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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 Perth Coastal Grid 1994

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WESTERN AUSTRALIA
BUNBURY OUTER RING ROAD | PLANNING AND DEVELOPMENT

Main Roads Western Australia
Bunbury Outer Ring Road Northern and Central Section
Response to EPA Notice of Decision to Assess:
Additional Information Request

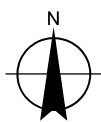
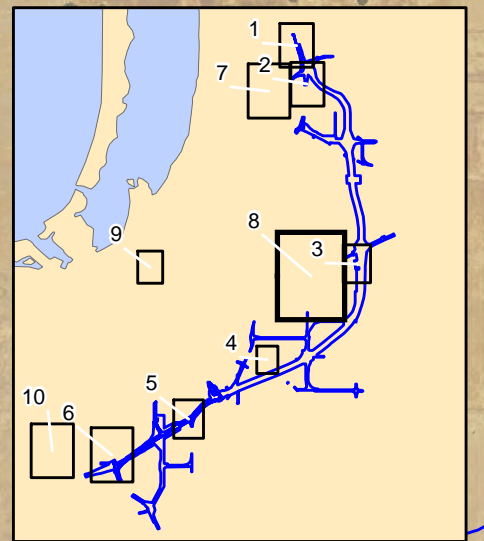
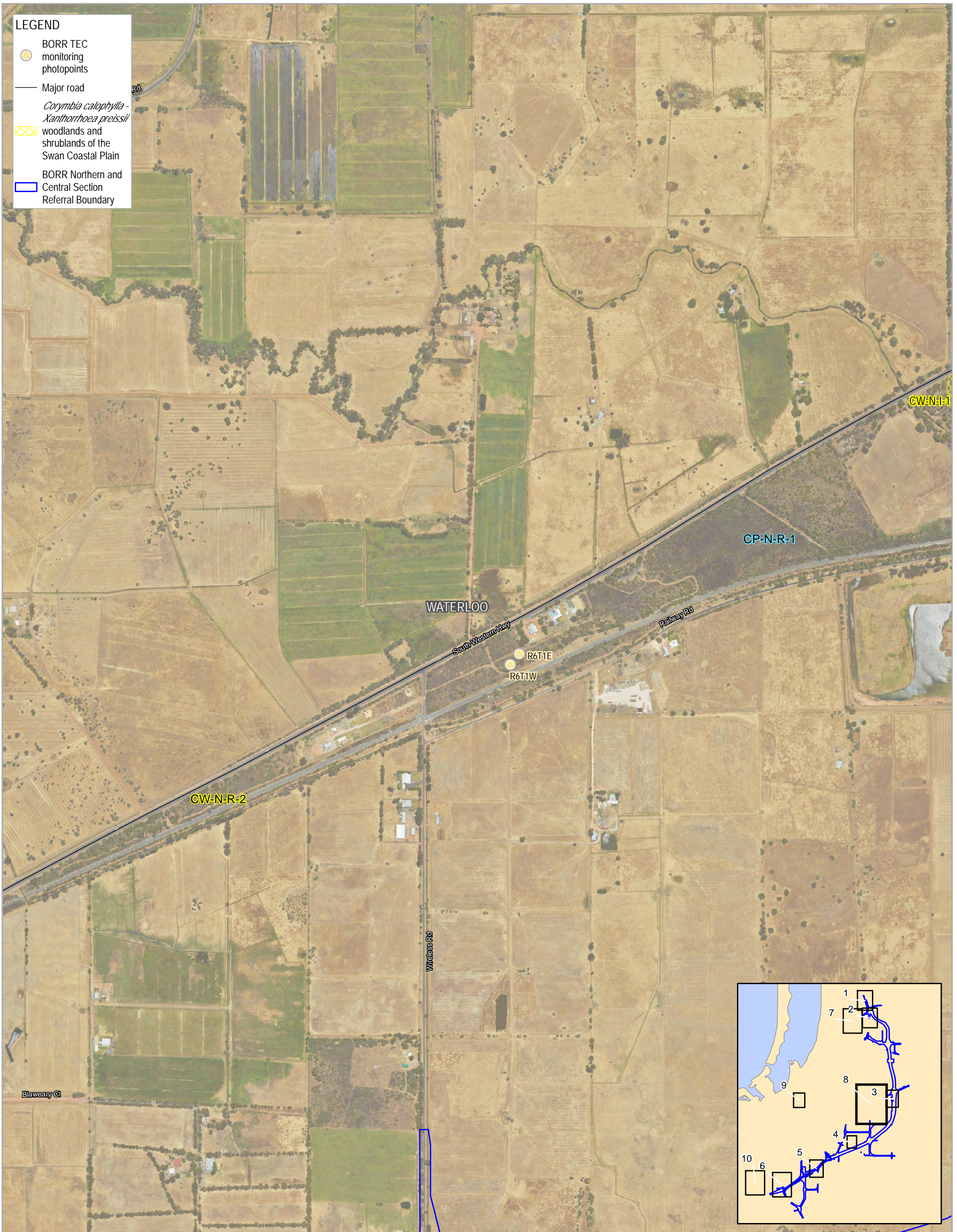
TEC extent adjacent to the
Proposal Area (indirect impacts)

Project No. 61-37041
Revision No. 2
Date 4/05/2020

Page 7 of 10
FIGURE 7

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Print date: 04 May 2020 - 09:57

Data source: BORR team: North referral boundary - 20191016, TEC Monitoring locations - 201912; Landgate: Roads - 201805, Localities - 20180319; Imagery - WA Now accessed 20200504. Created by: slet





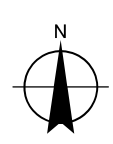
LEGEND

- BORR TEC monitoring photopoints
- Major road



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Map Projection: Transverse Mercator
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 Grid: GDA 1994 Perth Coastal Grid 1994



Main Roads Western Australia
 Bunbury Outer Ring Road Northern and Central Section
 Response to EPA Notice of Decision to Assess:
 Additional Information Request

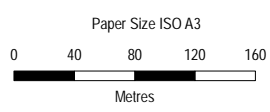
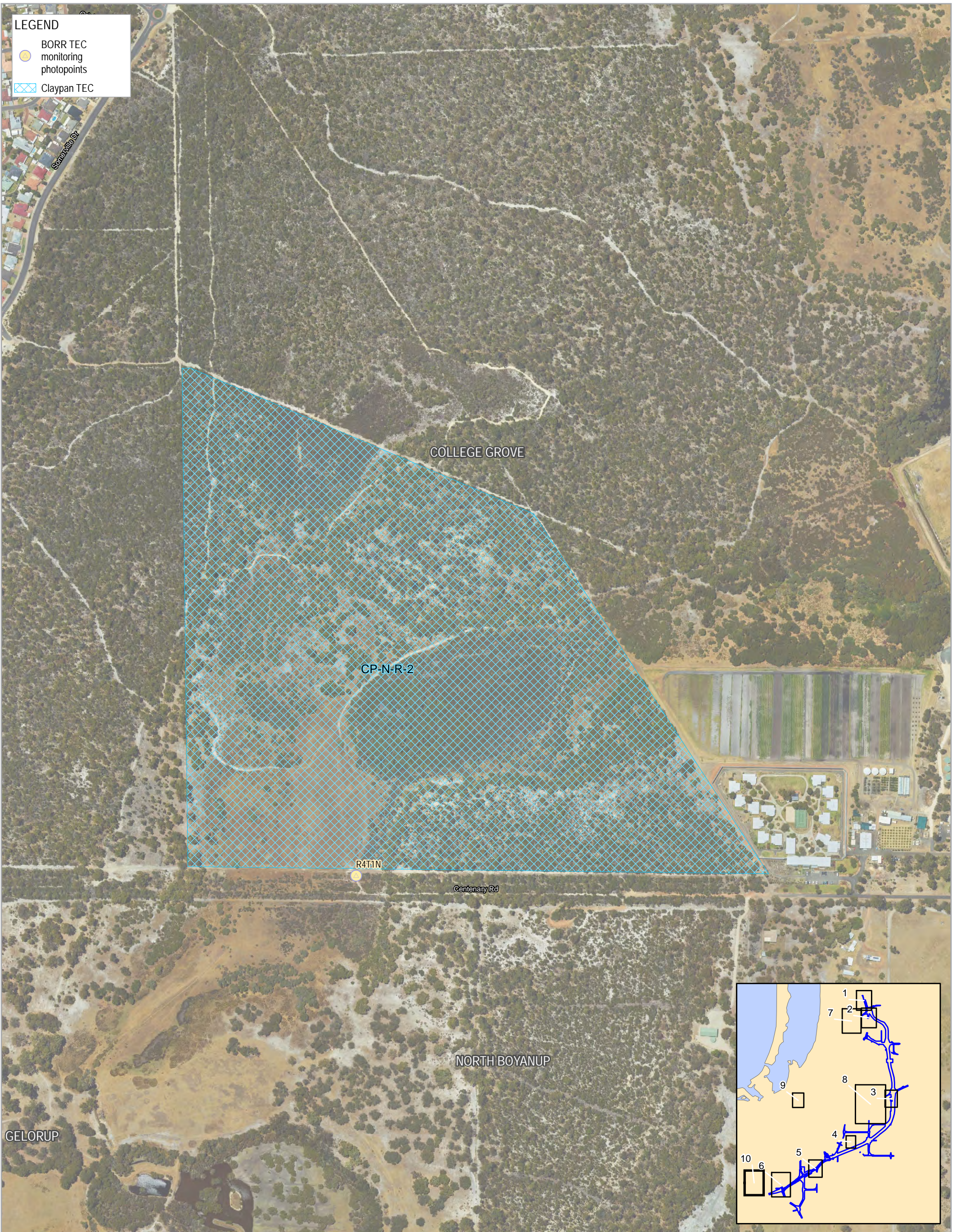
Project No. 61-37041
 Revision No. 2
 Date 4/05/2020

TEC extent adjacent to the
 Proposal Area (indirect impacts)

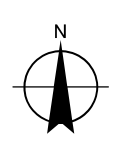
Page 9 of 10
FIGURE 7

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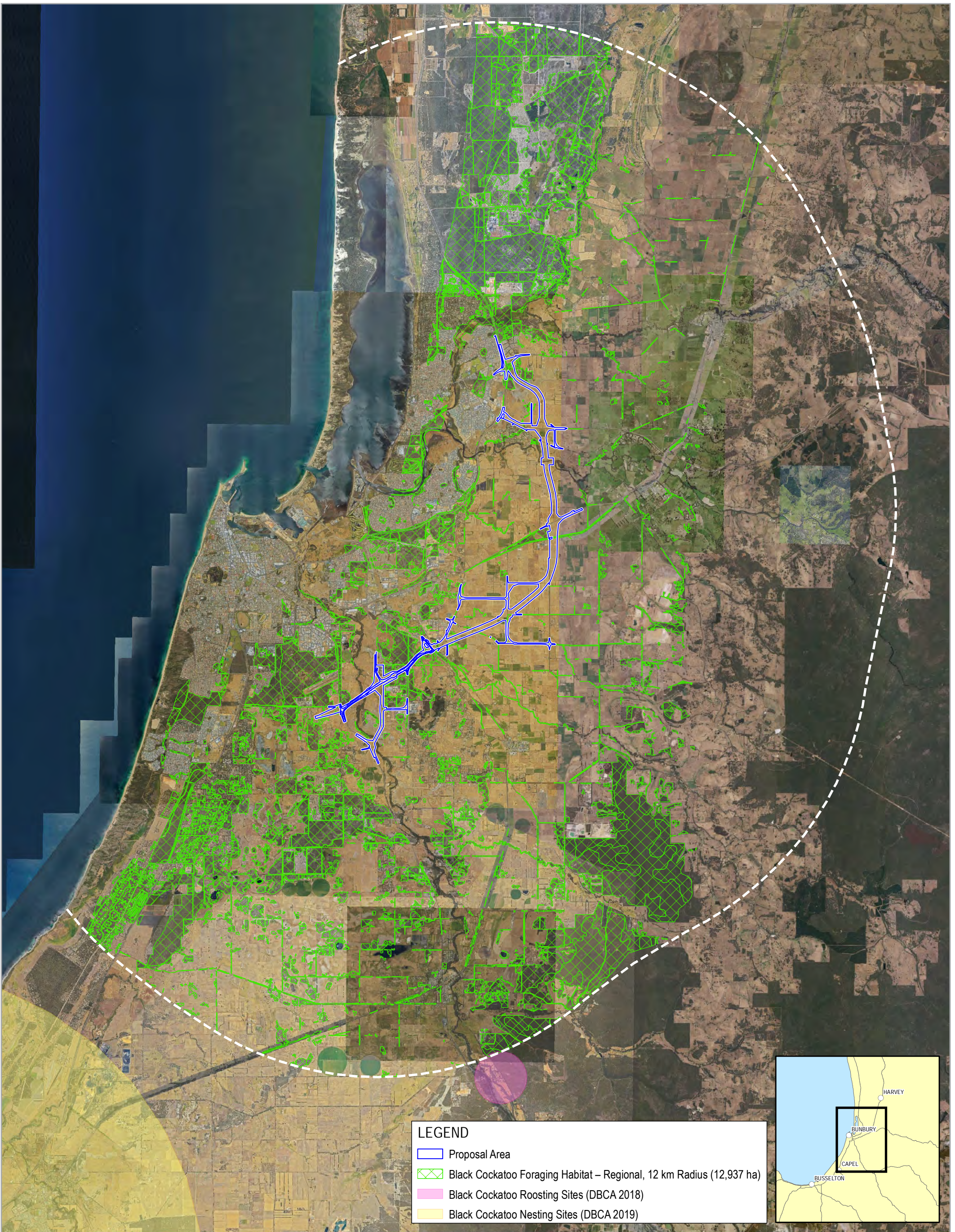


Main Roads Western Australia
Bunbury Outer Ring Road Northern and Central Section
Response to EPA Notice of Decision to Assess:
Additional Information Request

TEC extent adjacent to the
Proposal Area (indirect impacts)

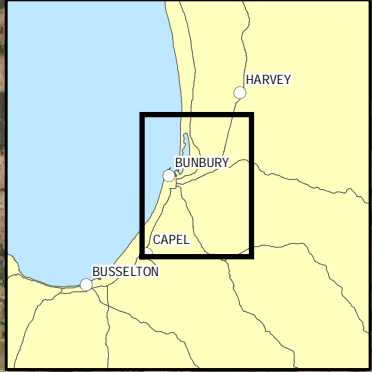
Project No. 61-37041
Revision No. 2
Date 4/05/2020

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FIGURE 7

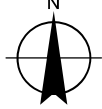


LEGEND

- Proposal Area
- Black Cockatoo Foraging Habitat – Regional, 12 km Radius (12,937 ha)
- Black Cockatoo Roosting Sites (DBCA 2018)
- Black Cockatoo Nesting Sites (DBCA 2019)



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 Grid: GDA 1994 Perth Coastal Grid 1994

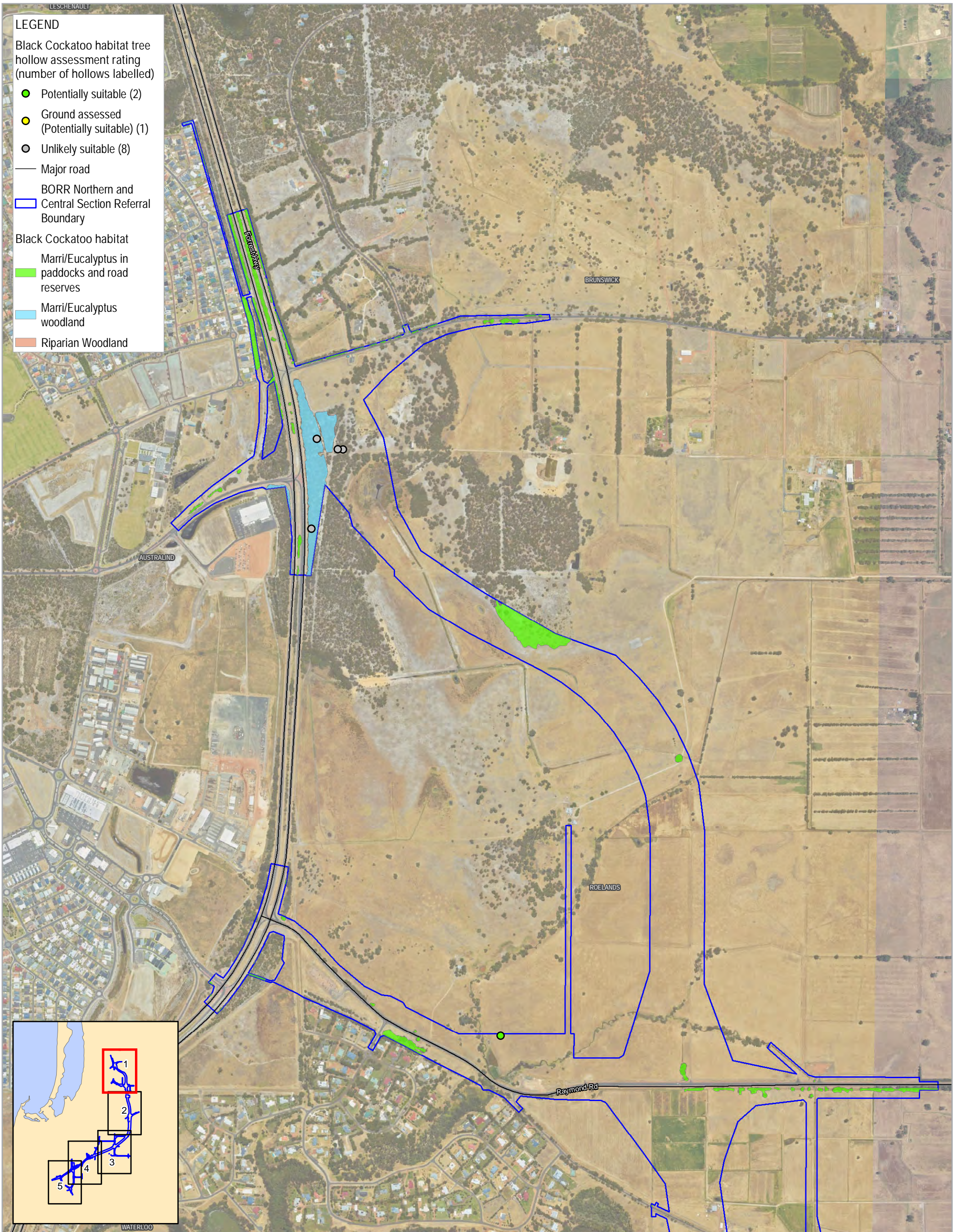


Main Roads Western Australia
 Bunbury Outer Ring Road Northern and Central Section
 EPBC Referral

Distribution of Regional Black Cockatoo
 Foraging Habitat, Nesting Sites and
 Roosting Sites identified by DBCA

Project No. 61-37041
 Revision No. 0
 Date 3/04/2020

FIGURE 8



LEGEND

Black Cockatoo habitat tree hollow assessment rating (number of hollows labelled)

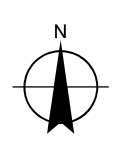
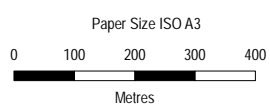
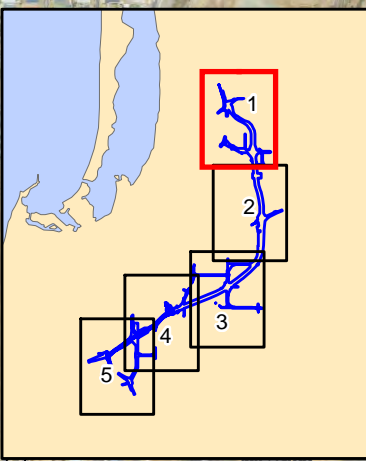
- Potentially suitable (2)
- Ground assessed (Potentially suitable) (1)
- Unlikely suitable (8)

— Major road

BORR Northern and Central Section Referral Boundary

Black Cockatoo habitat

- Marri/Eucalyptus in paddocks and road reserves
- Marri/Eucalyptus woodland
- Riparian Woodland



Map Projection: Transverse Mercator
 Horizontal Datum: GDA 1994
 Grid: GDA 1994 Perth Coastal Grid 1994



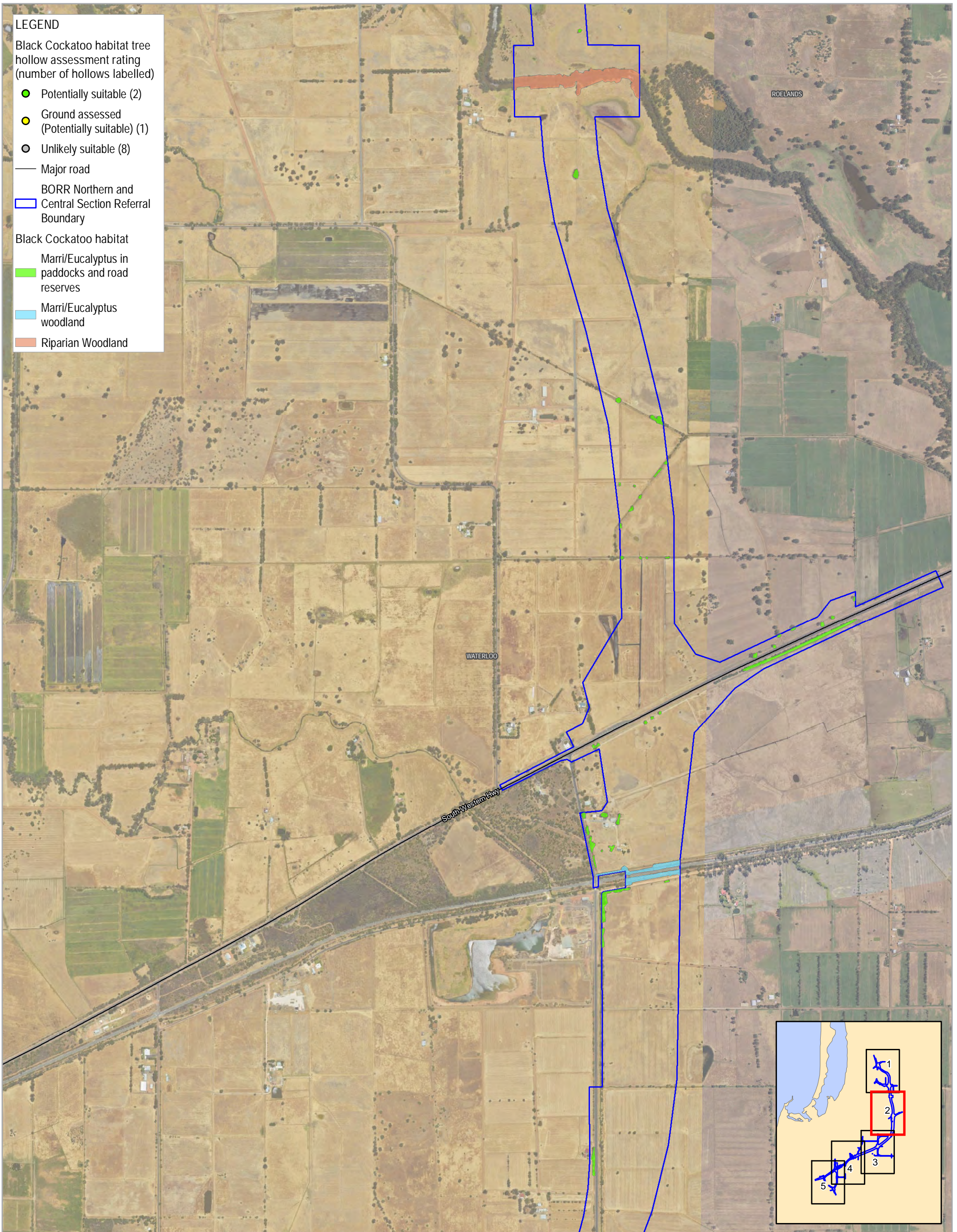
Main Roads Western Australia
 Bunbury Outer Ring Road Northern and Central Section
 EPBC Referral

Distribution of Black Cockatoo habitat within the Proposal Area with suitable DBH trees and nesting hollows shown

Project No. 61-37041
 Revision No. 1
 Date 3/04/2020

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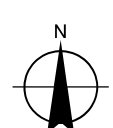
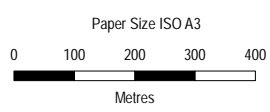
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Black Cockatoo habitat tree hollow assessment rating (number of hollows labelled)

- Potentially suitable (2)
- Ground assessed (Potentially suitable) (1)
- Unlikely suitable (8)

- Major road
- BORR Northern and Central Section Referral Boundary

- Black Cockatoo habitat
- Marri/Eucalyptus in paddocks and road reserves
 - Marri/Eucalyptus woodland
 - Riparian Woodland



Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
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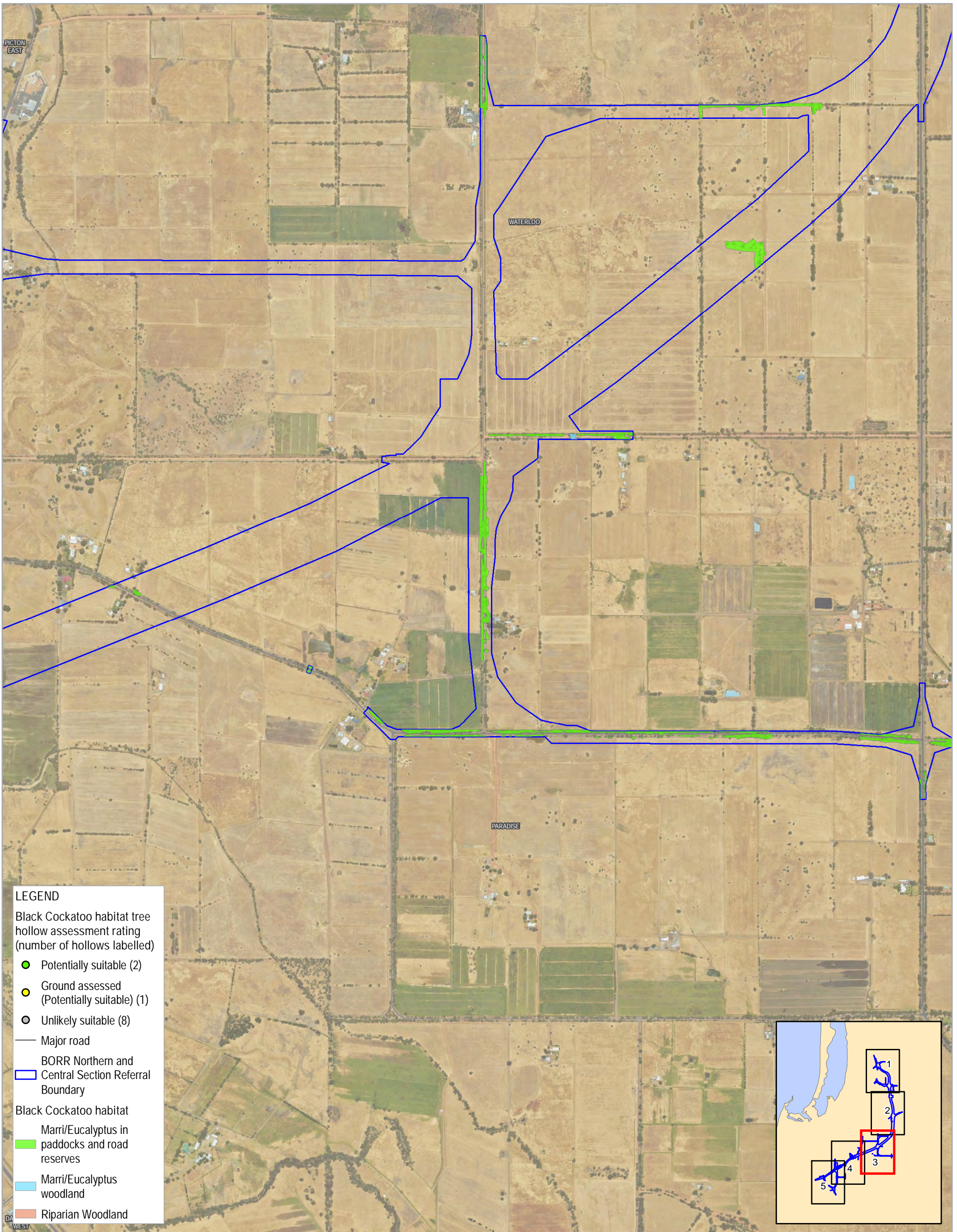
Main Roads Western Australia
Bunbury Outer Ring Road Northern and Central Section
EPBC Referral

Distribution of Black Cockatoo habitat within the Proposal Area with suitable DBH trees and nesting hollows shown

Project No. 61-37041
Revision No. 1
Date 3/04/2020

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LEGEND

Black Cockatoo habitat tree hollow assessment rating (number of hollows labelled)

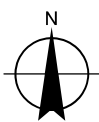
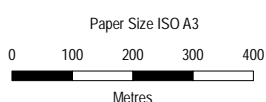
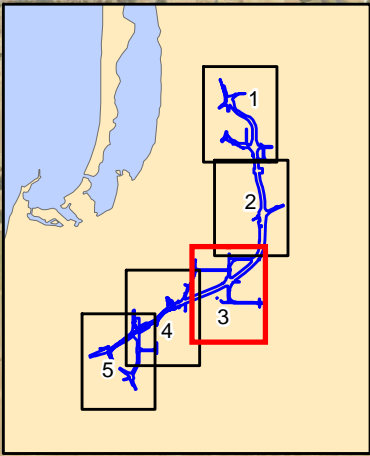
- Potentially suitable (2)
- Ground assessed (Potentially suitable) (1)
- Unlikely suitable (8)

— Major road

— BORR Northern and Central Section Referral Boundary

Black Cockatoo habitat

- Marri/Eucalyptus in paddocks and road reserves
- Marri/Eucalyptus woodland
- Riparian Woodland



Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
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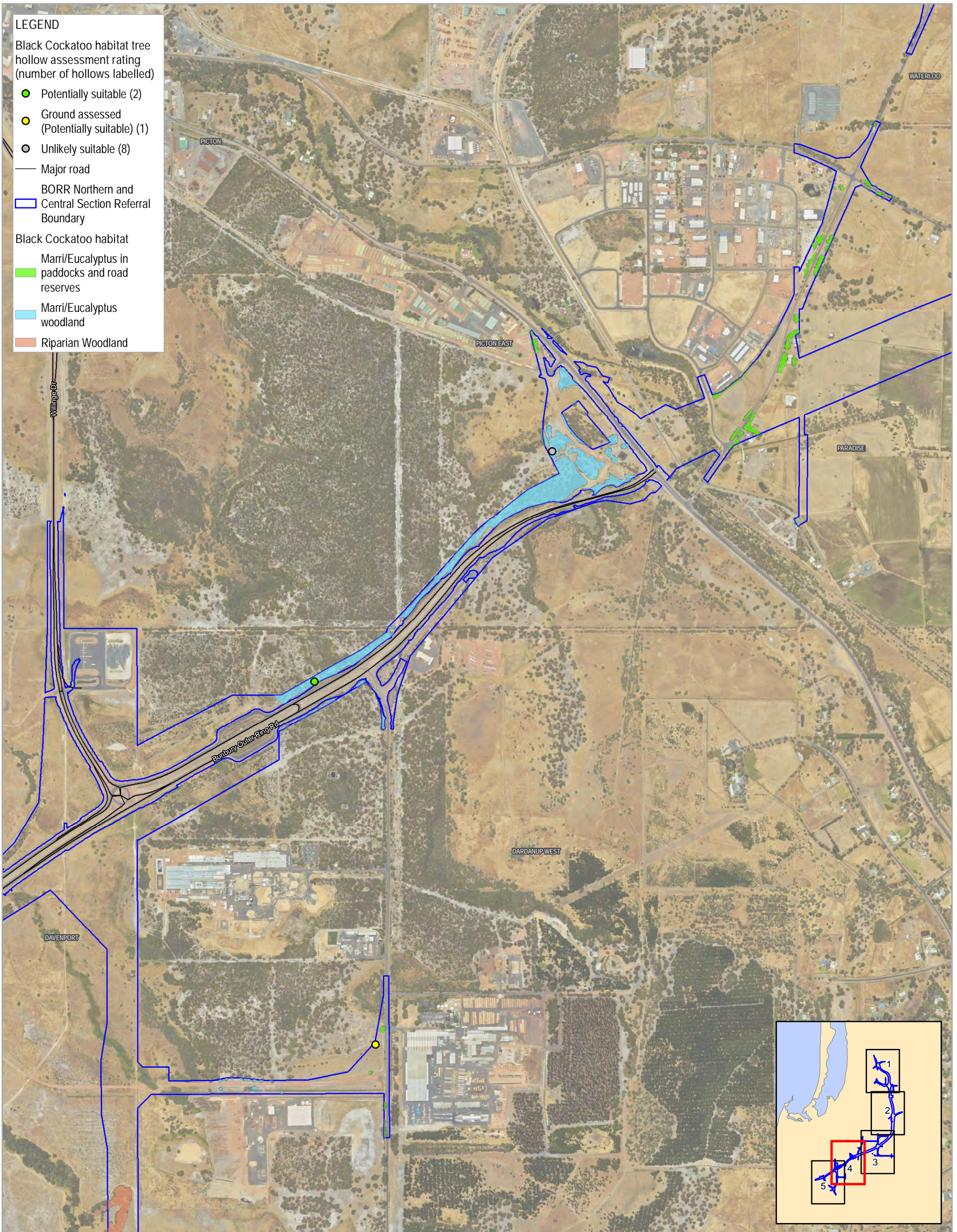


Main Roads Western Australia
Bunbury Outer Ring Road Northern and Central Section
EPBC Referral

Distribution of Black Cockatoo habitat
within the Proposal Area with suitable
DBH trees and nesting hollows shown

Project No. 61-37041
Revision No. 1
Date 3/04/2020

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FIGURE 9



LEGEND

Black Cockatoo habitat tree hollow assessment rating (number of hollows labelled)

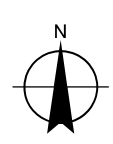
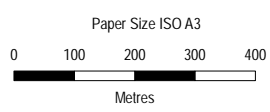
- Potentially suitable (2)
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- Unlikely suitable (8)

— Major road

BORR Northern and Central Section Referral Boundary

Black Cockatoo habitat

- Marri/Eucalyptus in paddocks and road reserves
- Marri/Eucalyptus woodland
- Riparian Woodland



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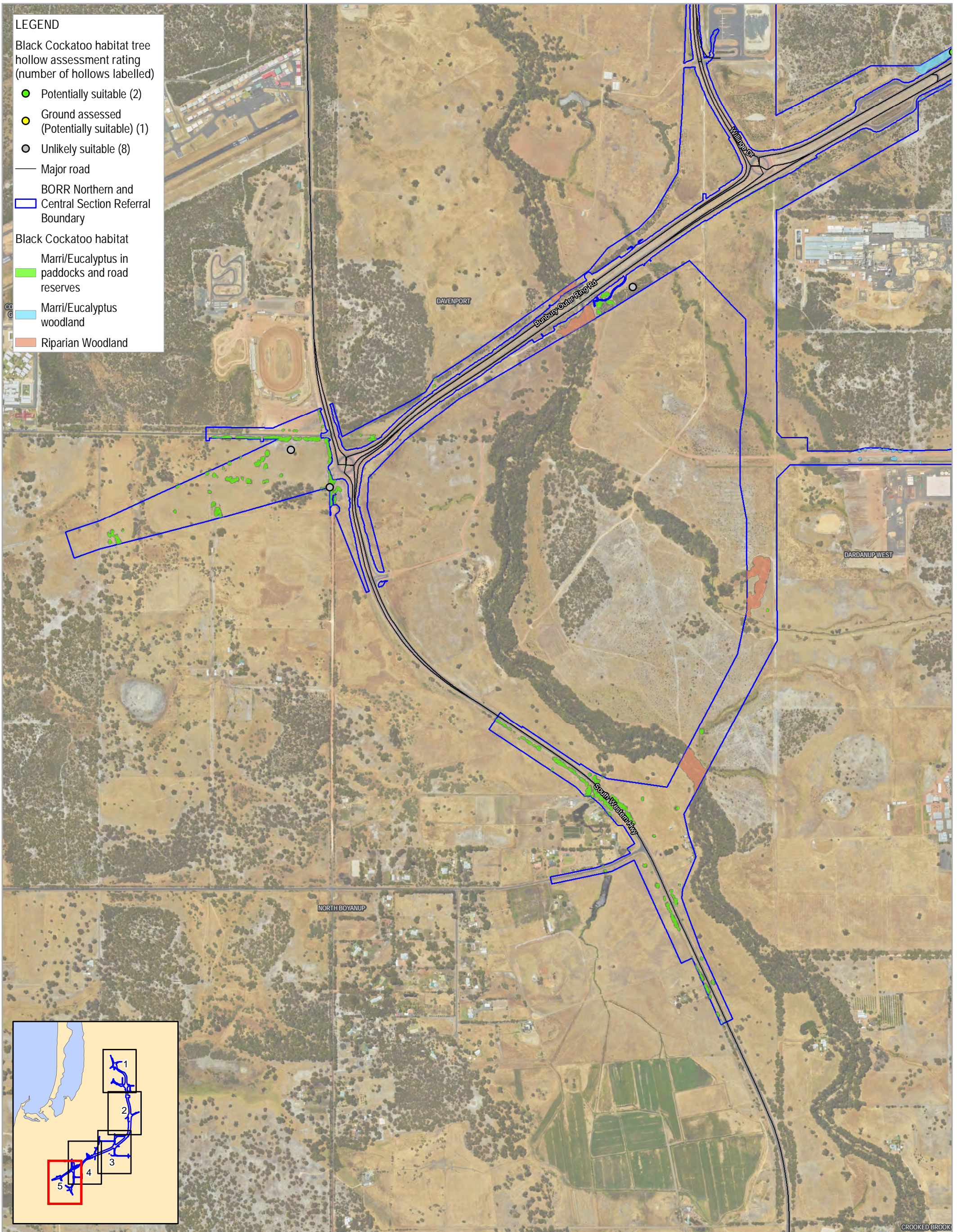
Main Roads Western Australia
Bunbury Outer Ring Road Northern and Central Section
EPBC Referral

Distribution of Black Cockatoo habitat within the Proposal Area with suitable DBH trees and nesting hollows shown

Project No. 61-37041
Revision No. 1
Date 3/04/2020

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LEGEND

Black Cockatoo habitat tree hollow assessment rating (number of hollows labelled)

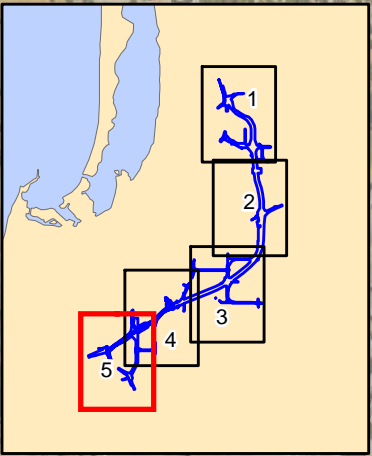
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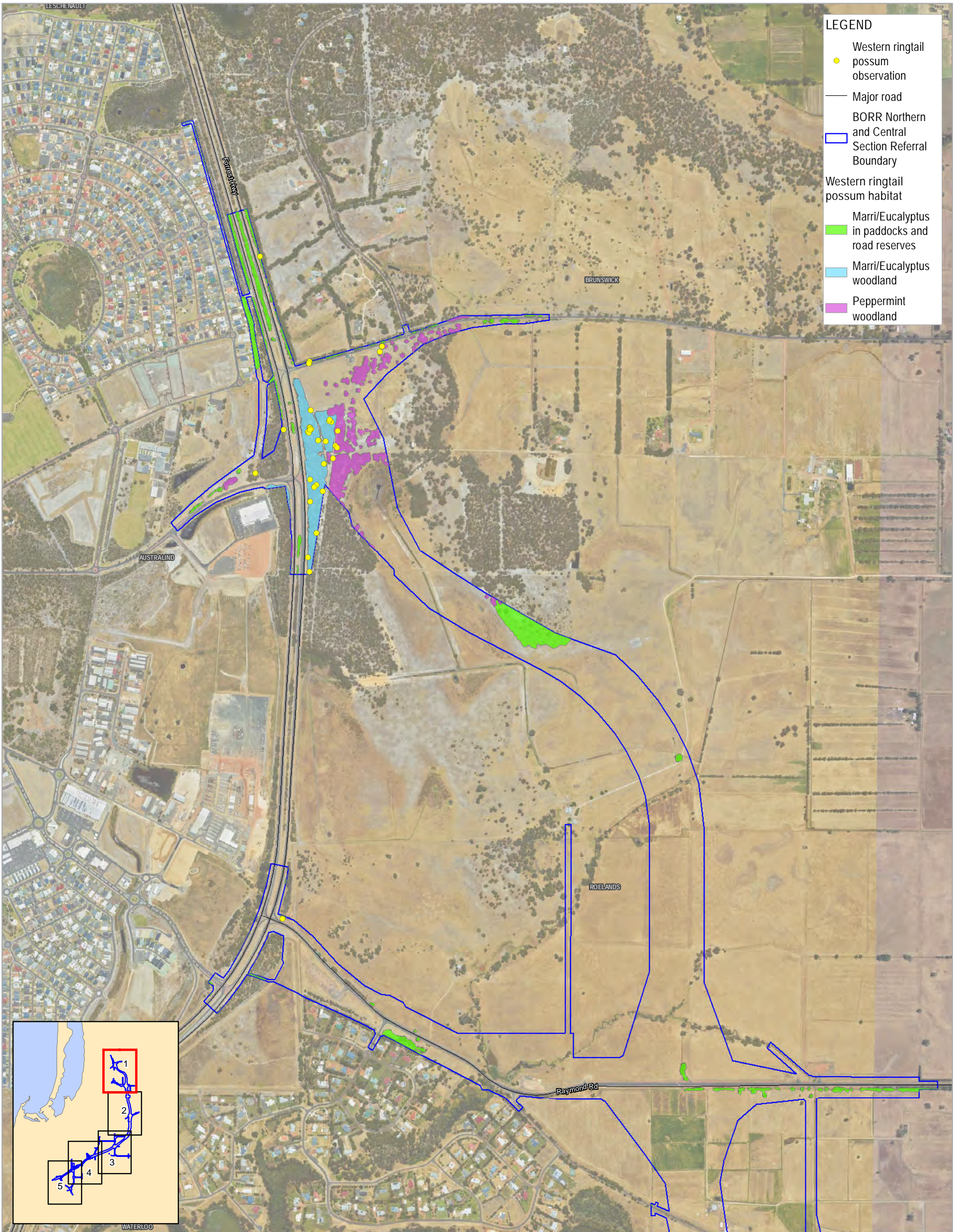
— Major road

BORR Northern and Central Section Referral Boundary

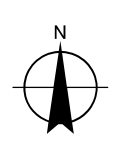
Black Cockatoo habitat

- Marri/Eucalyptus in paddocks and road reserves
- Marri/Eucalyptus woodland
- Riparian Woodland





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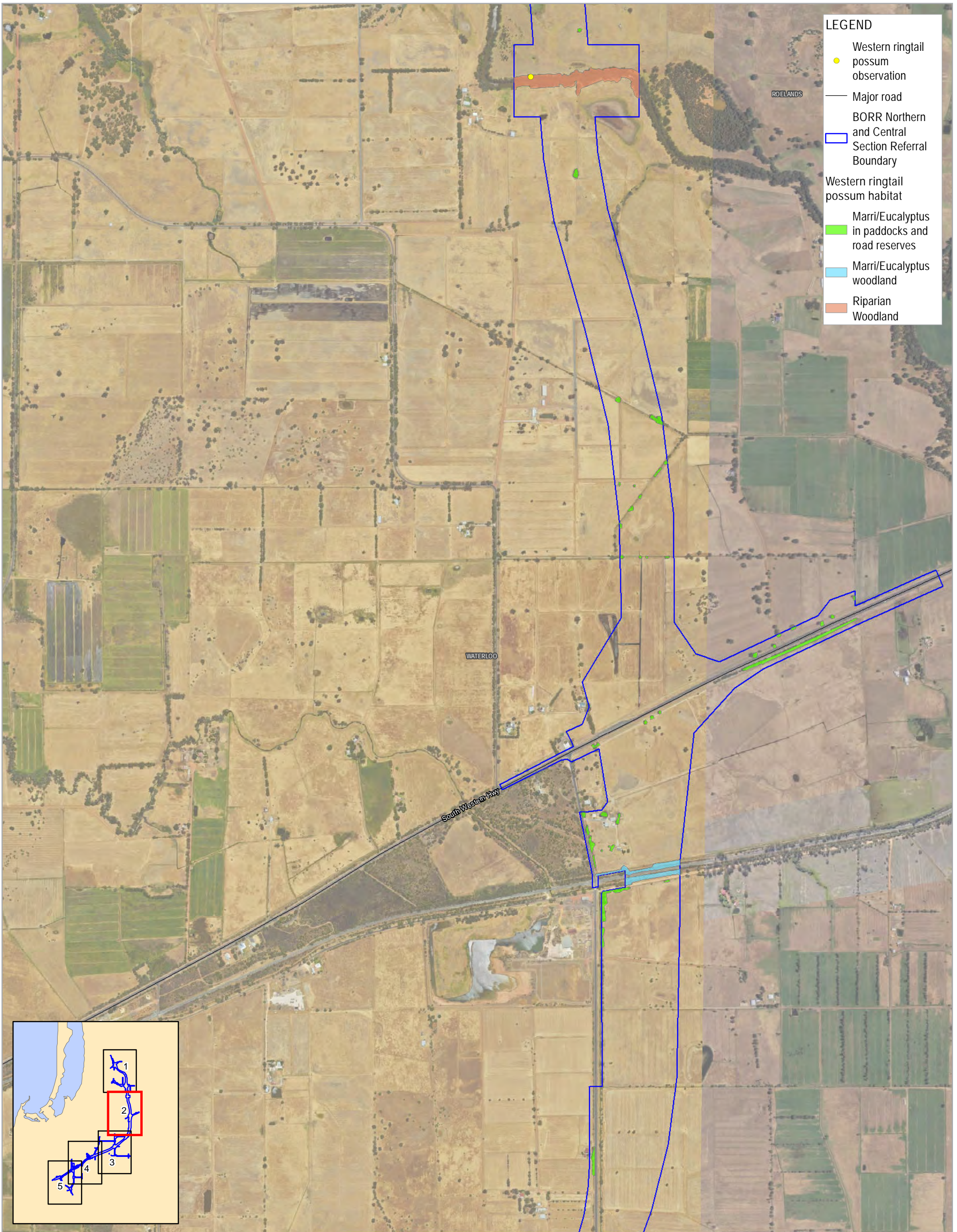


Main Roads Western Australia
 Bunbury Outer Ring Road Northern and Central Section
 EPBC Referral
**Distribution of Western Ringtail Possums
 with habitat types and extent within
 the Proposal Area**

Project No. 61-37041
 Revision No. 0
 Date 29/01/2020

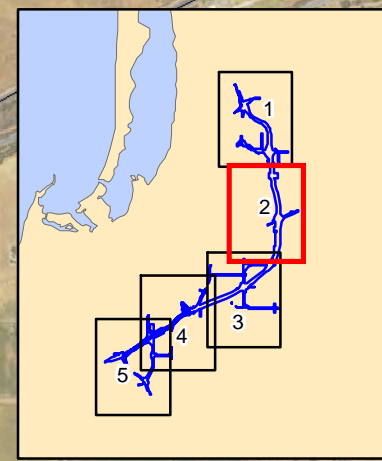
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LEGEND

- Western ringtail possum observation
- Major road
- BORR Northern and Central Section Referral Boundary
- Western ringtail possum habitat
- Marri/Eucalyptus in paddocks and road reserves
- Marri/Eucalyptus woodland
- Riparian Woodland



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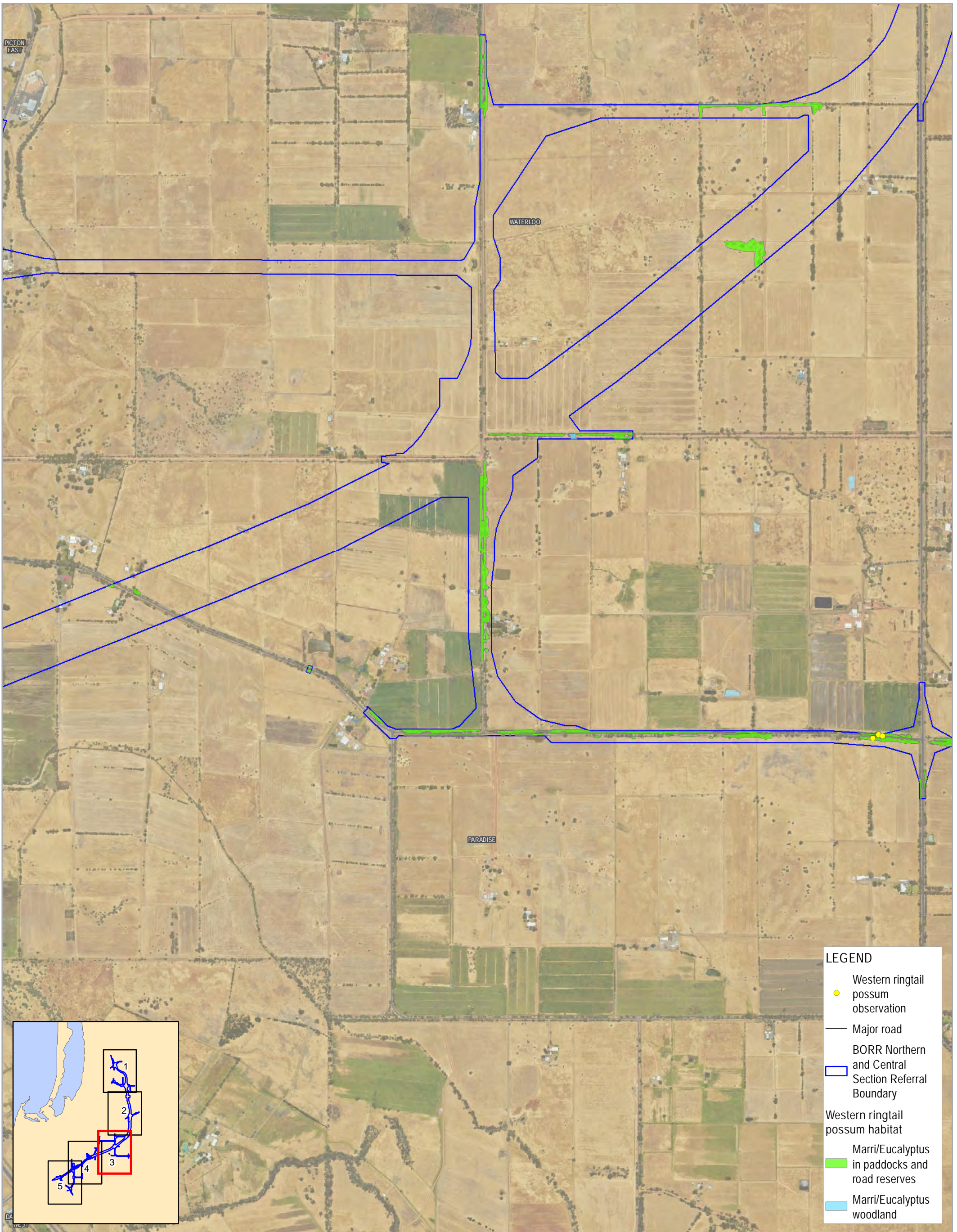
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Bunbury Outer Ring Road Northern and Central Section
EPBC Referral

**Distribution of Western Ringtail Possums
with habitat types and extent within
the Proposal Area**

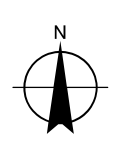
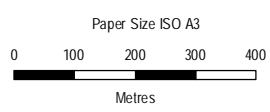
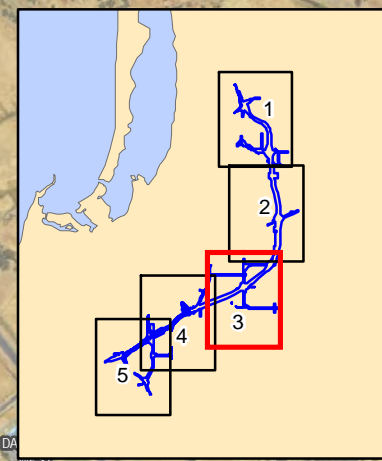
Project No. 61-37041
Revision No. 0
Date 29/01/2020

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FIGURE 10



LEGEND

- Western ringtail possum observation
- Major road
- BORR Northern and Central Section Referral Boundary
- Western ringtail possum habitat
- Marri/Eucalyptus in paddocks and road reserves
- Marri/Eucalyptus woodland



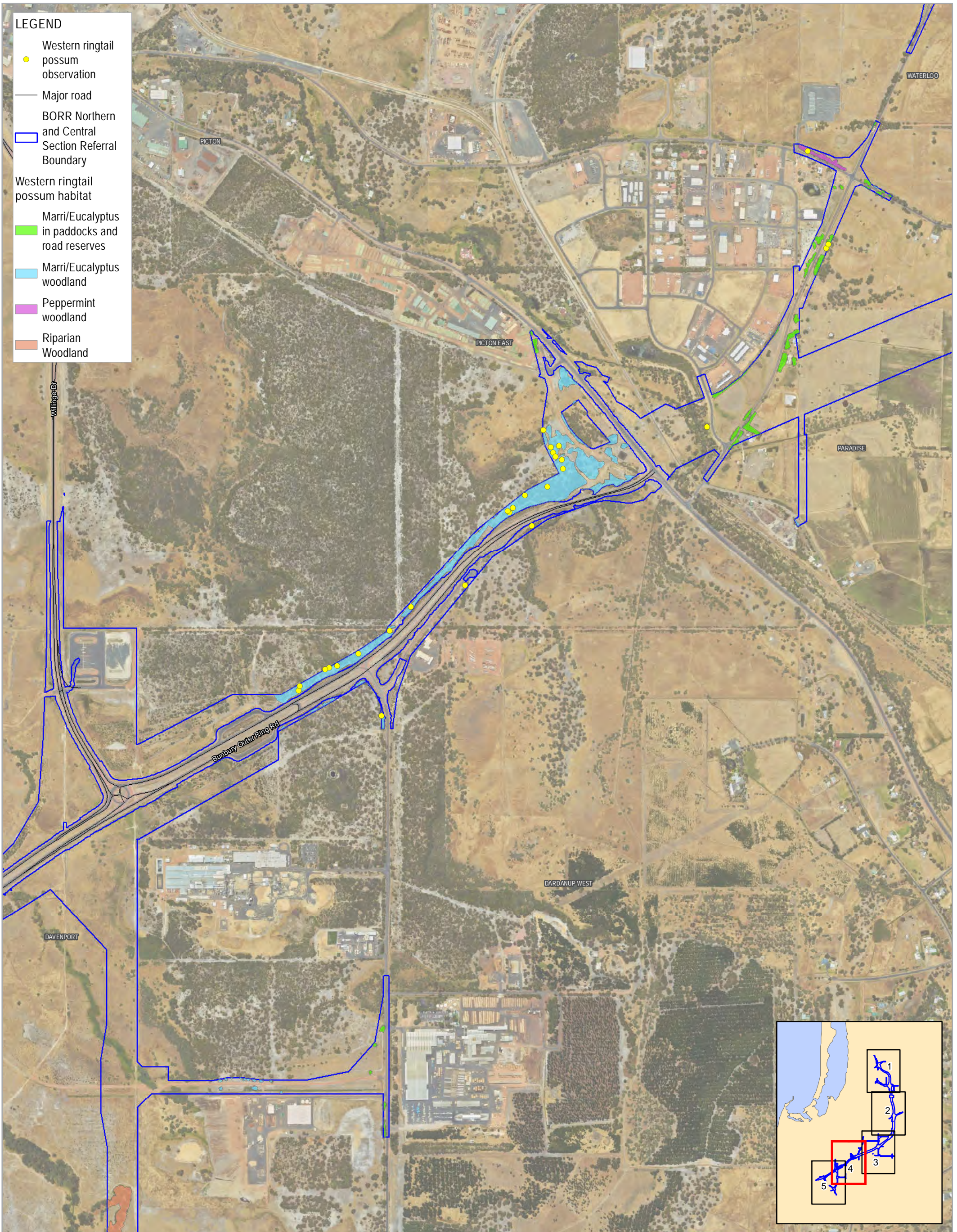
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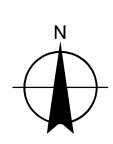
Main Roads Western Australia
Bunbury Outer Ring Road Northern and Central Section
EPBC Referral

**Distribution of Western Ringtail Possums
with habitat types and extent within
the Proposal Area**

Project No. 61-37041
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Date 29/01/2020



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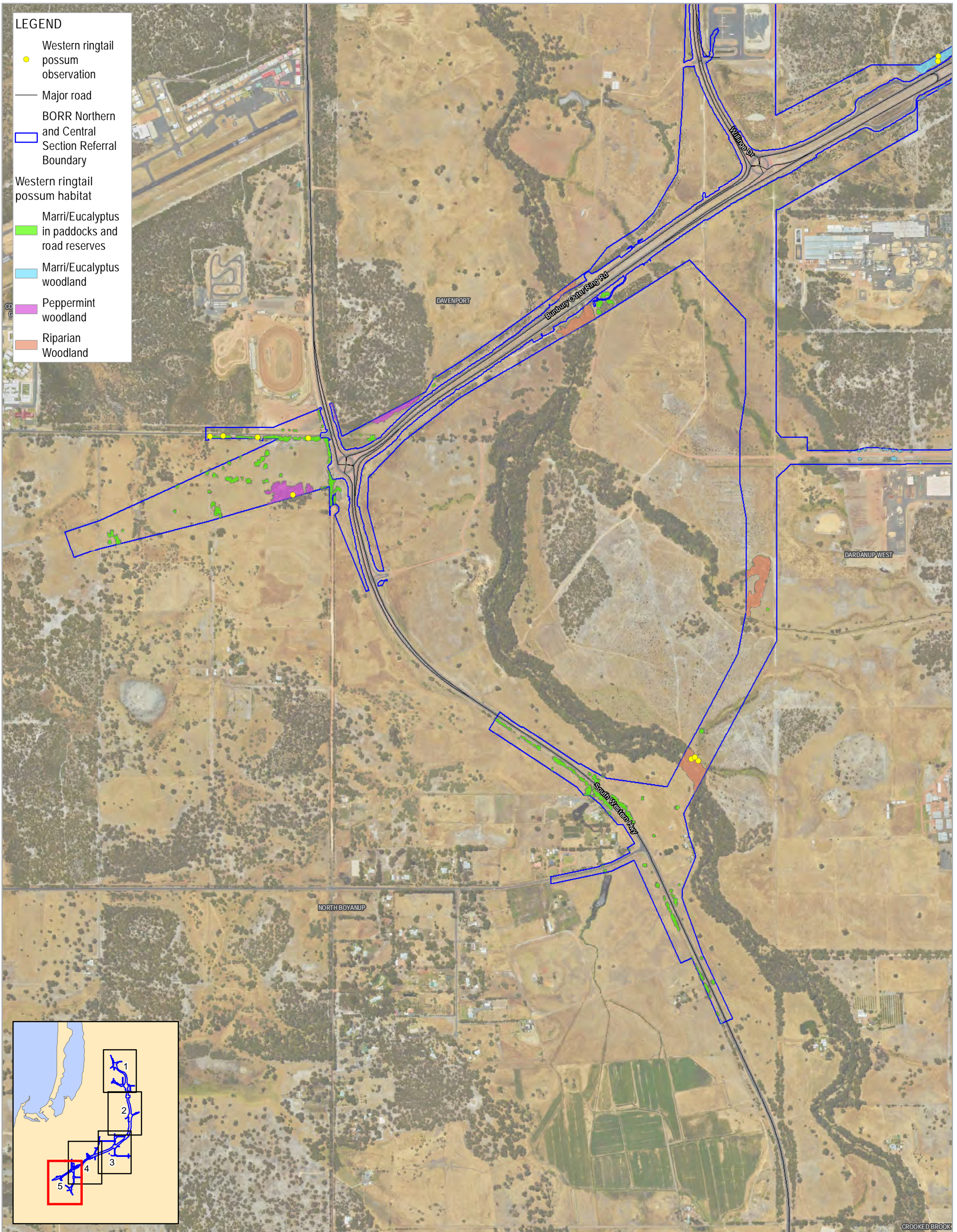


Main Roads Western Australia
 Bunbury Outer Ring Road Northern and Central Section
 EPBC Referral
 Distribution of Western Ringtail Possums
 with habitat types and extent within
 the Proposal Area

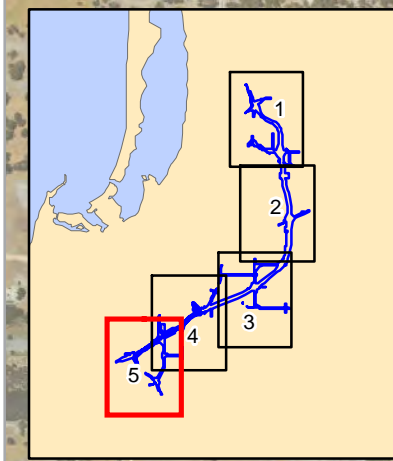
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 Revision No. 0
 Date 29/01/2020

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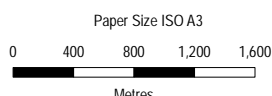
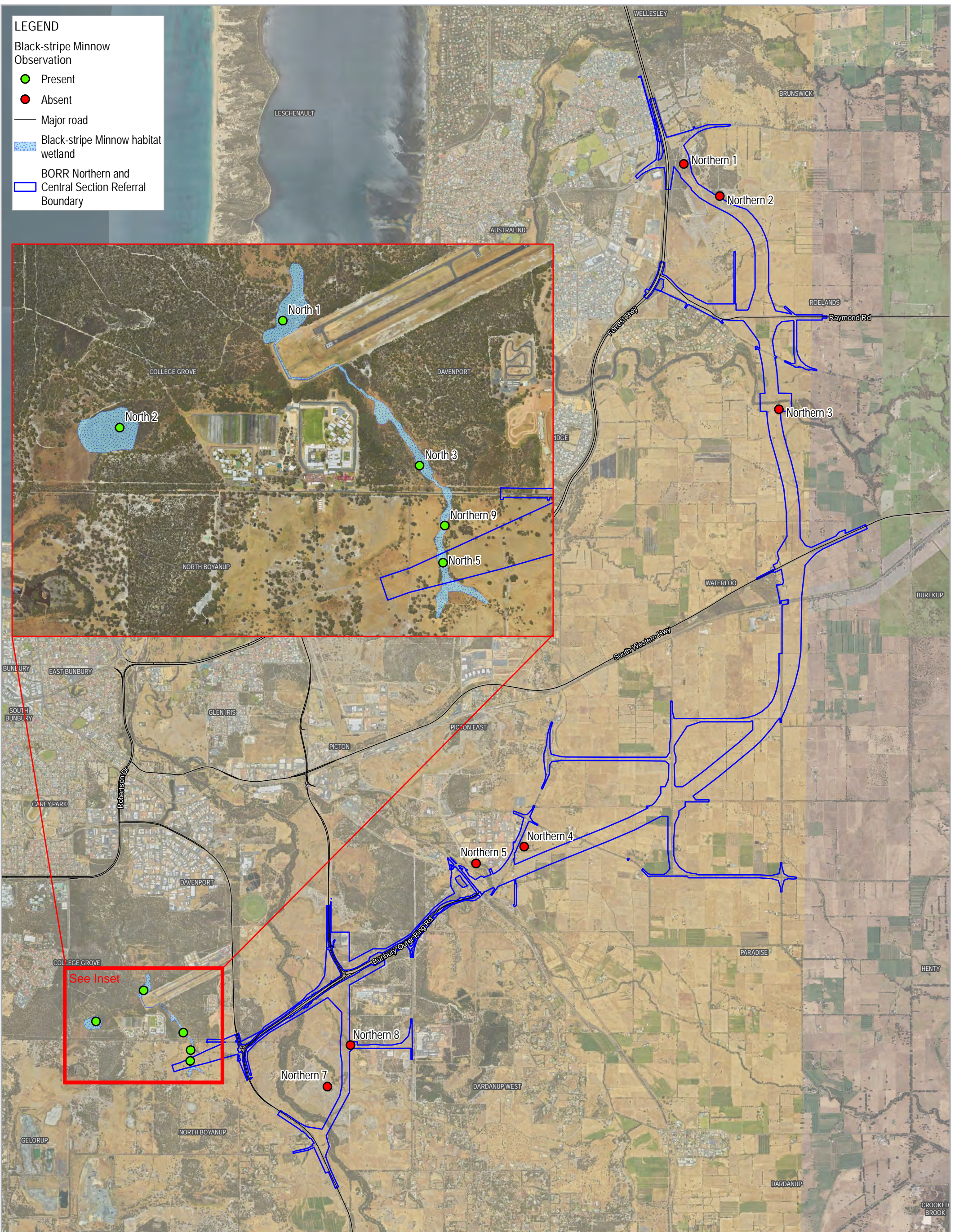
- LEGEND**
- Western ringtail possum observation
 - Major road
 - BORR Northern and Central Section Referral Boundary
 - Western ringtail possum habitat
 - Marri/Eucalyptus in paddocks and road reserves
 - Marri/Eucalyptus woodland
 - Peppermint woodland
 - Riparian Woodland



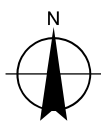
LEGEND

Black-stripe Minnow Observation

- Present
- Absent
- Major road
- Black-stripe Minnow habitat wetland
- BORR Northern and Central Section Referral Boundary



Map Projection: Transverse Mercator
 Horizontal Datum: GDA 1994
 Grid: GDA 1994 Perth Coastal Grid 1994



Main Roads Western Australia
 Bunbury Outer Ring Road Northern and Central Section
 EPBC Referral

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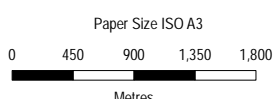
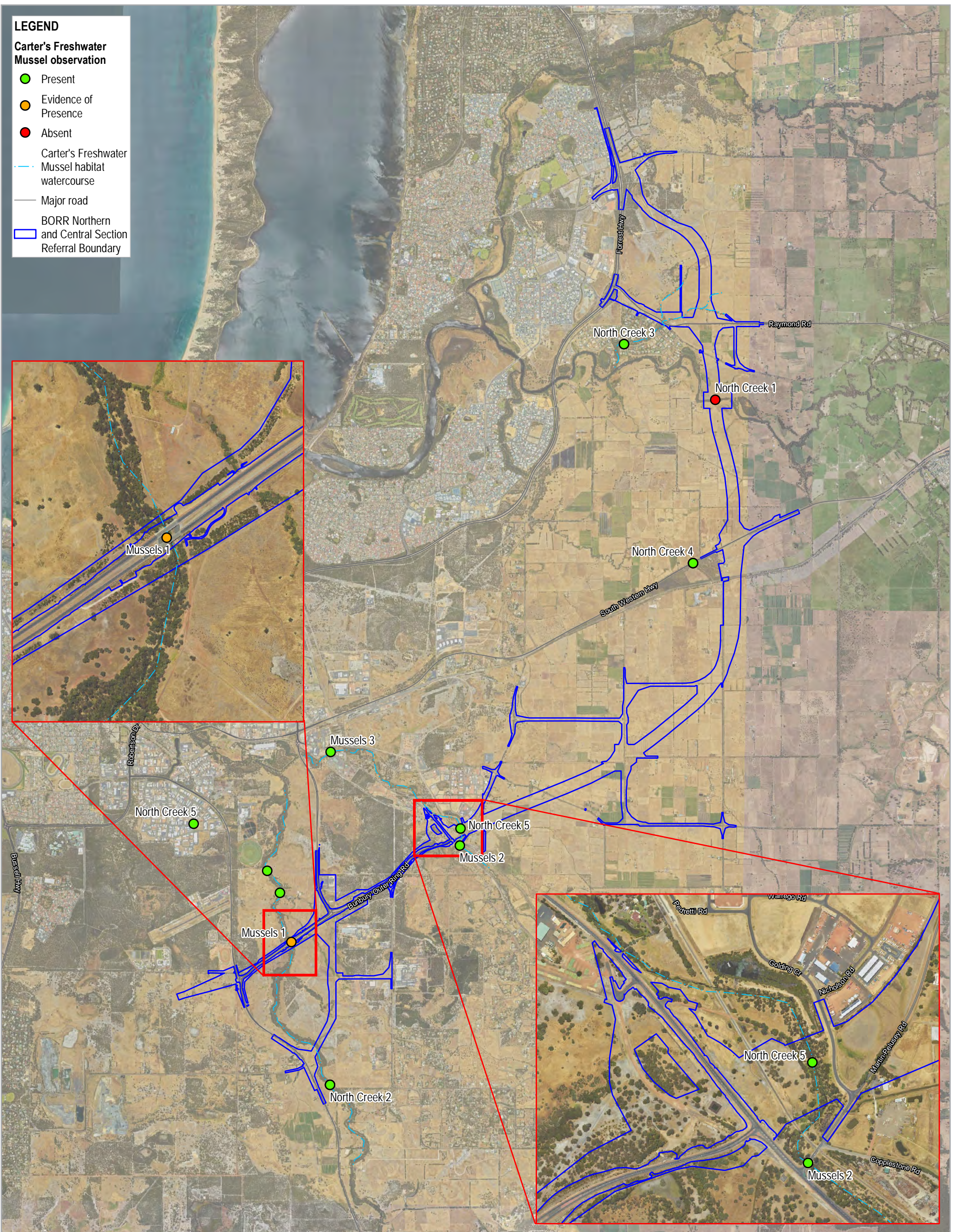
Black-stripe Minnow observations
 and habitat extent within the Proposal Area

FIGURE 11

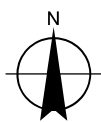
LEGEND

Carter's Freshwater Mussel observation

- Present
- Evidence of Presence
- Absent
- Carter's Freshwater Mussel habitat watercourse
- Major road
- BORR Northern and Central Section Referral Boundary



Map Projection: Transverse Mercator
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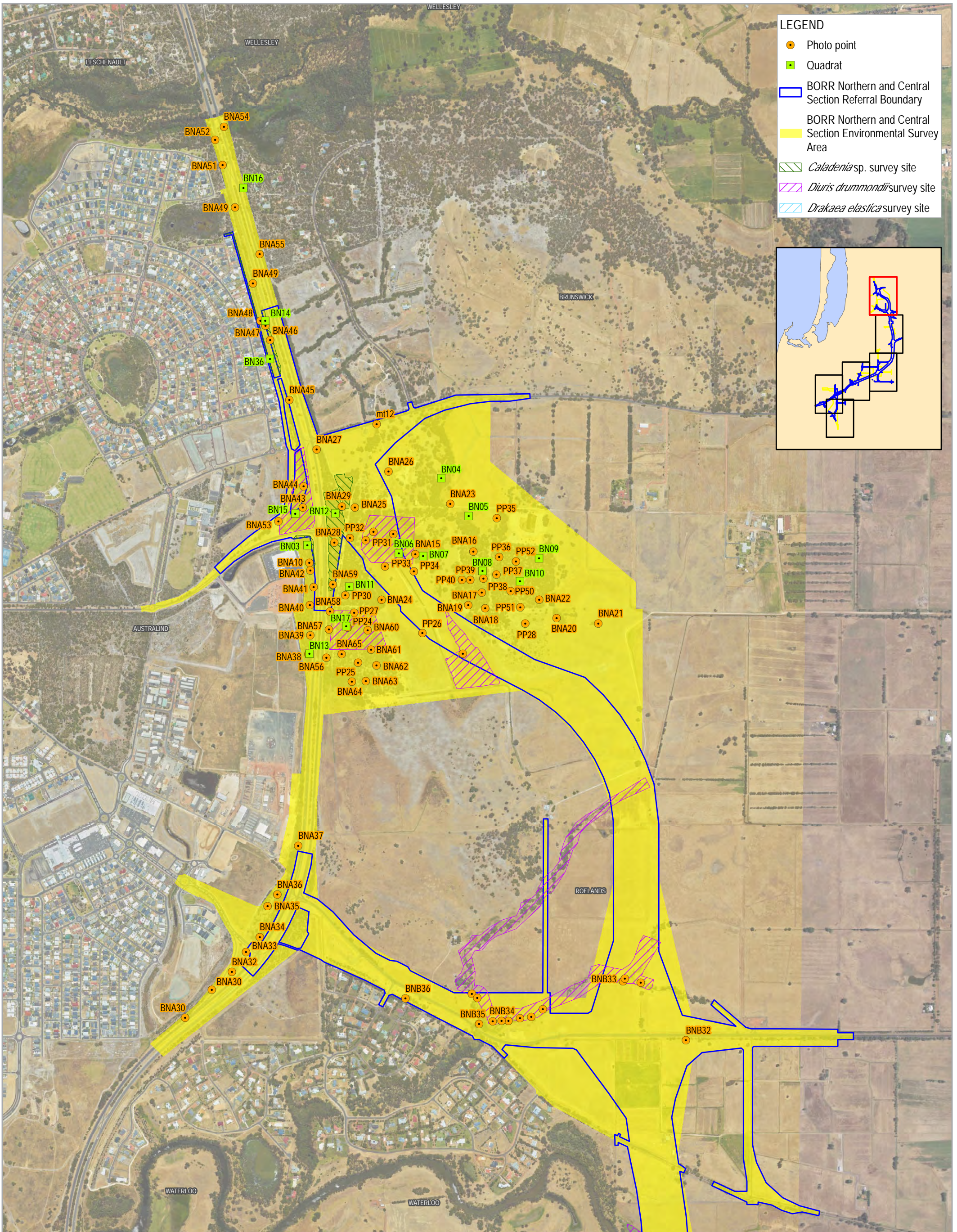


Main Roads Western Australia
Bunbury Outer Ring Road Northern and Central Section
EPBC Referral

Project No. 61-37041
Revision No. 0
Date 13/02/2020

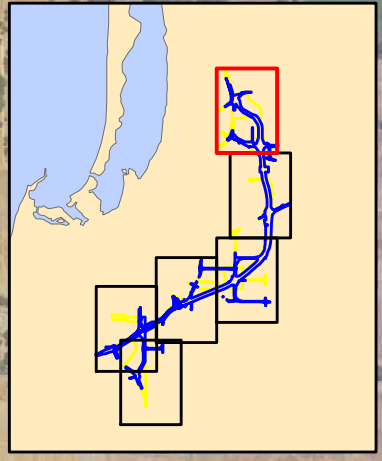
Carter's Freshwater Mussel observations and habitat extent within the Proposal Area

FIGURE 12

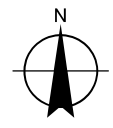


LEGEND

- Photo point
- Quadrat
- ▭ BORR Northern and Central Section Referral Boundary
- ▭ BORR Northern and Central Section Environmental Survey Area
- ▨ *Caladenia* sp. survey site
- ▨ *Diuris drummondii* survey site
- ▨ *Drakaea elastica* survey site



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Grid: GDA 1994 Perth Coastal Grid 1994



Main Roads Western Australia
Bunbury Outer Ring Road Northern and Central Section
EPBC Referral

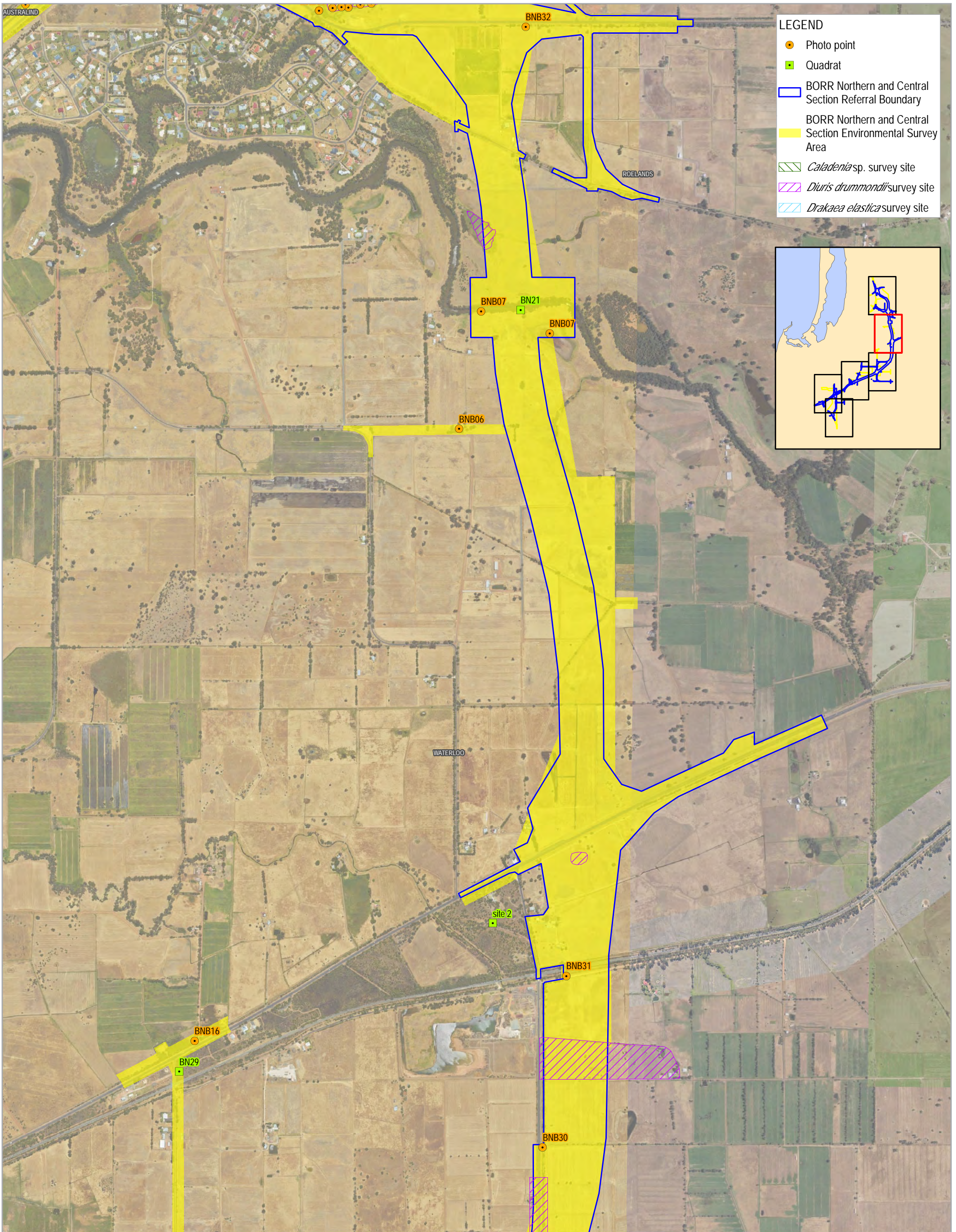
Project No. 61-37041
Revision No. 1
Date 3/04/2020

Flora and vegetation studies
undertaken for the Proposal

Page 1 of 6
FIGURE 13

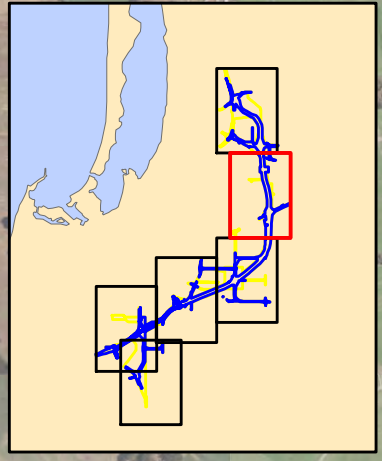
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Data source: BORR team: North environmental survey area - 20191025, North referral boundary - 20191016, *Diuris drummondii*, *Drakaea* survey locations - 20181220, Quadrats, Photo points - 2018; Landgate: Roads - 201805, Localities - 20180319, Imagery - WA Now accessed 20200403. Created by: sli



LEGEND

- Photo point
- Quadrat
- BORR Northern and Central Section Referral Boundary
- BORR Northern and Central Section Environmental Survey Area
- ▨ *Caladenia* sp. survey site
- ▨ *Diuris drummondii* survey site
- ▨ *Drakaea elastica* survey site



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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 Perth Coastal Grid 1994

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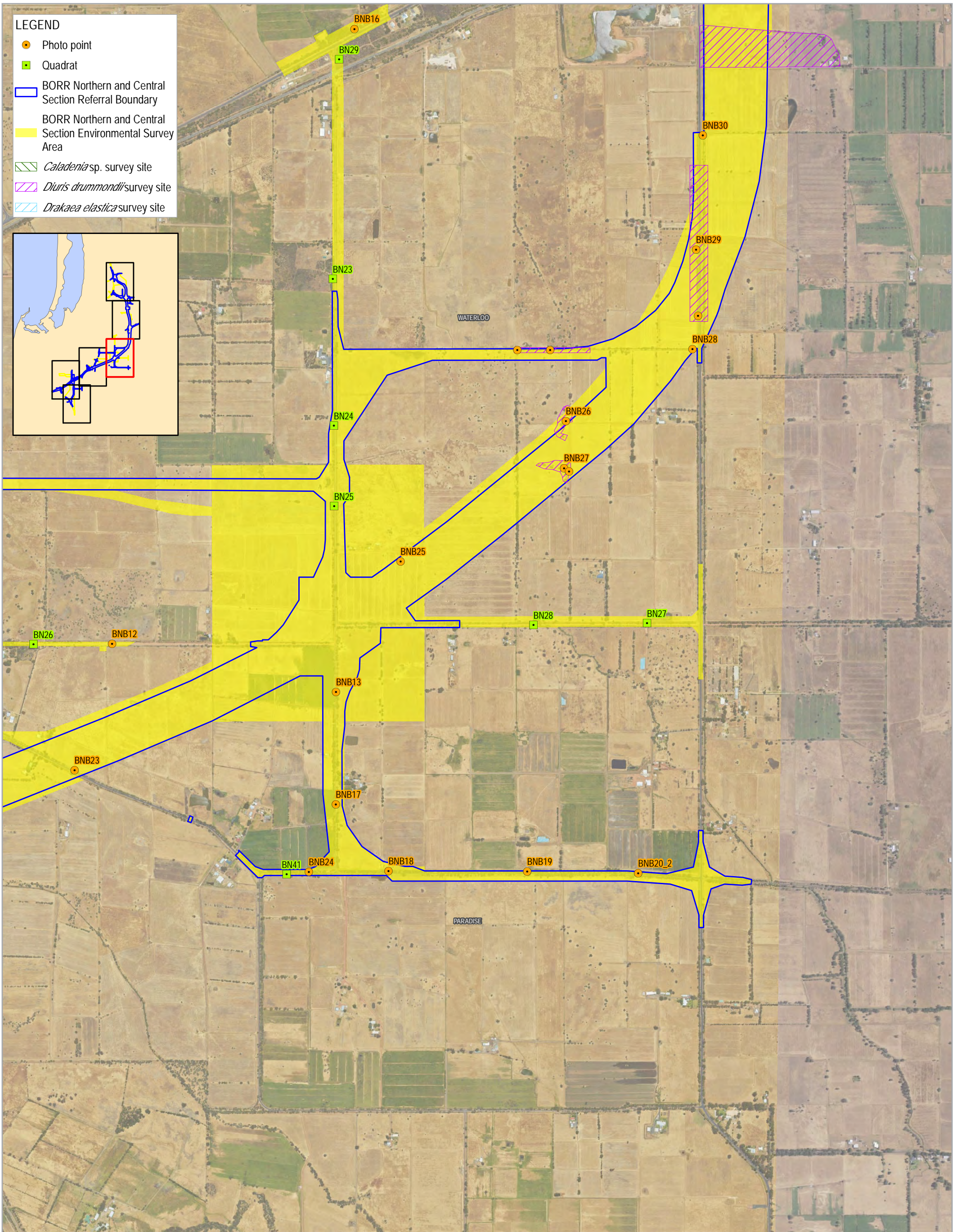
Flora and vegetation studies
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Revision No. 1
Date 3/04/2020

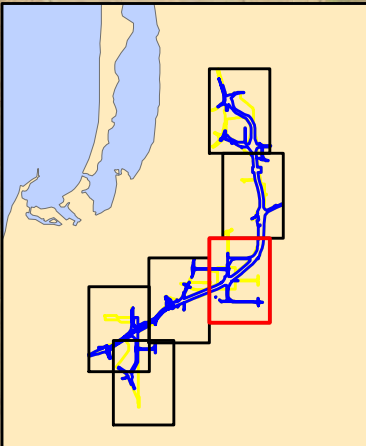
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FIGURE 13

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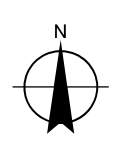
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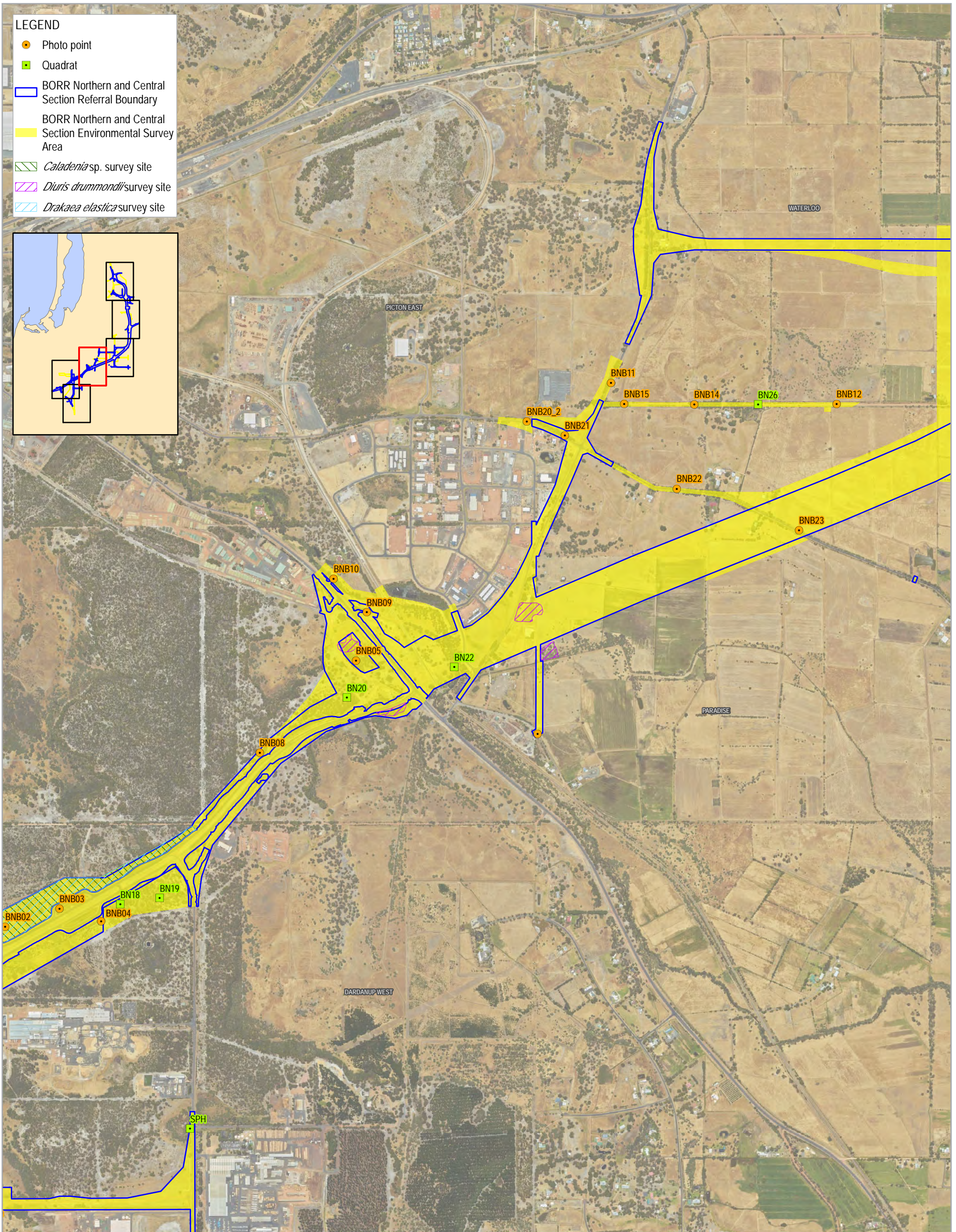
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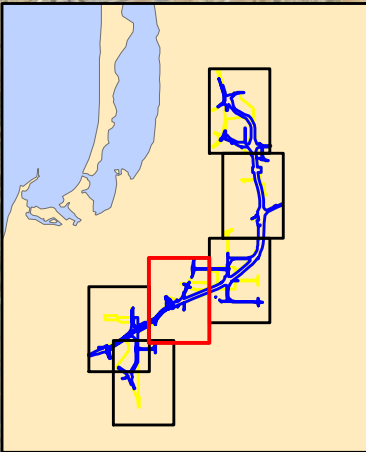
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FIGURE 13

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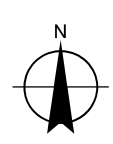
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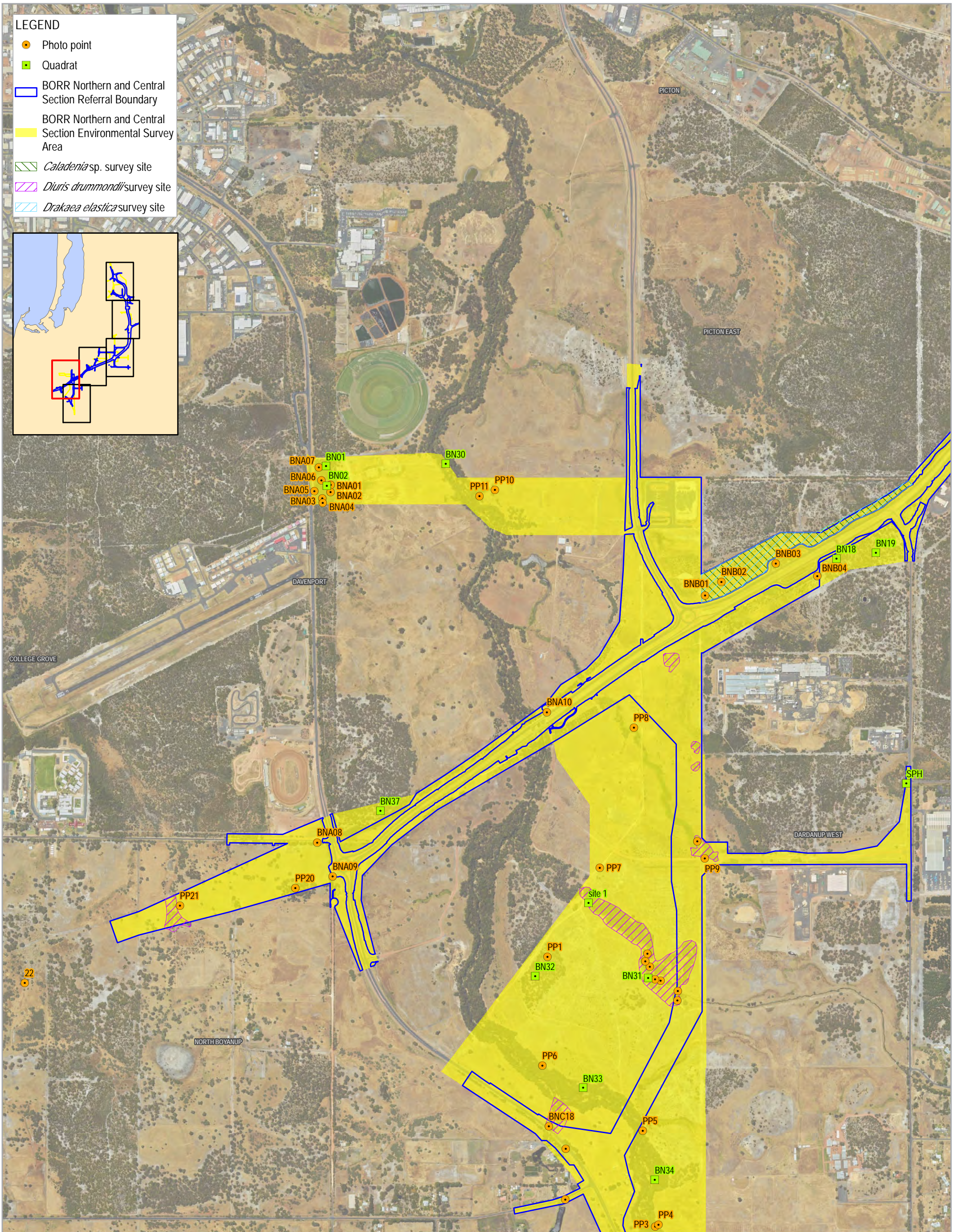
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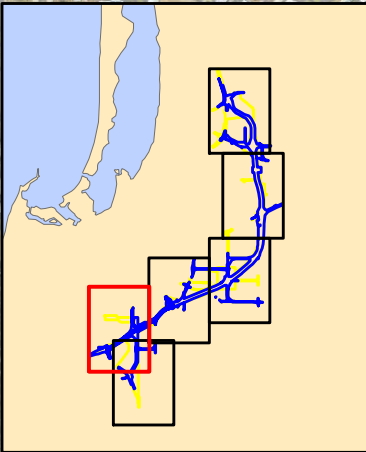
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FIGURE 13

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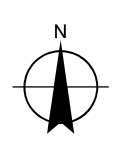
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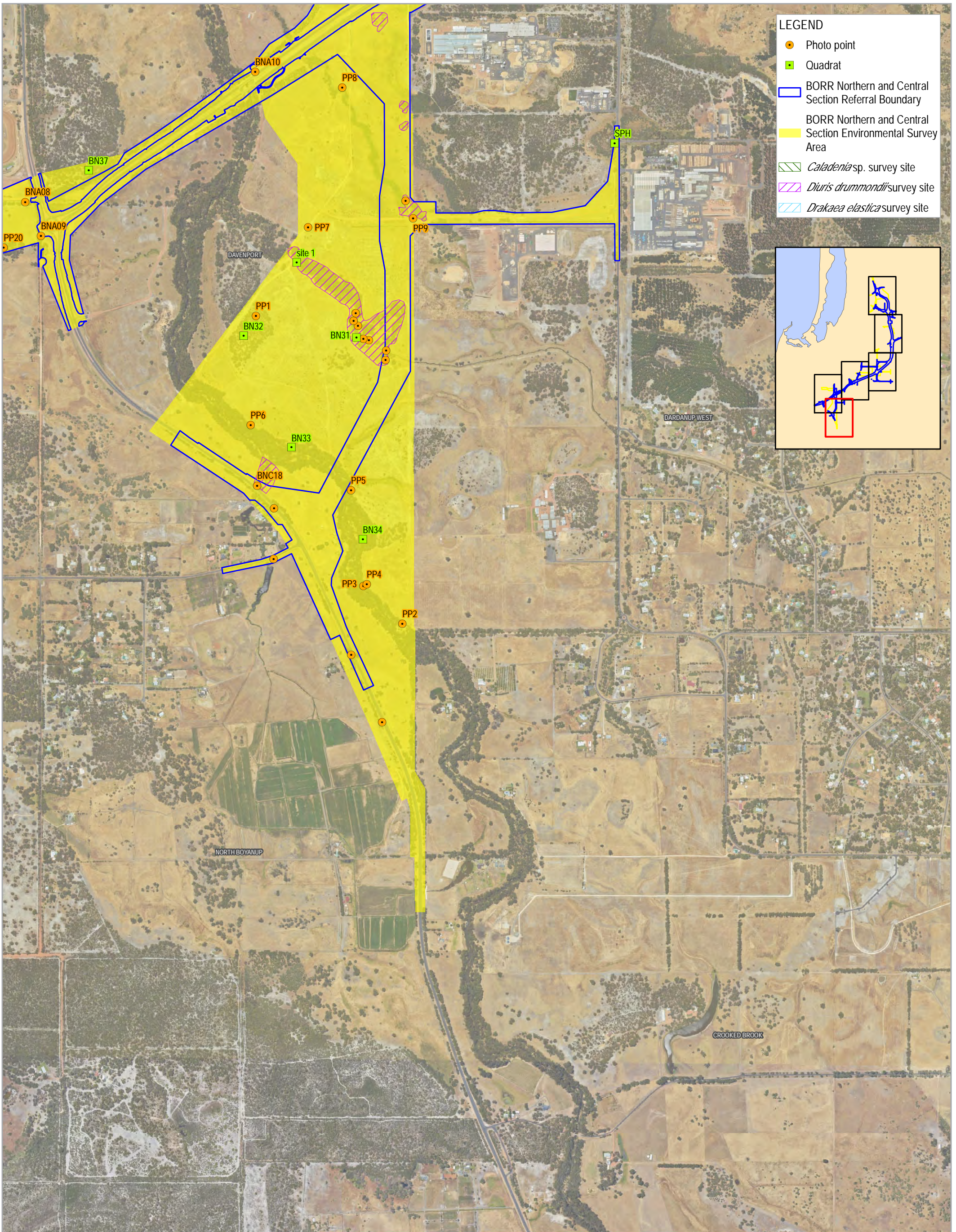
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FIGURE 13

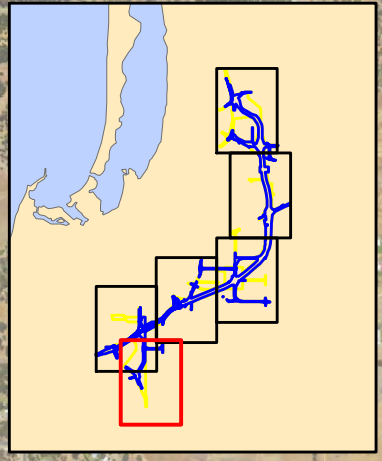
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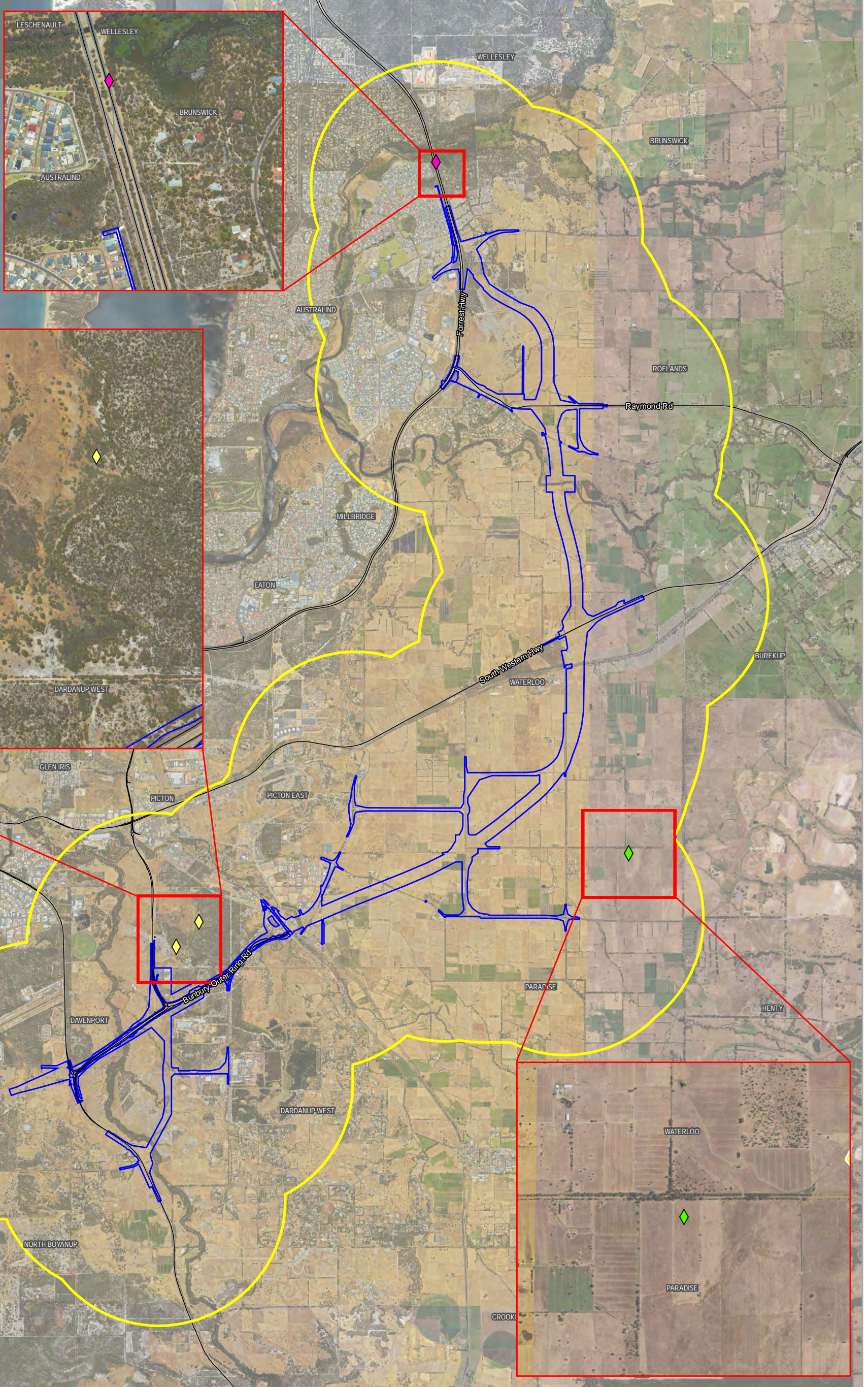
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FIGURE 13

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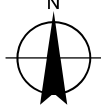
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- LEGEND**
- ◆ *Diuris drummondii*(T)
 - ◆ *Drakaea elastica*(T)
 - ◆ *Eleocharis keigheryi*(T)
 - Major road
 - BORR Northern and Central Section Referral Boundary
 - BORR Northern and Central Section Referral Boundary 2km Buffer



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Map Projection: Transverse Mercator
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 Grid: GDA 1994 Perth Coastal Grid 1994



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King Spider-orchid (*Caladenia huegellii*), Tall Donkey Orchid (*Diuris drummondii*), Glossy-leaved Hammer Orchid (*Drakaea elastica*) and Keighery's Eleocharis (*Eleocharis keigheryi*) populations within 2 km of the Proposal Area

FIGURE 14