total Area in the Mod-2 Development Corridor (ha)	Difference between Mod-1 and Mod-2 (ha)
VZ-4 – PCT-479 – Moderate Good	-	-	43.2	43.2	0
VZ-5 – PCT-481 – Moderate Good	-	-	43	43	0
VZ-6 – PCT-483 – Moderate Good	NSW BGW CEEC	CTH BGW CEEC	14	14	0
VZ-7 – PCT-483 – Low	NSW BGW CEEC	-	377.4	385.7	8.3
VZ-8 – PCT-483 – Low DNG		-	527.2	532.1	4.9
VZ-9 – PCT-488 – Moderate Good	NSW BGW CEEC	-	10.1	10.1	0
VZ-11 – PCT-488 – Low	NSW BGW CEEC	-	17.6	17.6	0
VZ-12 – PCT-488 – Exotic	-	-	36.9	36.9	0
VZ-15 – PCT- 1661 – Moderate Good	-	-	126.1	126.1	0
VZ-16 – PCT- 1675 – Moderate Good	-	-	47.5	47.5	0
VZ-17 – PCT-483 – DNG	NSW BGW CEEC	-	239	239	0

VZ – PCT Name – Condition	BC Act	EPBC Act	Total Area in the Mod-1 Development Corridor (ha)	Total Area in the Mod-2 Development Corridor (ha)	Difference between Mod-1 and Mod-2 (ha)
VZ-18 – PCT- 1661 – DNG	-	-	32.8	32.8	0
Disturbed	-	-	72.7	72.7	0
Land Category 1 – Exempt Land	-	-	316.3	316.3	0
Water	-	-	0	0	0
Water Body	-	-	0.5	0.5	0
Kerrabee Subregion / Sydney Basin Region					
VZ-2 – PCT-281 – Moderate Good	NSW BGW CEEC	CTH BGW CEEC	33.88	33.88	0
VZ-4 – PCT-479 – Moderate Good	-	-	12.05	12.05	0
VZ-5 – PCT-481 – Moderate Good	-	-	5.77	5.77	0
VZ-6 – PCT-483 – Moderate Good	NSW BGW CEEC	CTH BGW CEEC	1.05	1.05	0
VZ-7 – PCT-483 – Low	NSW BGW CEEC	-	42.89	42.89	0
VZ-8 – PCT-483 – Low DNG	-	-	0.74	0.74	0
VZ-11 – PCT-488 – Low	NSW BGW CEEC	-	11.08	11.08	0

VZ – PCT Name – Condition	BC Act	EPBC Act	Total Area in the Mod-1 Development Corridor (ha)	Total Area in the Mod-2 Development Corridor (ha)	Difference between Mod-1 and Mod-2 (ha)
VZ-15 – PCT- 1661 – Moderate Good	-	-	69.44	69.44	0
VZ-16 – PCT- 1675 – Moderate Good	-	-	67.64	67.64	0
VZ-17 – PCT-483 – DNG	NSW BGW CEEC	-	6.48	6.48	0
VZ-18 – PCT- 1661 – DNG	-	-	0.12	0.12	0
Disturbed	-	-	36	36	0
Land Category 1 – Exempt Land	-	-	35.84	35.84	0
Water Body	-	-	11.38	11.38	0
Grand Total	-	-	8934.3	8949.9	15.6

Note: Total areas are calculated using raw area values and may include minor discrepancies due to rounding to one decimal place.

3.2 Threatened Species Habitat Mapping

The impacts of approved Mod-1 Development Consent on species-credit species were reviewed in consideration of the Mod-2 Development Corridor additional areas. The following species credit species were identified based on the species habitat polygons outlined in Section 3.4.2 of the RTS BDAR (Umwelt 2023):

- ausfeld's wattle (*Acacia ausfeldii*)
- silky swainson-pea (*Swainsona sericea*)
- glossy black-cockatoo (*Calyptorhynchus lathamii*)
- large-eared pied bat (*Chalinolobus dwyeri*)
- square-tailed Kite (*Lophoictinia isura*)
- squirrel glider (*Petaurus norfolcensis*)
- southern greater glider (*Petauroides volans*)
- eastern cave bat (*Vespadelus troughtoni*).

The desktop review and site inspection did not identify any additional habitat for the above species in the Mod-2 Development Corridor additional areas. Therefore, no amendments have been made to the species polygons for these species-credit species.

In addition to these, the desktop review considered mapping of potential habitat for threatened species listed under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) as assessed in the LRWF PER (Umwelt 2024). Outcomes of the site inspection identified potential habitat within the Mod-2 Development Corridor additional areas for the following threatened species listed under the EPBC Act:

- Regent honeyeater (*Anthochaera phrygia*) – mapped within Additional Area 1 and Additional Area 2.
- Koala (*Phascolarctos cinereus* combined populations of Qld, NSW and ACT) – mapped within Additional Area 1, and Additional Area 2.

While both the regent honeyeater and koala are species credit species, the approved Mod-1 Project did not impact on their species-credit habitat and as such they do not have species-credit liabilities for the approved Mod-1 Project.

The Mod-2 Development Corridor additional areas were found to support fauna habitat that was directly consistent with those identified in the adjoining Mod-1 Development Corridor. Habitat features recorded within the Mod-2 Development Corridor additional areas included:

- Stags (non-hollow bearing) containing small fissures and/or loose bark.
- Hollow bearing trees.
- Areas of loose surface rock suitable for reptiles.

Targeted surveys for threatened species may be required in these areas if detailed design will disturb such habitat features. This would be undertaken as part of the Biodiversity Management Plan (BMP) mitigation measures.

4.0 Conclusion

The purpose of this report is to document the biodiversity values present across three small additional areas of Development Corridor, totalling 15.64 ha, proposed by the Mod-2 Application. The reinstatement of the three additional areas of land into the approved Mod-1 Development Corridor aims to facilitate micro-siting of key ancillary infrastructure without increasing the native vegetation or habitat clearing limits specified in the Mod-1 Development Consent. It is important to reiterate that there are no proposed changes to the development footprint, area of impact, or credit liability for Mod-2 compared to the approved Mod-1 Project. As such a biodiversity development assessment report (BDAR) is not required to be submitted with the application for modification as this is an administrative change and the modification will not increase the impact on biodiversity values (BC Act s7.17 (c)(i)).

The vegetation mapping and habitat mapping within the Mod-2 Development Corridor are considered consistent with the mapping completed for the Mod-1 Development Corridor, including the adjoining vegetation and habitats, as detailed in the RTS BDAR (Umwelt 2023). The surveys identified two PCTs across three vegetation zones, which align with the previous assessments and mapping.

No targeted seasonal threatened species surveys were completed for the preparation of this report, given the small areas, adjoining nature of the additional areas and consistency of the vegetation or habitat mapping. The desktop review and site inspection verified that the existing vegetation mapping and habitat mapping for species credit species are still accurate for these additional areas. No further impacts to native vegetation or threatened species habitat have been proposed for the Mod-2 Application.

The Post-Approval Biodiversity Management Plan will guide the construction works based on industry best practices to effectively minimise and mitigate impacts to potential threatened species and their habitats during the construction phase. If impacts to these areas cannot be avoided during construction, habitat features that cannot be avoided should be cleared in accordance with the requirements set out in the Biodiversity Management Plan approved for Mod-1. This approach ensures that any unavoidable impacts are managed responsibly and in compliance with the established guidelines.

Appendix A

Figures



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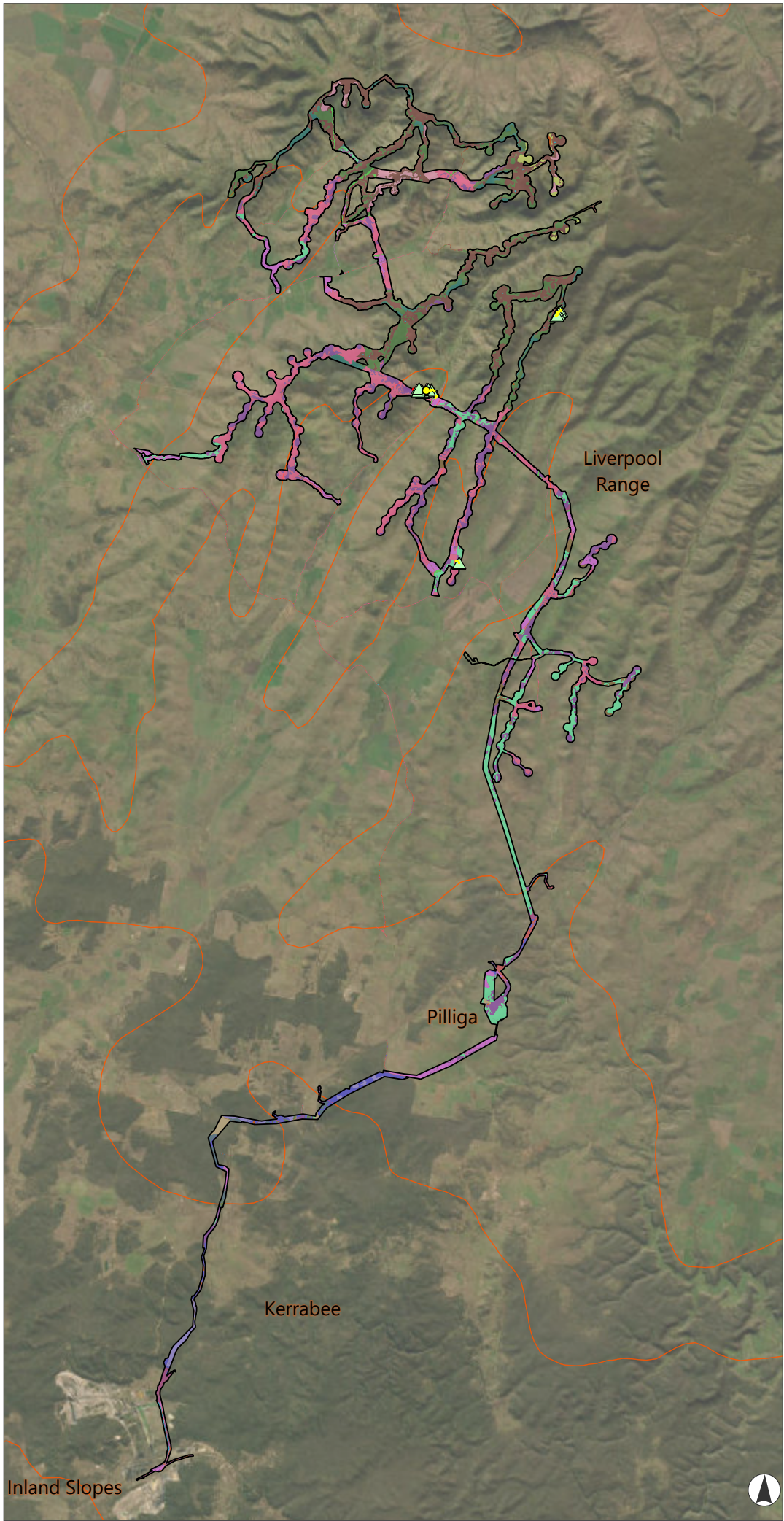
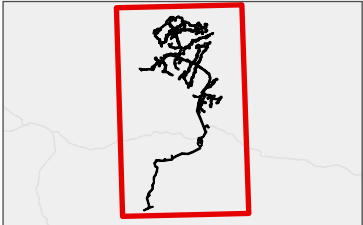


FIGURE A.1
Field Survey and
Vegetation Mapping:
Mod-2 Additional Areas

- Legend**
- Survey Tracks
 - NSW IBRA Sub-Regions
 - LRWF Approved Development Corridor (2024)
 - LRWF Mod-2 Additional Areas
- Field Survey**
- Rapid Flora
 - Waypoint
 - Veg Notes
- Vegetation Mapping**
- Disturbed
 - Land Category 1 - Exempt Land
 - Water
 - Zone-1 - PCT-84 - ModerateGood
 - Zone-10 - PCT-488 - ModerateGood-Shrubby
 - Zone-11 - PCT-488 - Low
 - Zone-12 - PCT-488 - Exotic
 - Zone-13 - PCT-490 - ModerateGood
 - Zone-14 - PCT-495 - ModerateGood
 - Zone-15 - PCT-1661 - ModerateGood
 - Zone-16 - PCT-1675 - ModerateGood
 - Zone-17 - PCT-483 - DNG
 - Zone-18 - PCT-1661 - DNG
 - Zone-2 - PCT-281 - ModerateGood
 - Zone-4 - PCT-479 - ModerateGood
 - Zone-5 - PCT-481 - ModerateGood
 - Zone-6 - PCT-483 - ModerateGood
 - Zone-7 - PCT-483 - Low
 - Zone-8 - PCT-483 - Low Condition DNG
 - Zone-9 - PCT-488 - ModerateGood



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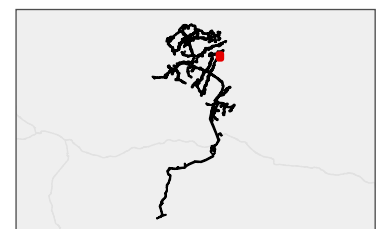
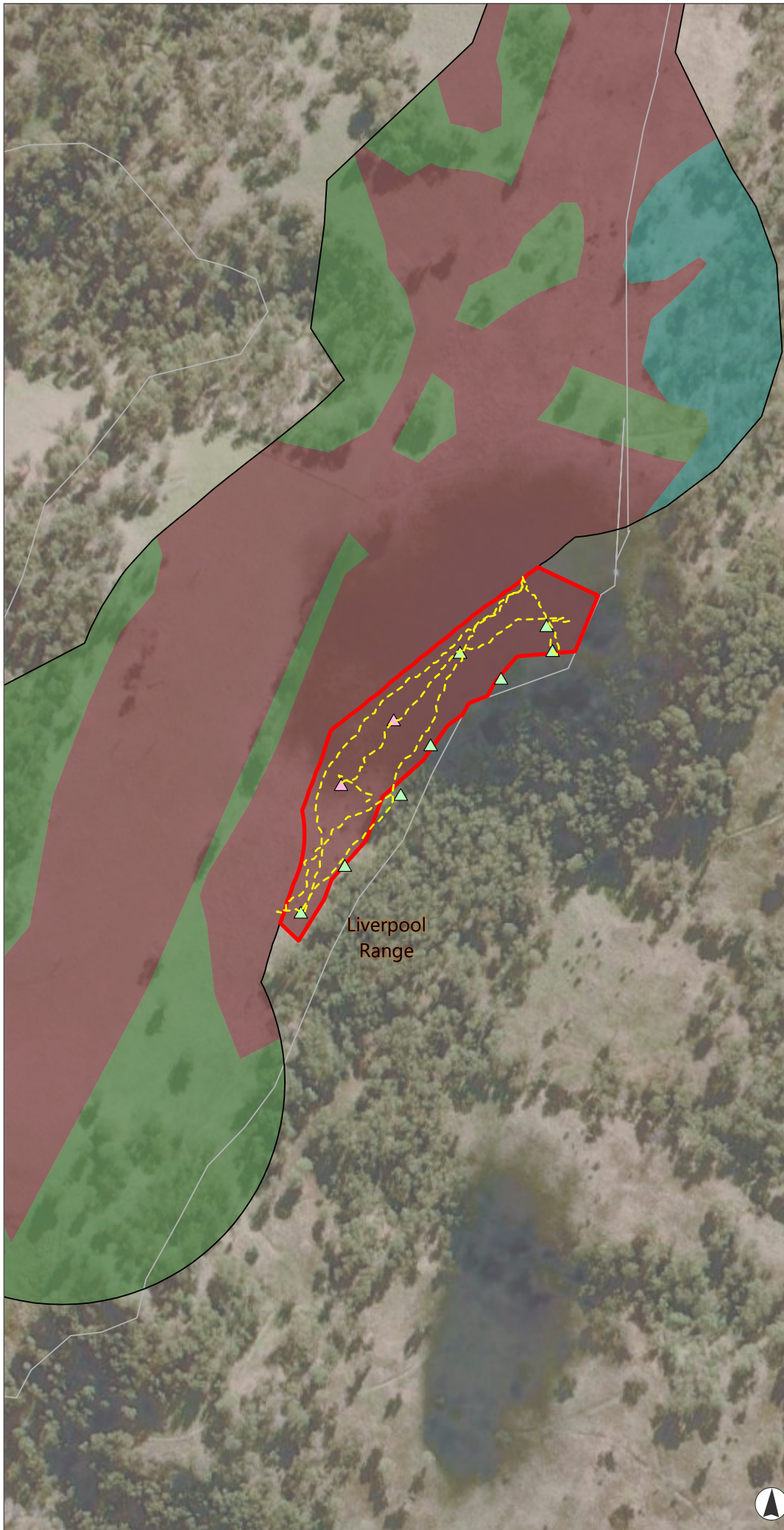


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FIGURE A.1.1
Field Survey and
Vegetation Mapping:
Mod-2 Additional Areas
Legend

- Survey Tracks
 - NSW IBRA Sub-Regions
 - LRWF Original Approved Development Corridor (2018)
 - LRWF Approved Development Corridor (2024)
 - LRWF Mod-2 Additional Areas
- Field Survey**
- Rapid Flora
 - Veg Notes
- Vegetation Mapping**
- Zone-11 - PCT-488 - Low
 - Zone-12 - PCT-488 - Exotic
 - Zone-9 - PCT-488 - ModerateGood



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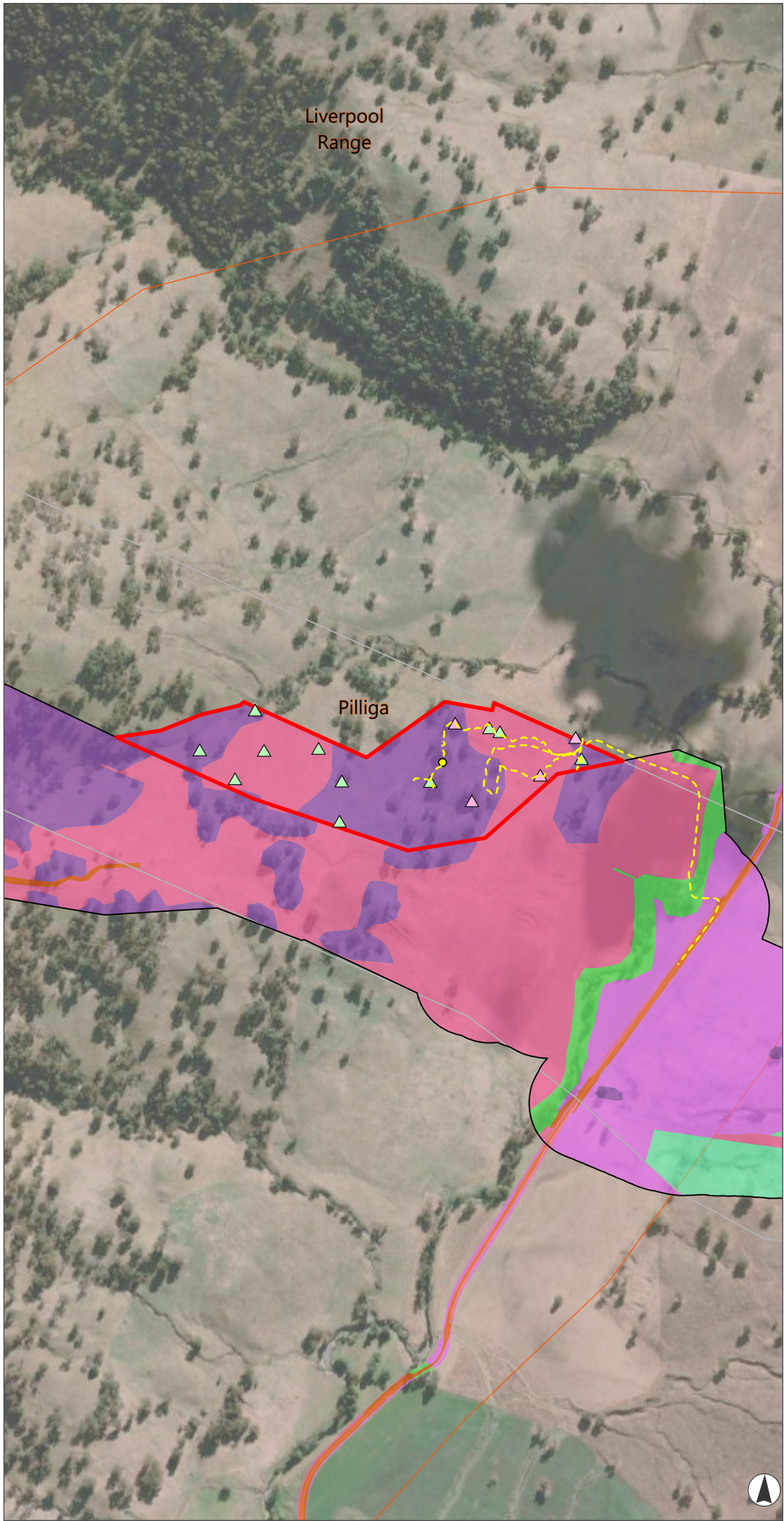
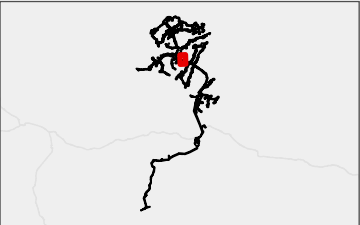


FIGURE A.1.2
Field Survey and
Vegetation Mapping:
Mod-2 Additional Areas
Legend

- Survey Tracks
 - NSW IBRA Sub-Regions
 - LRWF Original Approved Development Corridor (2018)
 - LRWF Approved Development Corridor (2024)
 - LRWF Mod-2 Additional Areas
- Field Survey**
- Rapid Flora
 - Waypoint
 - Veg Notes
- Vegetation Mapping**
- Disturbed
 - Land Category 1 - Exempt Land
 - Zone-1 - PCT-84 - ModerateGood
 - Zone-17 - PCT-483 - DNG
 - Zone-7 - PCT-483 - Low
 - Zone-8 - PCT-483 - Low Condition DNG



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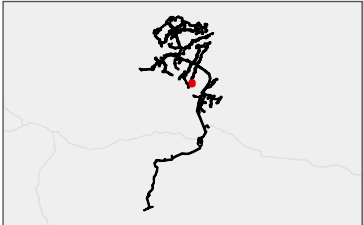
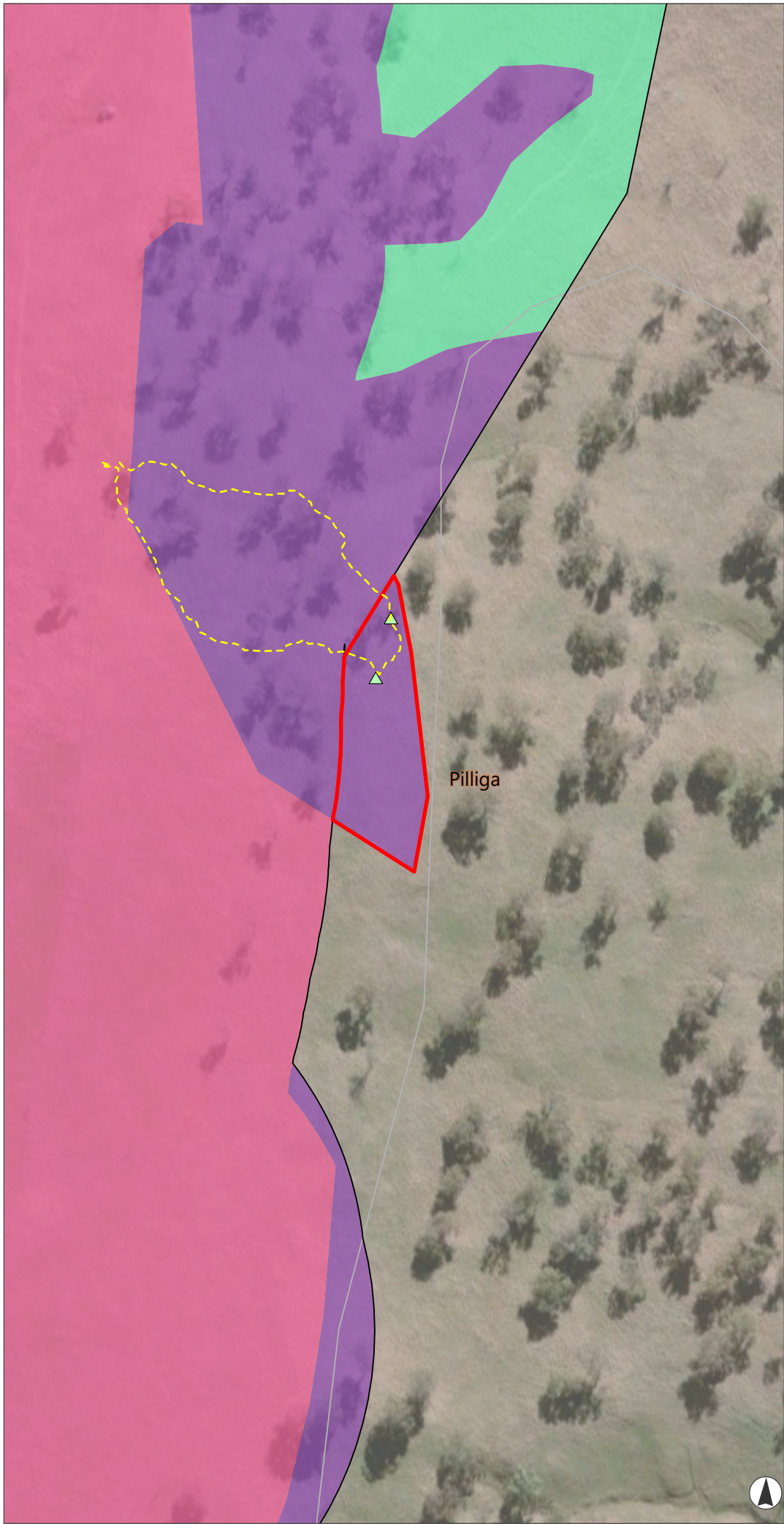
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FIGURE A.1.3
Field Survey and
Vegetation Mapping:
Mod-2 Additional Areas
Legend

- Survey Tracks
 - NSW IBRA Sub-Regions
 - LRWF Original Approved Development Corridor (2018)
 - LRWF Approved Development Corridor (2024)
 - LRWF Mod-2 Additional Areas
- Field Survey**
- Rapid Flora
- Vegetation Mapping**
- Zone-17 - PCT-483 - DNG
 - Zone-7 - PCT-483 - Low
 - Zone-8 - PCT-483 - Low Condition DNG



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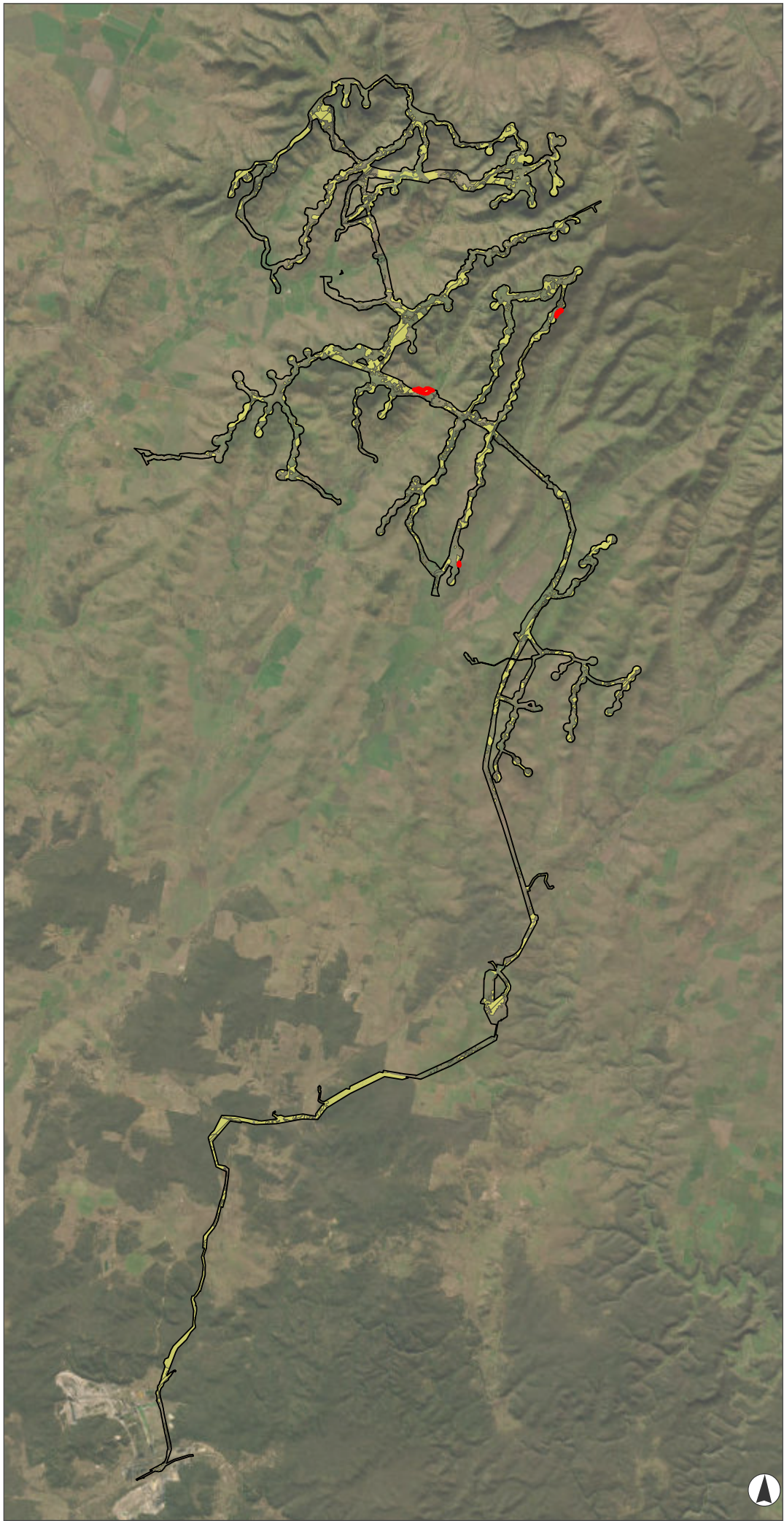
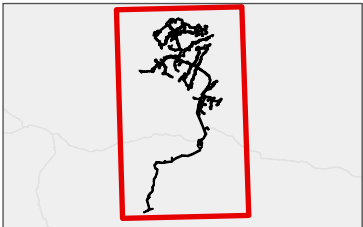


FIGURE A.2
Species Habitat Polygons: Mod-2 Additional Areas
Legend

- LRWF Mod-2 Development Corridor
- LRWF Amended Development Corridor
- LRWF Original Approved Development Corridor
- Koala
- Regent Honeyeater



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GDA2020 MGA Zone 55



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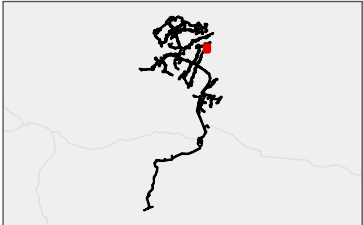


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FIGURE 1.2.1
Species Habitat
Polygons: Mod-2
Additional Areas
Legend

-  LRWF Mod-2 Development Corridor
-  LRWF Amended Development Corridor
-  LRWF Original Approved Development Corridor
-  Koala
-  Regent Honeyeater



0 50 100
Meters

Scale 1:5,000 at A4
GDA2020 MGA Zone 55



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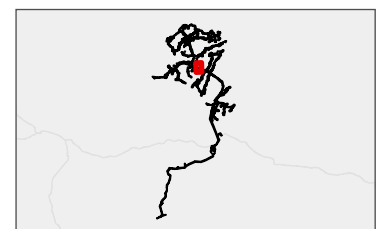
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FIGURE 1.2.2

Species Habitat
Polygons: Mod-2
Additional Areas

Legend

-  LRWF Mod-2 Development Corridor
-  LRWF Amended Development Corridor
-  LRWF Original Approved Development Corridor
-  Koala
-  Regent Honeyeater



0 100 200
Meters

Scale 1:10,000 at A4
GDA2020 MGA Zone 55



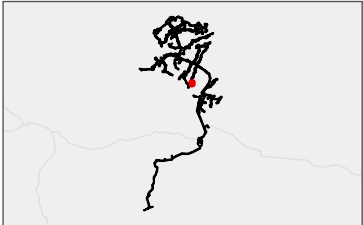
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FIGURE 1.2.3
Species Habitat Polygons: Mod-2
Additional Areas
Legend

-  LRWF Mod-2 Development Corridor
-  LRWF Amended Development Corridor
-  LRWF Original Approved Development Corridor
-  Koala
-  Regent Honeyeater



0 50 100
Meters

Scale 1:3,000 at A4
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