

APPENDIX A

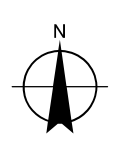
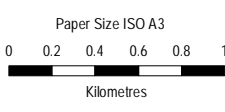
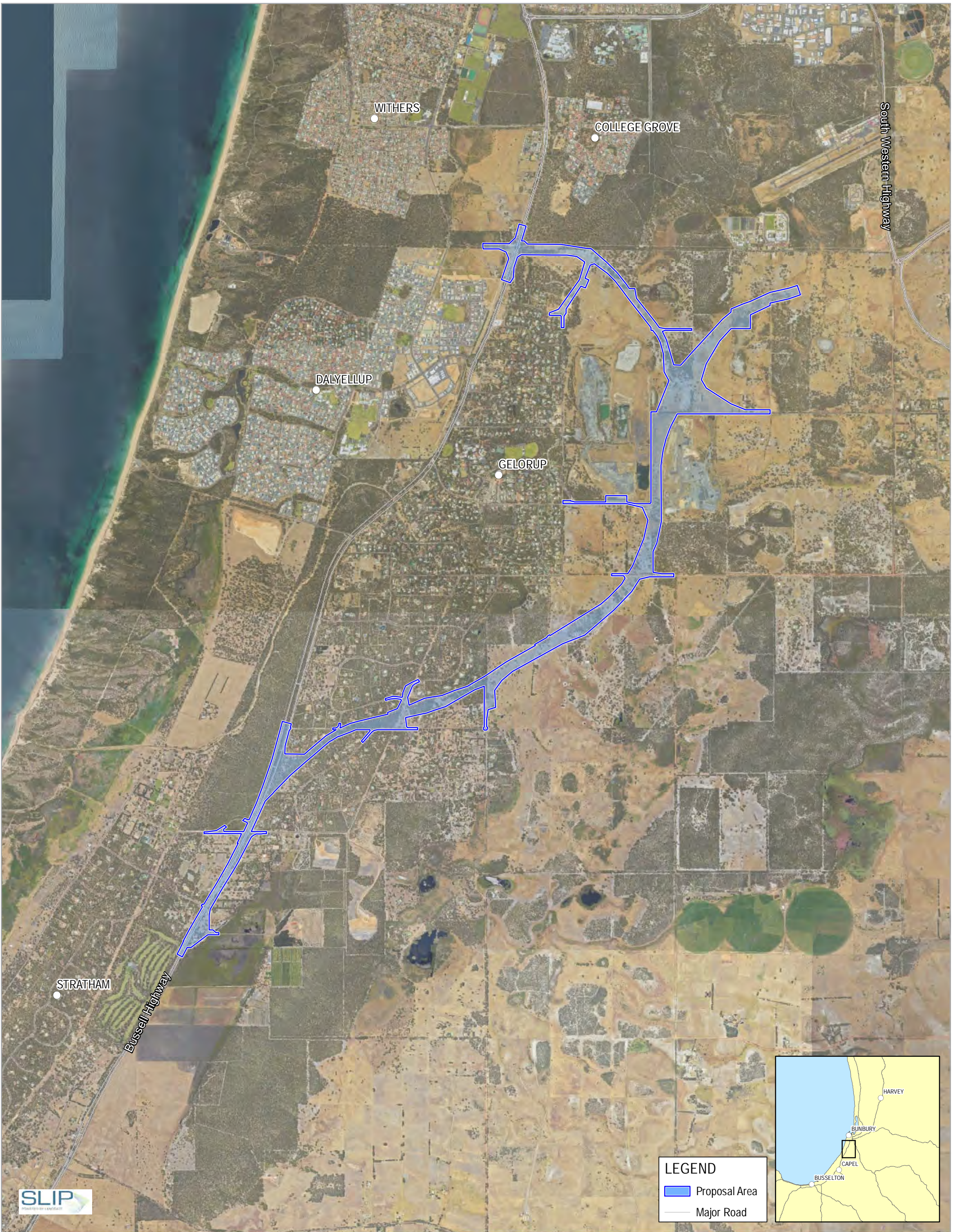
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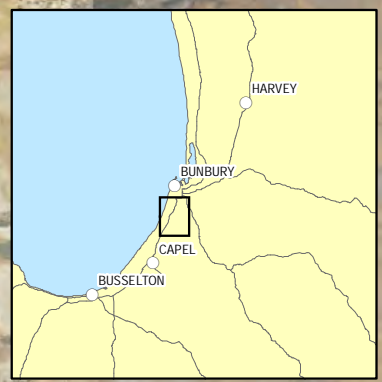
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LEGEND

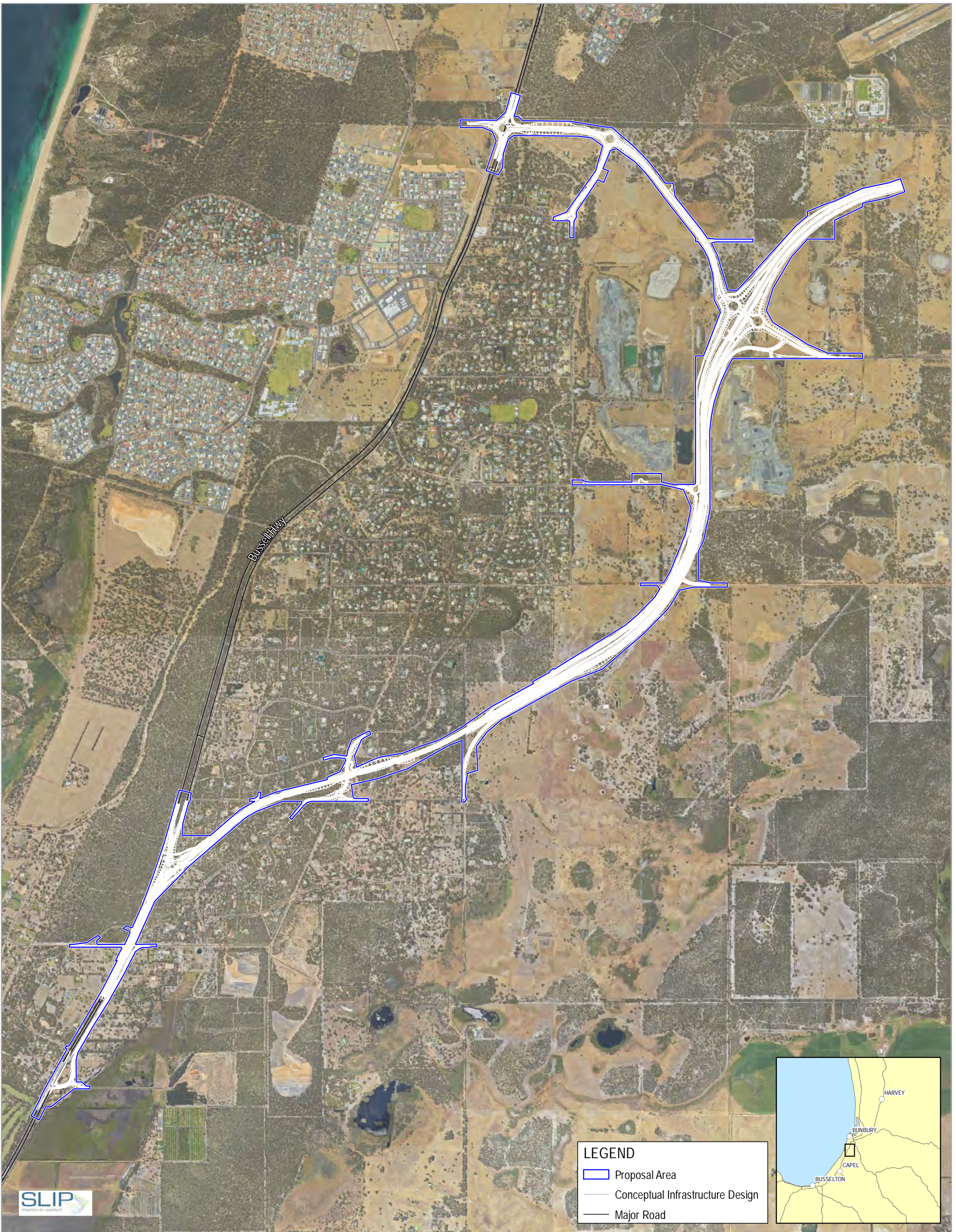
- Proposal Area
- Major Road



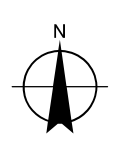
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Proposal Area

FIGURE 1



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Kilometres



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



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FIGURE 3

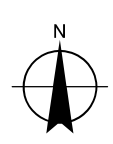


LEGEND

- █ GBRS Alignment (Investigated)
- █ Alternative Alignment (Investigated)
- - - Other Alignment Concepts (Not Investigated)
- Major Road



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Map Projection: Transverse Mercator
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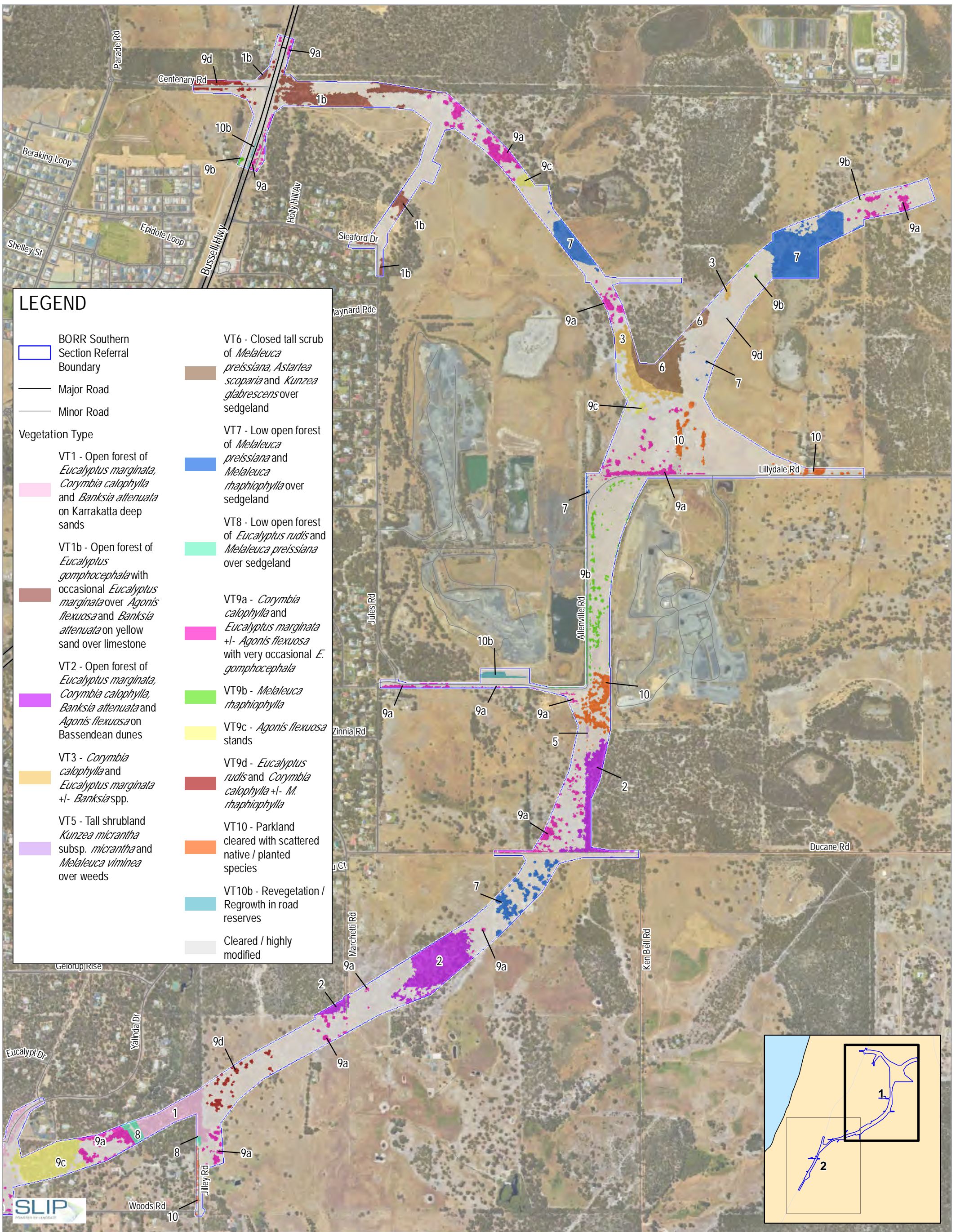
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FIGURE 4

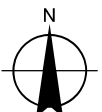
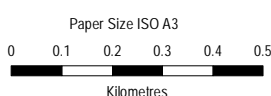
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Data source: Geoscience Australia: GeoData Topo 250k Series III - 2006; Landgate: Roads - 20180501; Imagery - WA Now accessed 20200709; BORR: GBRS Alignment (Assessed), Alternative Alignment (Assessed), Other Alignment Concepts (Not Assessed) - 2018. Created by: slt



LEGEND

- BORR Southern Section Referral Boundary
 - Major Road
 - Minor Road
- Vegetation Type**
- VT1 - Open forest of *Eucalyptus marginata*, *Corymbia calophylla* and *Banksia attenuata* on Karrakatta deep sands
 - VT1b - Open forest of *Eucalyptus gomphocephala* with occasional *Eucalyptus marginata* over *Agonis flexuosa* and *Banksia attenuata* on yellow sand over limestone
 - VT2 - Open forest of *Eucalyptus marginata*, *Corymbia calophylla*, *Banksia attenuata* and *Agonis flexuosa* on Bassendean dunes
 - VT3 - *Corymbia calophylla* and *Eucalyptus marginata* +/- *Banksia* spp.
 - VT5 - Tall shrubland *Kunzea micrantha* subsp. *micrantha* and *Melaleuca viminea* over weeds
 - VT6 - Closed tall scrub of *Melaleuca preissiana*, *Astartea scoparia* and *Kunzea glabrescens* over sedgeland
 - VT7 - Low open forest of *Melaleuca preissiana* and *Melaleuca raphiophylla* over sedgeland
 - VT8 - Low open forest of *Eucalyptus rudis* and *Melaleuca preissiana* over sedgeland
 - VT9a - *Corymbia calophylla* and *Eucalyptus marginata* +/- *Agonis flexuosa* with very occasional *E. gomphocephala*
 - VT9b - *Melaleuca raphiophylla*
 - VT9c - *Agonis flexuosa* stands
 - VT9d - *Eucalyptus rudis* and *Corymbia calophylla* +/- *M. raphiophylla*
 - VT10 - Parkland cleared with scattered native / planted species
 - VT10b - Revegetation / Regrowth in road reserves
 - Cleared / highly modified



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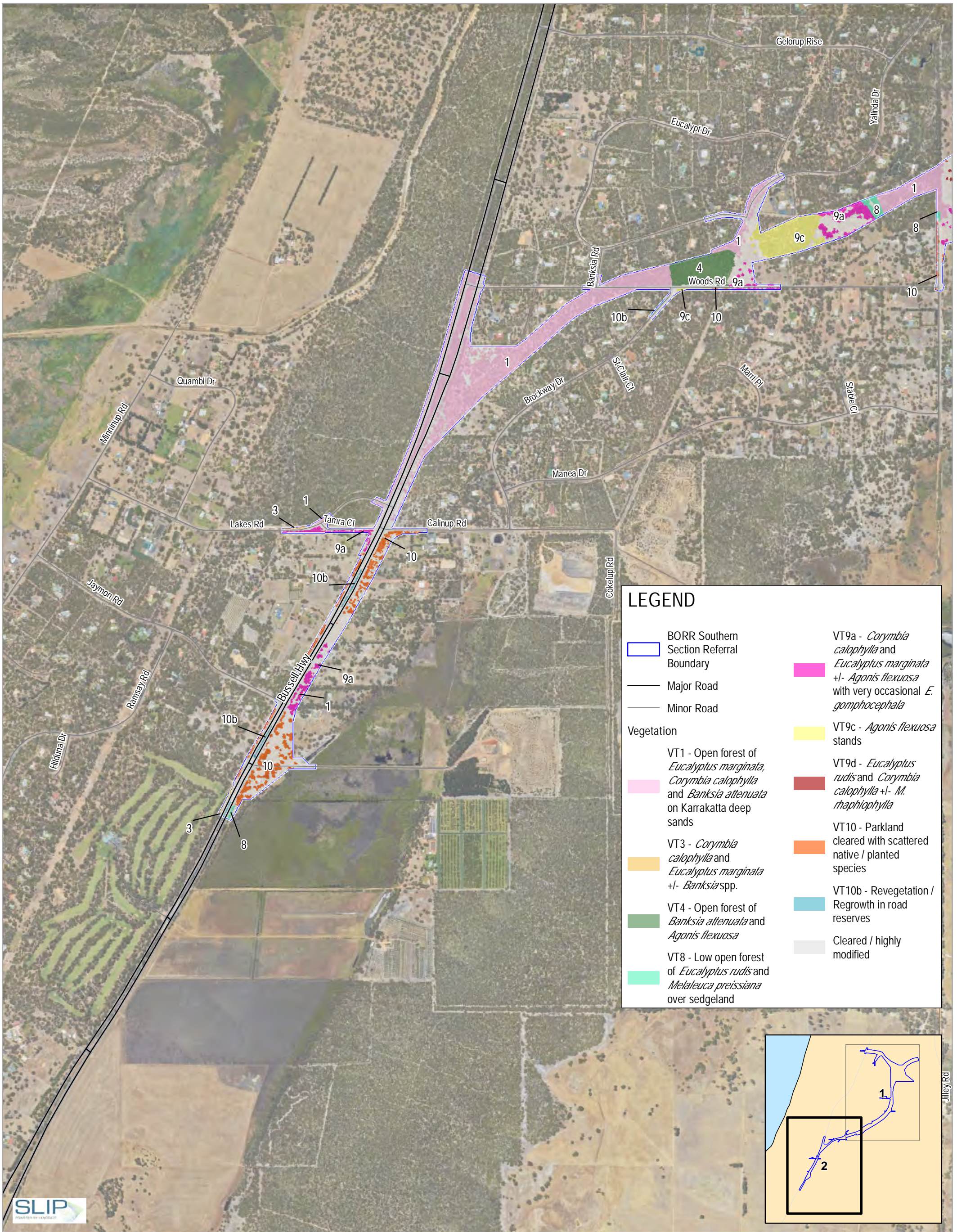
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Vegetation Types within the Proposal Area

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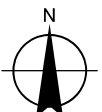
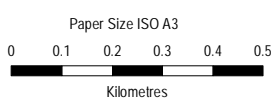


LEGEND

- BORR Southern Section Referral Boundary
- Major Road
- Minor Road

Vegetation

- VT1 - Open forest of *Eucalyptus marginata*, *Corymbia calophylla* and *Banksia attenuata* on Karrakatta deep sands
- VT3 - *Corymbia calophylla* and *Eucalyptus marginata* +/- *Banksia* spp.
- VT4 - Open forest of *Banksia attenuata* and *Agonis flexuosa*
- VT8 - Low open forest of *Eucalyptus rudis* and *Melaleuca preissiana* over sedgeland
- VT9a - *Corymbia calophylla* and *Eucalyptus marginata* +/- *Agonis flexuosa* with very occasional *E. gomphocephala*
- VT9c - *Agonis flexuosa* stands
- VT9d - *Eucalyptus rudis* and *Corymbia calophylla* +/- *M. raphiophylla*
- VT10 - Parkland cleared with scattered native / planted species
- VT10b - Revegetation / Regrowth in road reserves
- Cleared / highly modified



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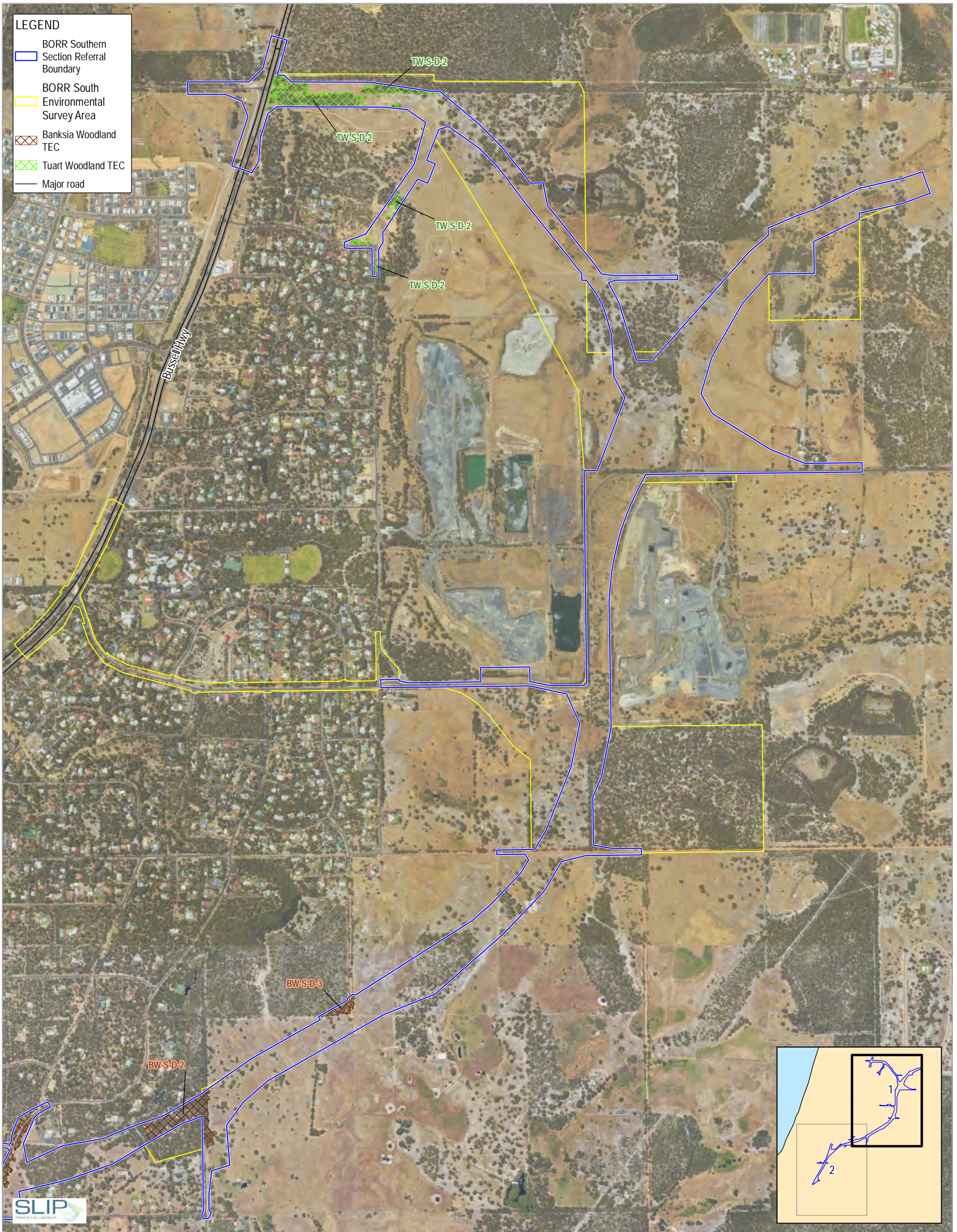
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Vegetation Types within
the Proposal Area

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FIGURE 5

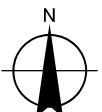
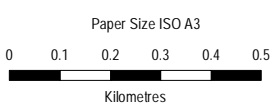
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LEGEND

- BORR Southern Section Referral Boundary
- BORR South Environmental Survey Area
- Banksia Woodland TEC
- Tuart Woodland TEC
- Major road



Map Projection: Transverse Mercator
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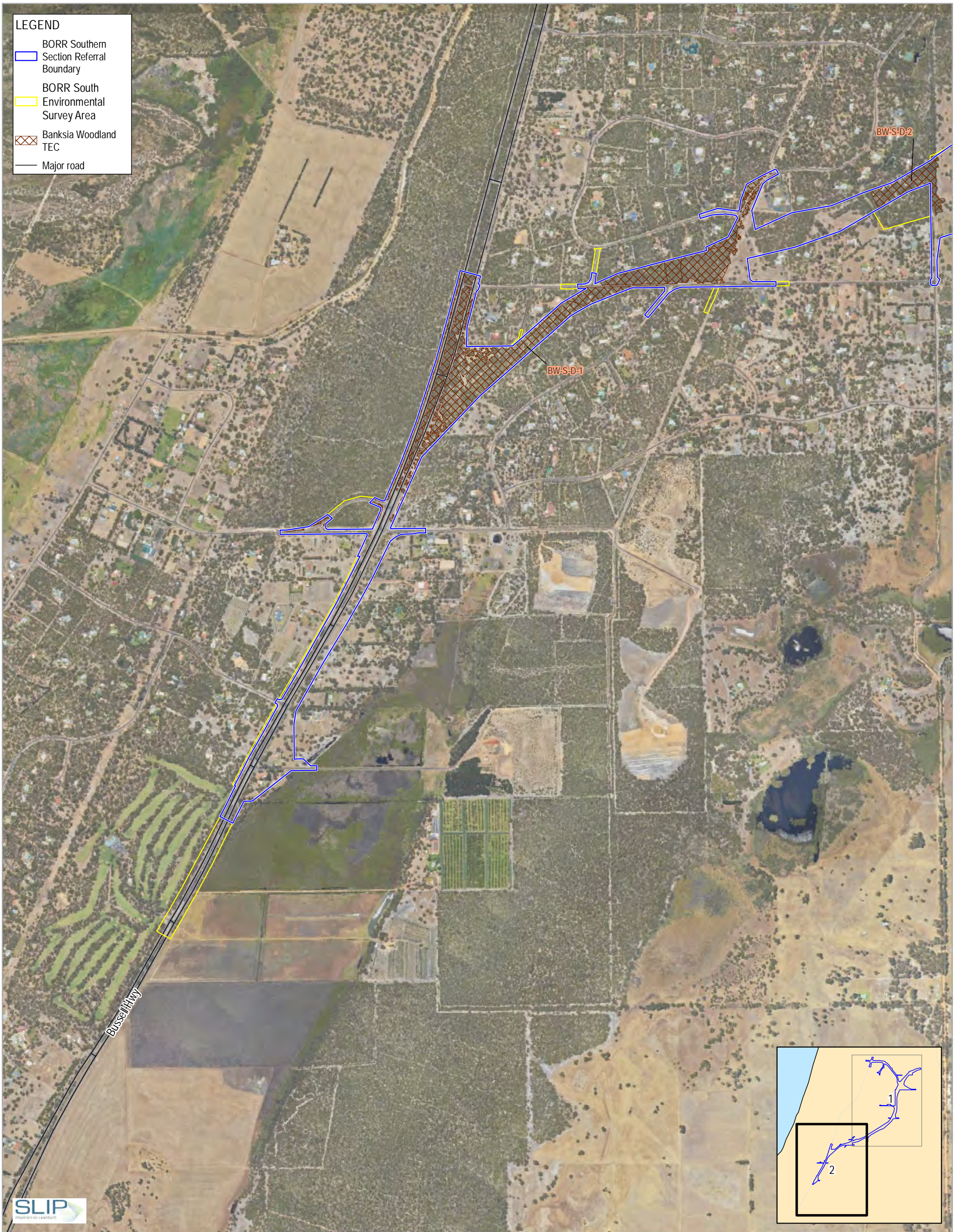
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TEC extent within
 the Proposal Area (direct impacts)

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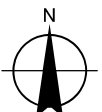
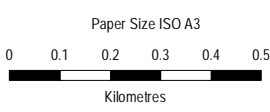
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LEGEND

- BORR Southern Section Referral Boundary
- BORR South Environmental Survey Area
- Banksia Woodland TEC
- Major road



Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
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SUNSHINE OUTER RING ROAD | FLAMINGO ADD DEVELOPMENT

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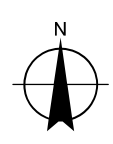
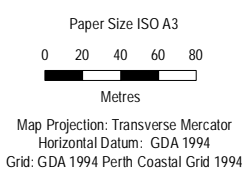
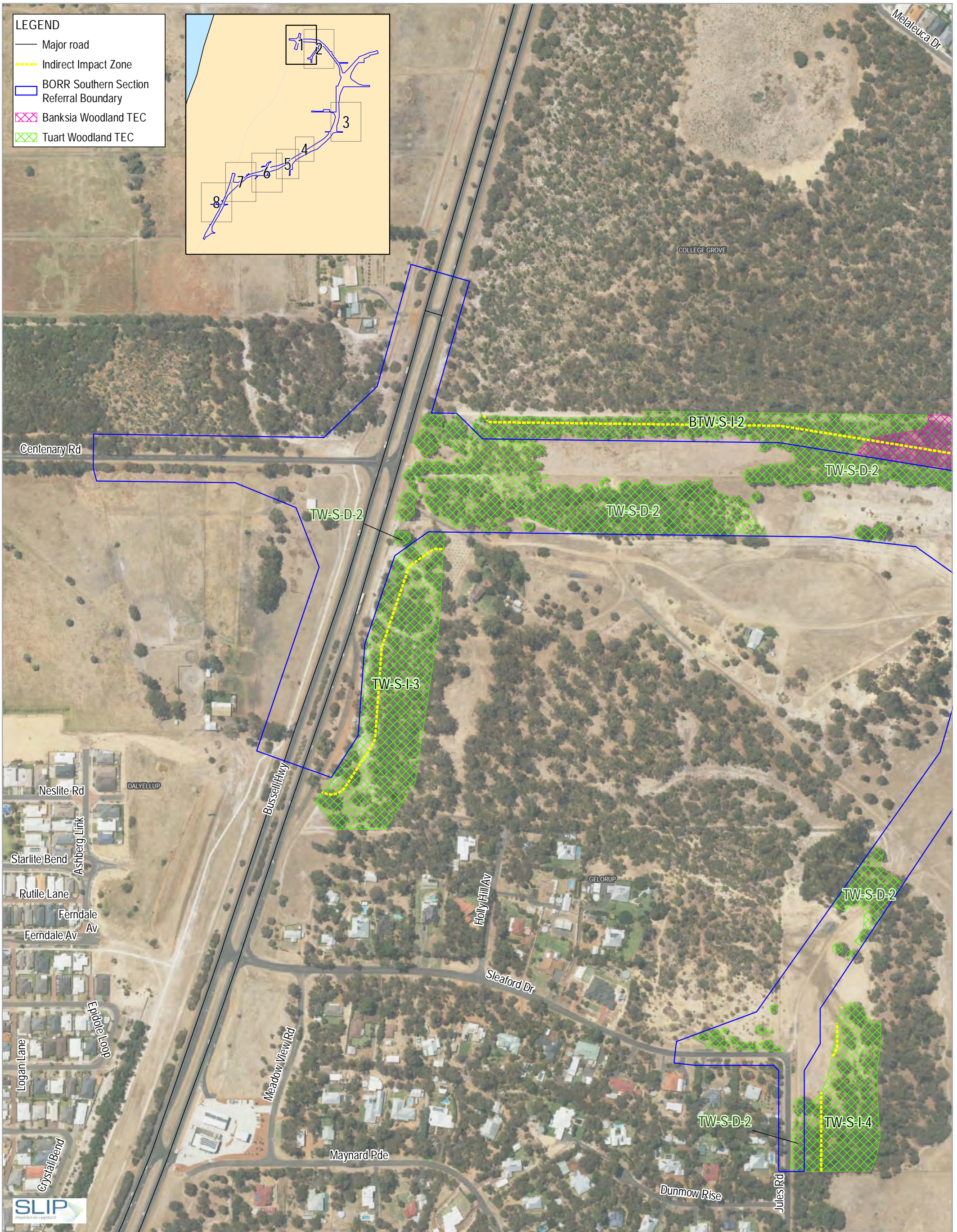
Project No. 61-37041
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TEC extent within
the Proposal Area (direct impacts)

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FIGURE 6

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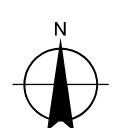
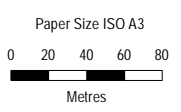
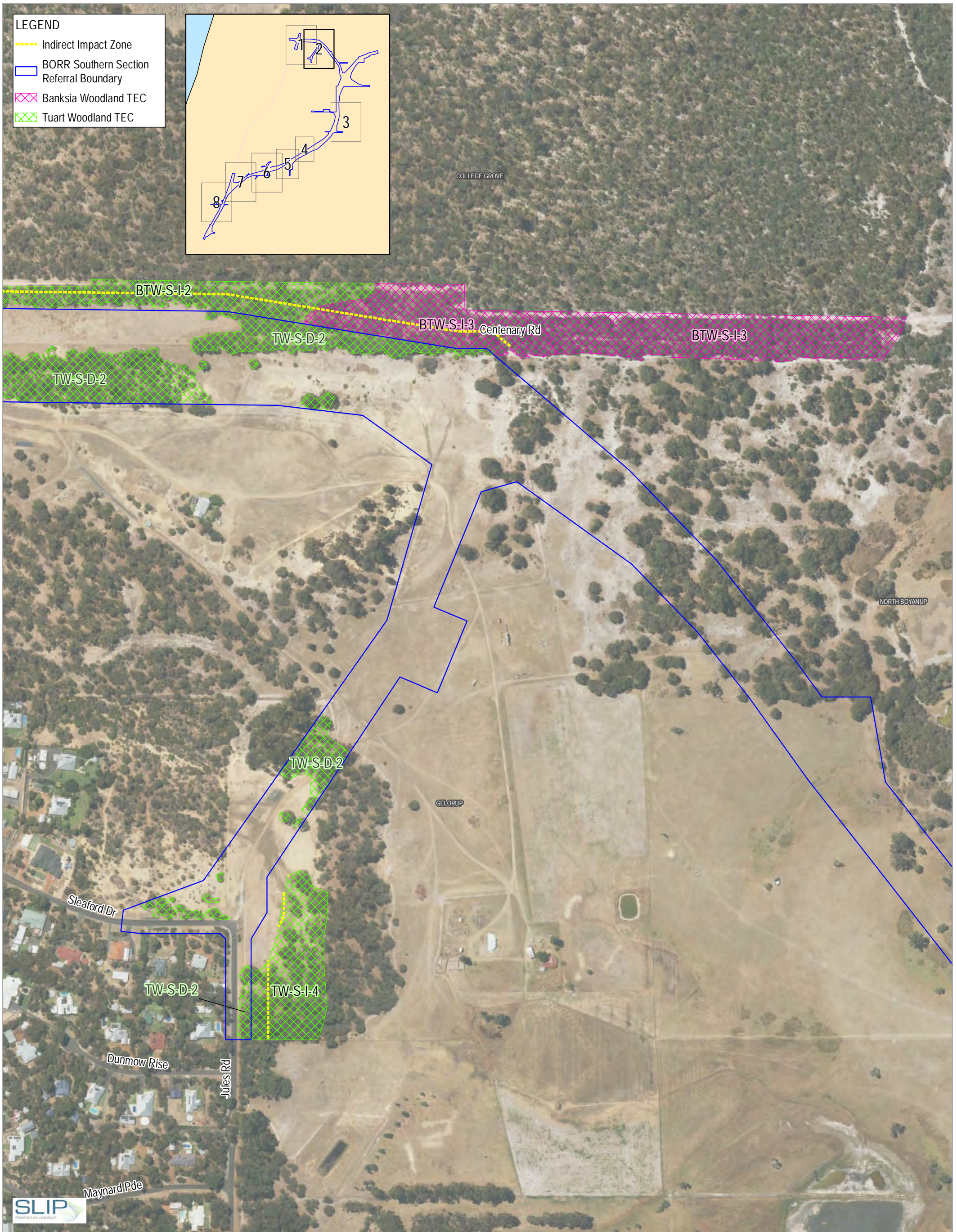


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Date 24/06/2021

TEC extent adjacent to the Proposal Area

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Bunbury Outer Ring Road Southern Section
EPBC ARI

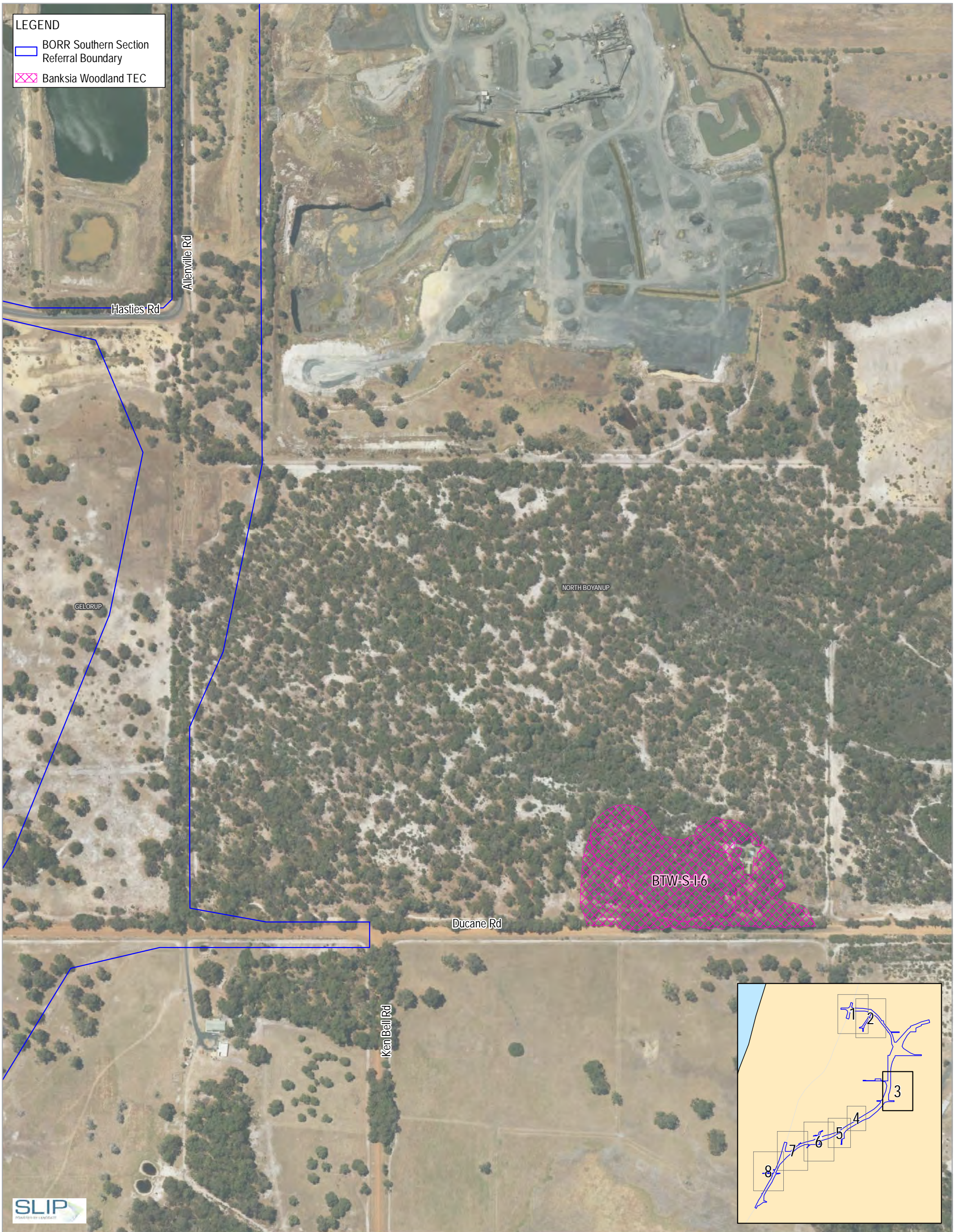
Project No. 61-37041
Revision No. 4
Date 24/06/2021

TEC extent adjacent to
the Proposal Area

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FIGURE 7

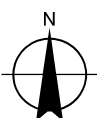
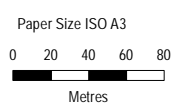
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LEGEND

- BORR Southern Section Referral Boundary
- Banksia Woodland TEC



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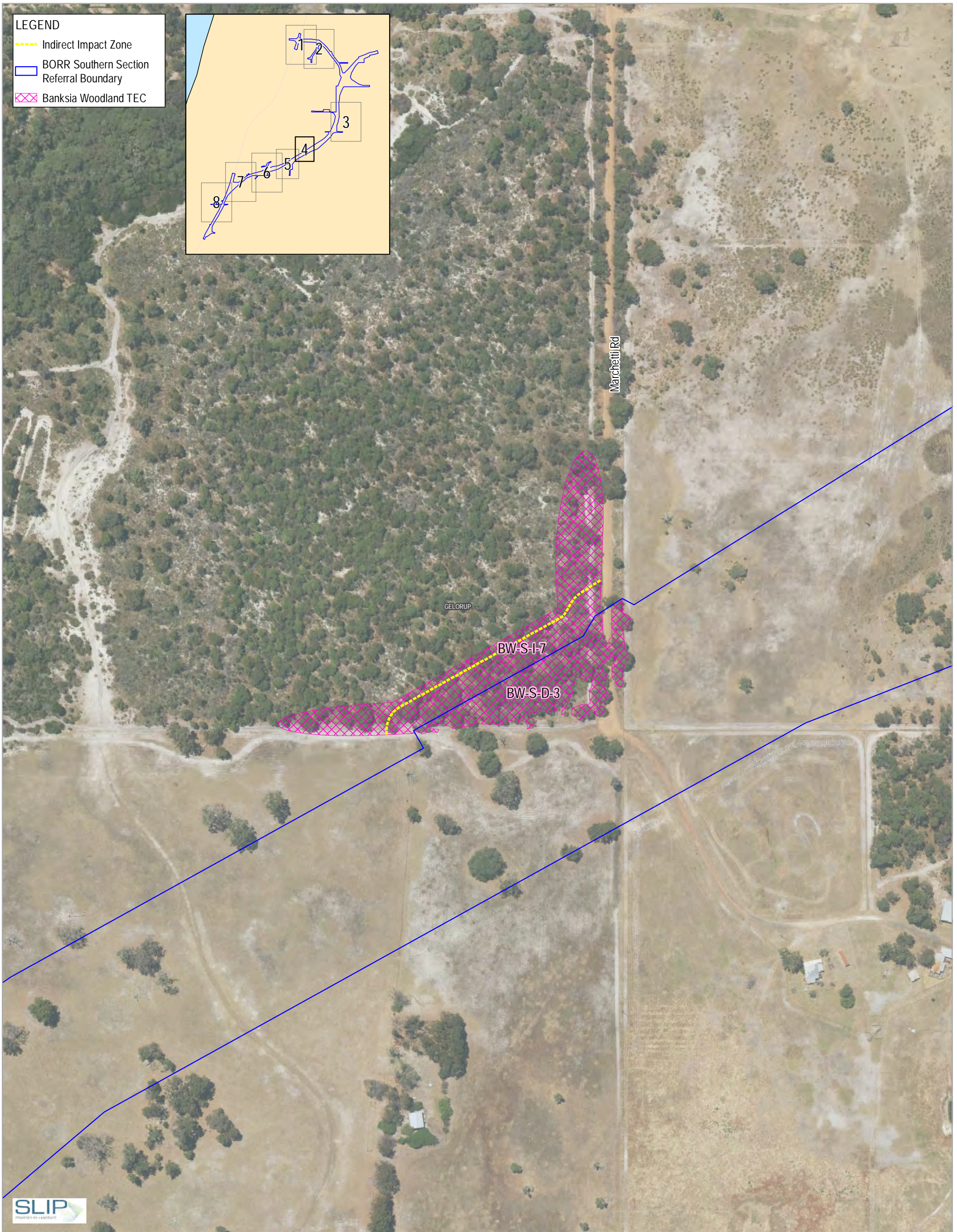


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TEC extent adjacent to
 the Proposal Area

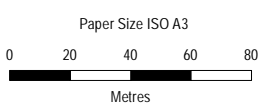
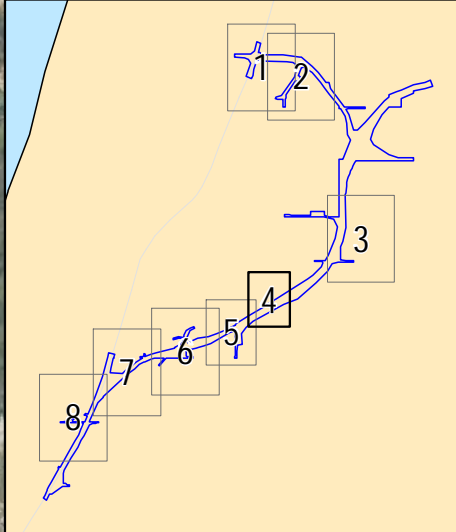
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 Date 24/06/2021

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FIGURE 7

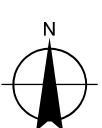


LEGEND

- - - Indirect Impact Zone
- BORR Southern Section Referral Boundary
- Banksia Woodland TEC



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Bunbury Outer Ring Road Southern Section
EPBC ARI

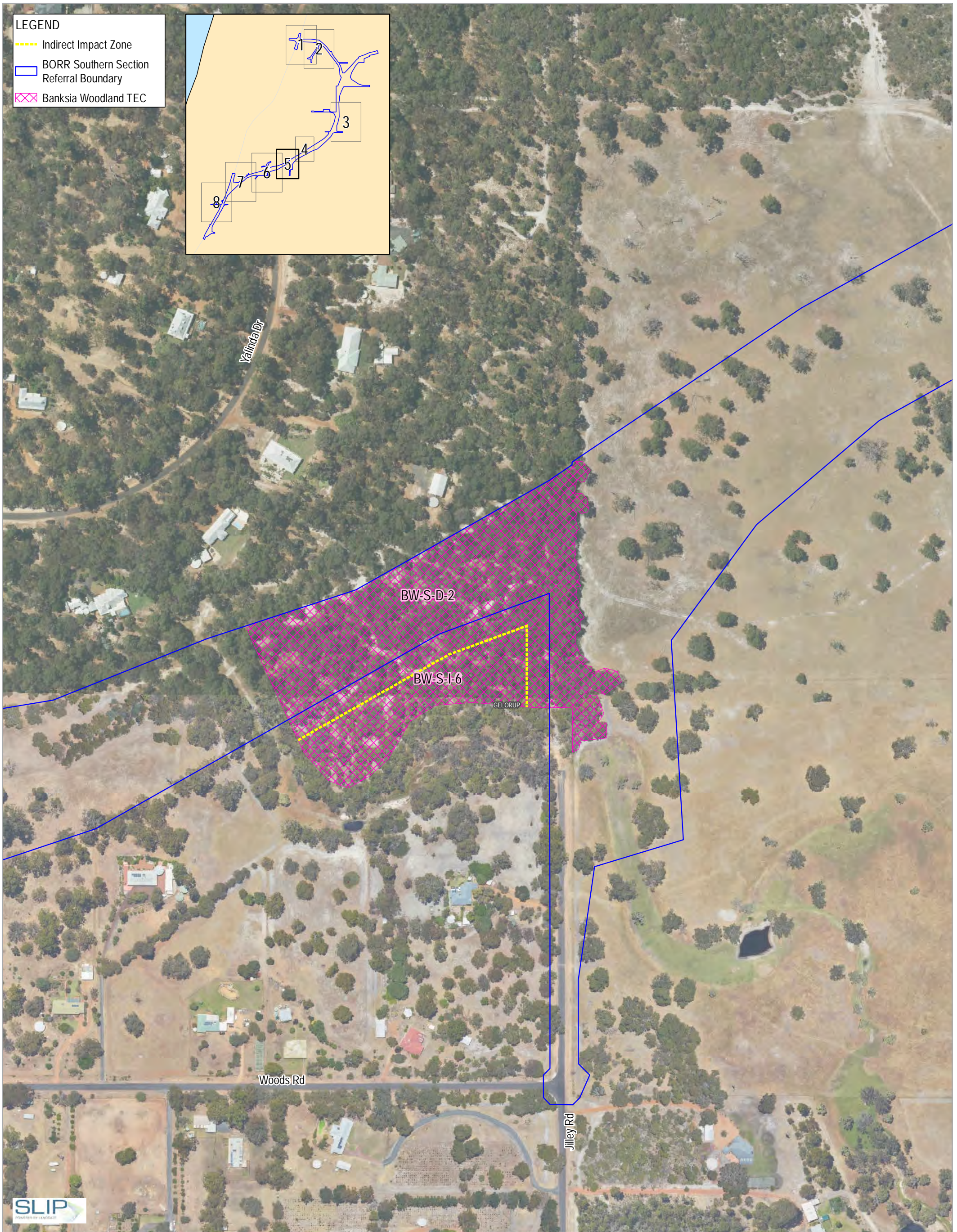
TEC extent adjacent to
the Proposal Area

Project No. 61-37041
Revision No. 4
Date 24/06/2021

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FIGURE 7

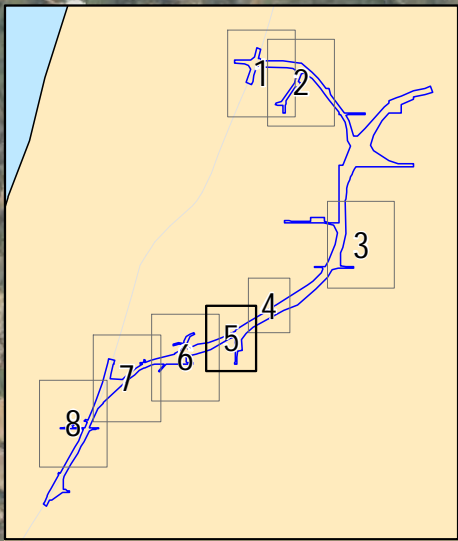
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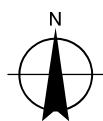


LEGEND

- Indirect Impact Zone
- BORR Southern Section Referral Boundary
- ⊠ Banksia Woodland TEC



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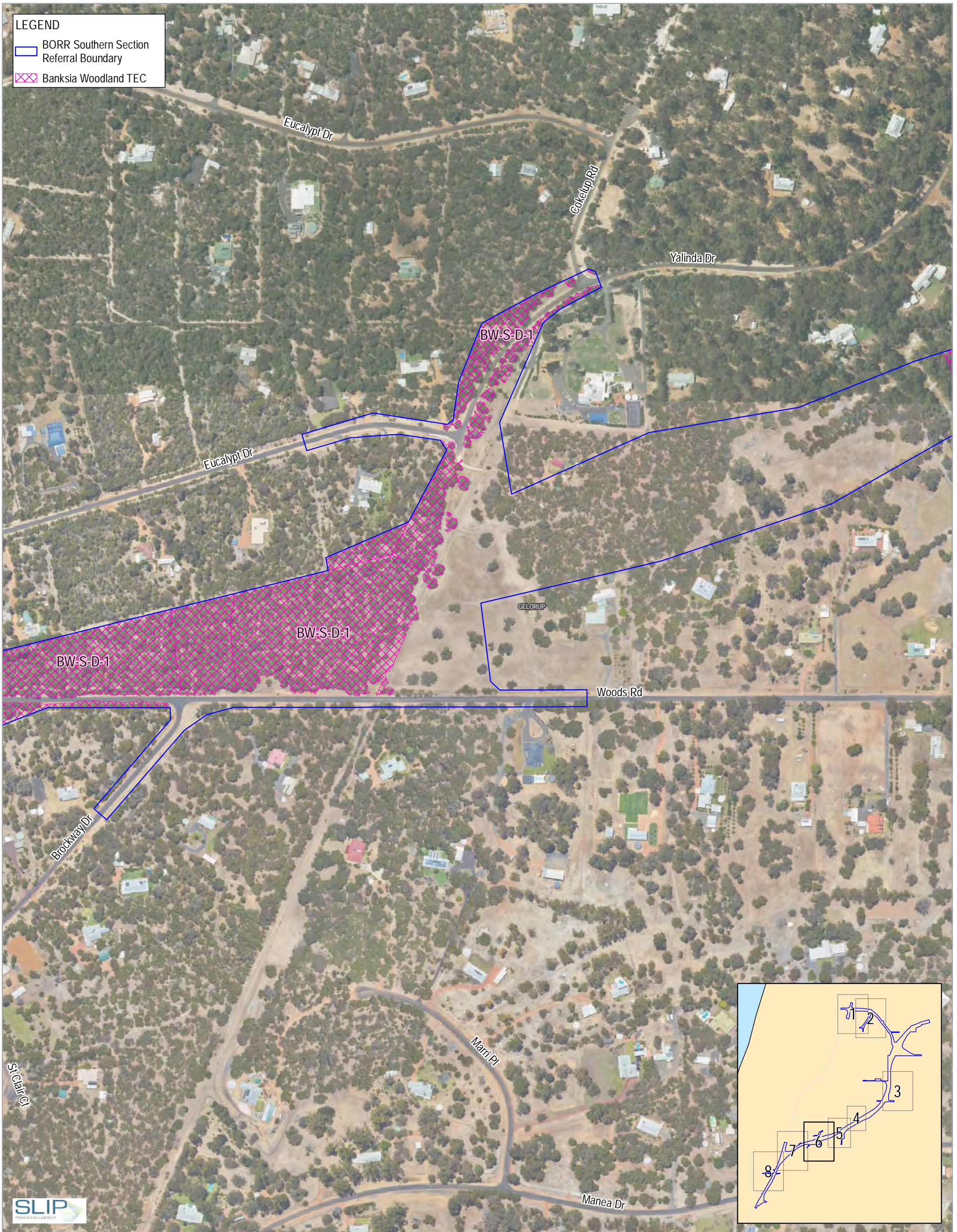


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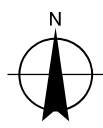
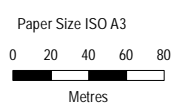
TEC extent adjacent to
 the Proposal Area

Page 5 of 8
FIGURE 7



LEGEND

- BORR Southern Section Referral Boundary
- Banksia Woodland TEC



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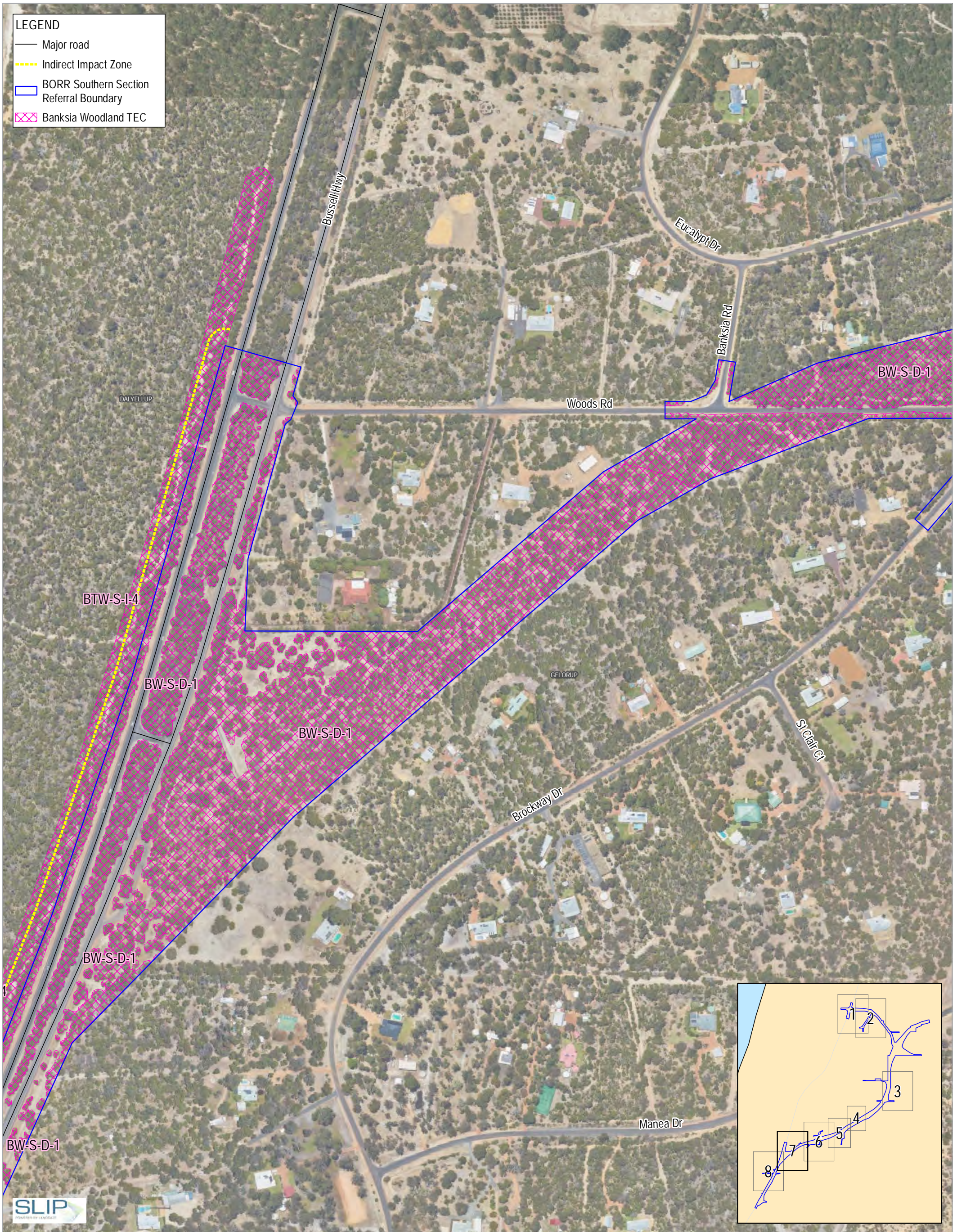


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TEC extent adjacent to
 the Proposal Area

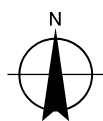
Page 6 of 8
FIGURE 7



LEGEND

- Major road
- - - Indirect Impact Zone
- ▭ BORR Southern Section Referral Boundary
- ▨ Banksia Woodland TEC

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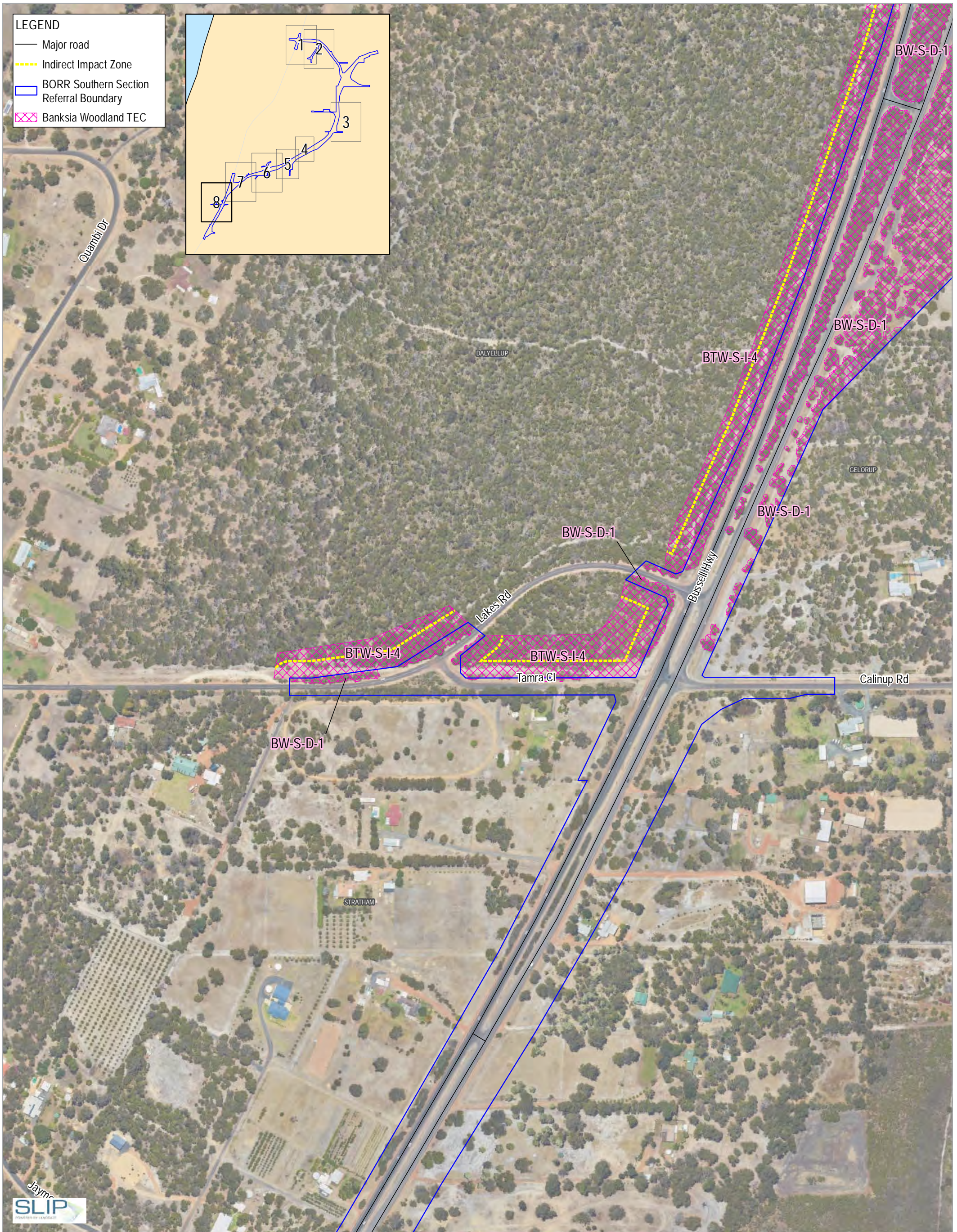


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 Bunbury Outer Ring Road Southern Section
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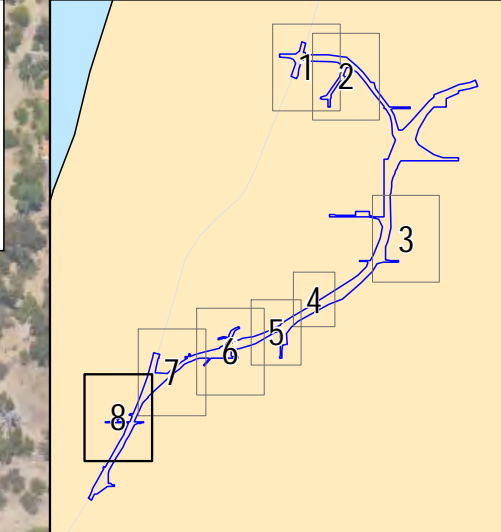
TEC extent adjacent to
 the Proposal Area

Page 7 of 8
FIGURE 7



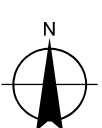
LEGEND

- Major road
- - - Indirect Impact Zone
- ▭ BORR Southern Section Referral Boundary
- ▨ Banksia Woodland TEC



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 Grid: GDA 1994 Perth Coastal Grid 1994



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mainroads
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 SUNSHINE OUTER RING ROAD | FLAMBERG AND DEVELOPMENT













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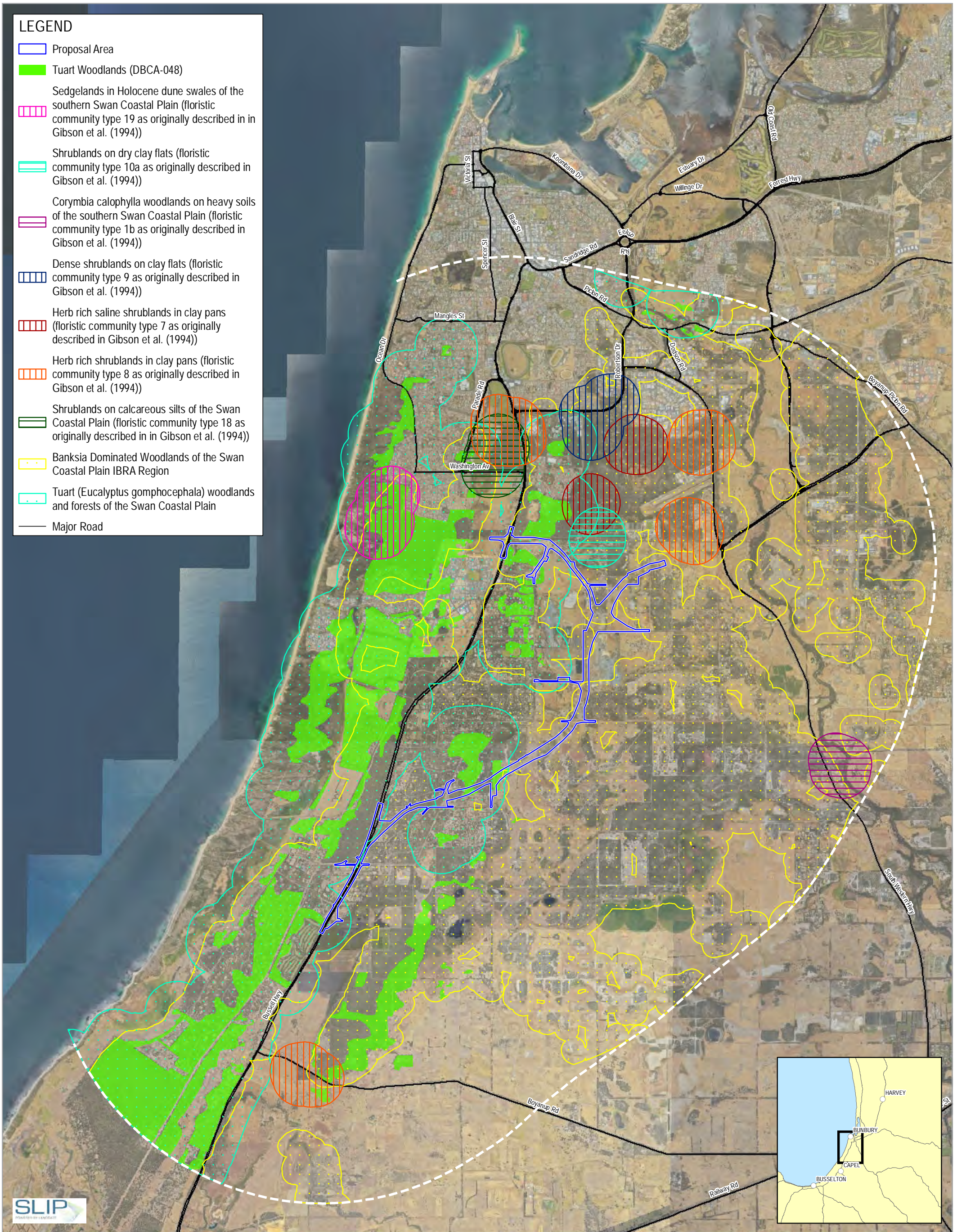
TEC extent adjacent to the Proposal Area

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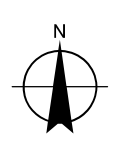
Page 8 of 8
FIGURE 7

LEGEND

-  Proposal Area
-  Tuart Woodlands (DBCA-048)
-  Sedgeland in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in Gibson et al. (1994))
-  Shrublands on dry clay flats (floristic community type 10a as originally described in Gibson et al. (1994))
-  *Corymbia calophylla* woodlands on heavy soils of the southern Swan Coastal Plain (floristic community type 1b as originally described in Gibson et al. (1994))
-  Dense shrublands on clay flats (floristic community type 9 as originally described in Gibson et al. (1994))
-  Herb rich saline shrublands in clay pans (floristic community type 7 as originally described in Gibson et al. (1994))
-  Herb rich shrublands in clay pans (floristic community type 8 as originally described in Gibson et al. (1994))
-  Shrublands on calcareous silts of the Swan Coastal Plain (floristic community type 18 as originally described in Gibson et al. (1994))
-  Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region
-  Tuart (*Eucalyptus gomphocephala*) woodlands and forests of the Swan Coastal Plain
-  Major Road



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

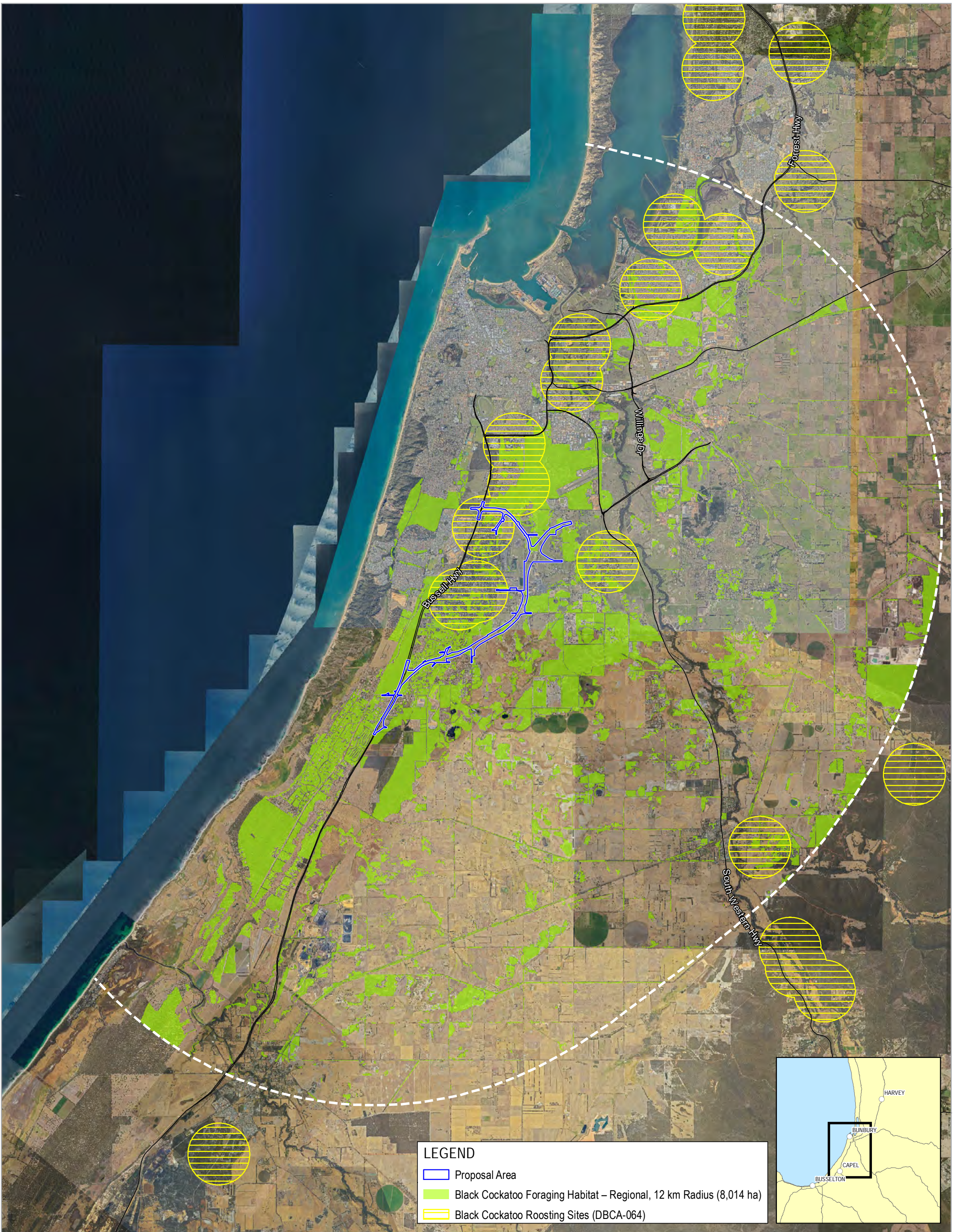


Main Roads Western Australia
 Bunbury Outer Ring Road Southern Section

TEC extent within 5 km
 of the Proposal Area

Project No. 61-37041
 Revision No. 0
 Date 9/07/2020

FIGURE 8



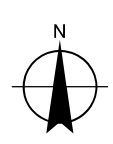
LEGEND

- Proposal Area
- Black Cockatoo Foraging Habitat – Regional, 12 km Radius (8,014 ha)
- Black Cockatoo Roosting Sites (DBCA-064)



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 Kilometres

Map Projection: Transverse Mercator
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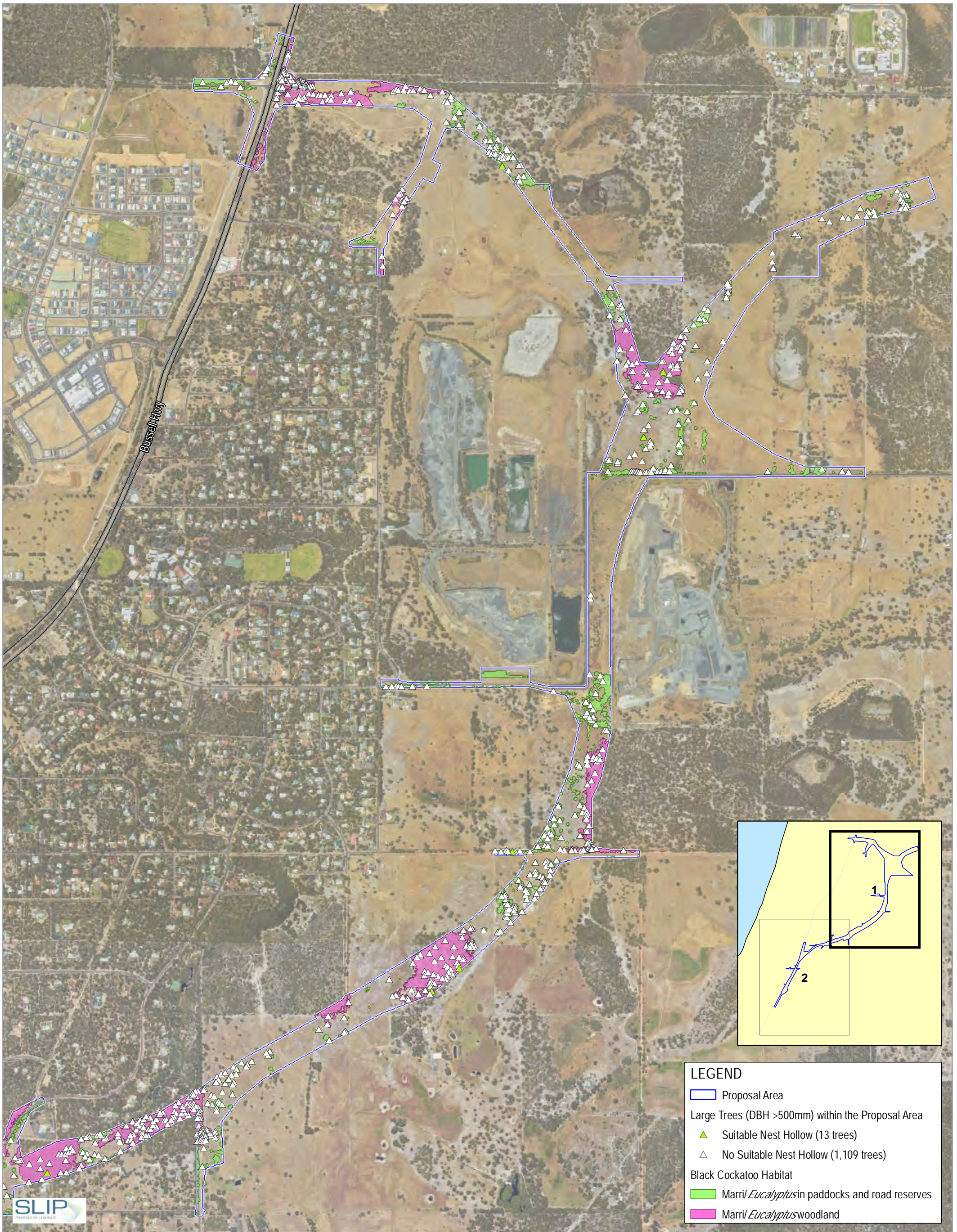


Main Roads Western Australia
 Bunbury Outer Ring Road Southern Section

**Black Cockatoo Foraging Habitat
 and Roosting Sites within 12 km
 of the Proposal Area**

Project No. 61-37041
 Revision No. 3
 Date 11/01/2021

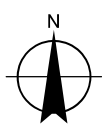
FIGURE 9



LEGEND

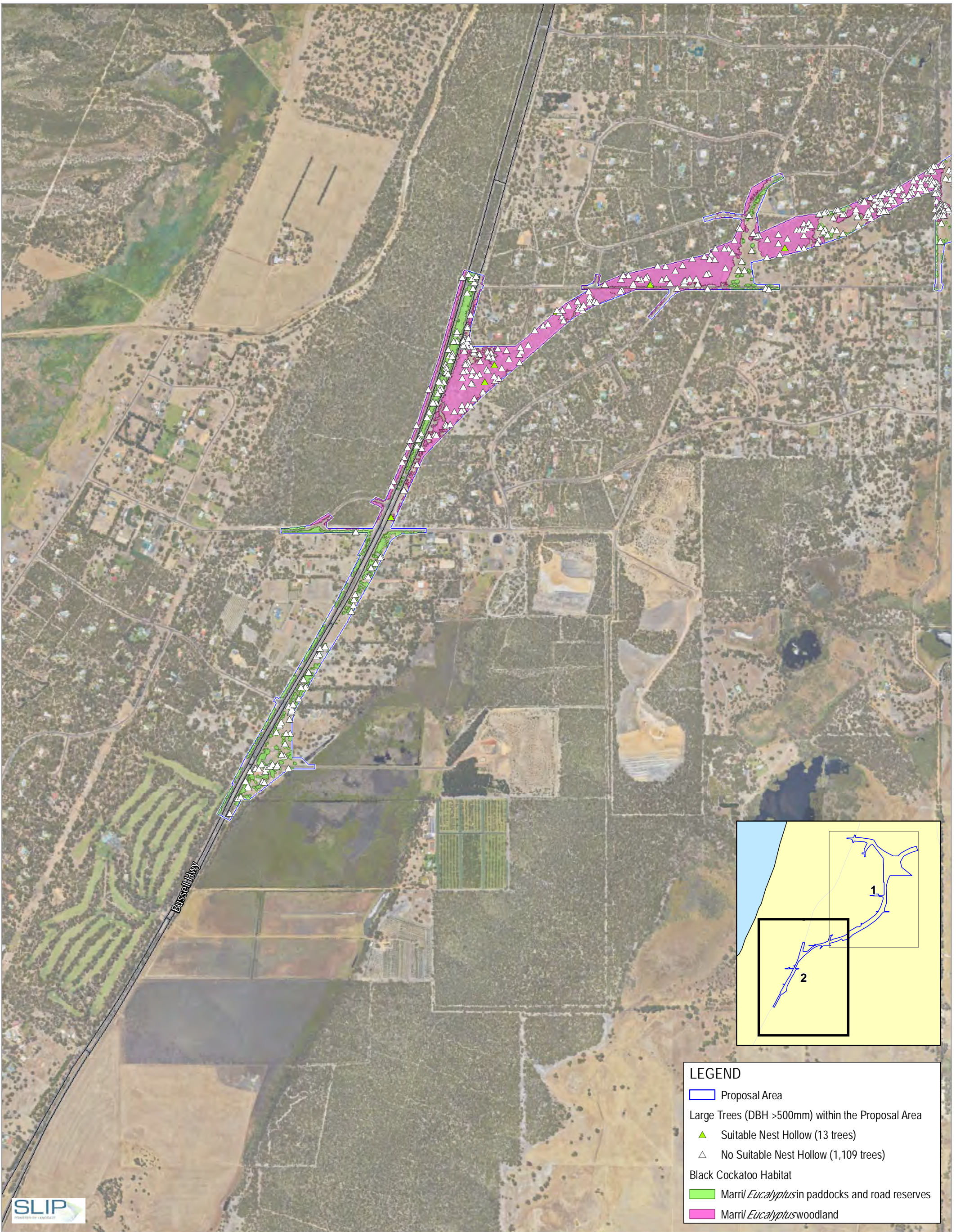
- Proposal Area
- Large Trees (DBH >500mm) within the Proposal Area
 - ▲ Suitable Nest Hollow (13 trees)
 - △ No Suitable Nest Hollow (1,109 trees)
- Black Cockatoo Habitat
 - Murril *Eucalyptus* in paddocks and road reserves
 - Murril *Eucalyptus* woodland

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



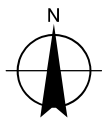
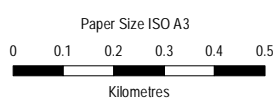
Main Roads Western Australia
 Bunbury Outer Ring Road Southern Section
 EPBC ARI
 Distribution of Black Cockatoo habitat within
 the Proposal Area with suitable DBH trees
 and nesting hollows shown

Project No. 61-37041
 Revision No. 1
 Date 30/07/2020



LEGEND

- Proposal Area
- Large Trees (DBH >500mm) within the Proposal Area
 - ▲ Suitable Nest Hollow (13 trees)
 - △ No Suitable Nest Hollow (1,109 trees)
- Black Cockatoo Habitat
 - Marril *Eucalyptus* in paddocks and road reserves
 - Marril *Eucalyptus* woodland



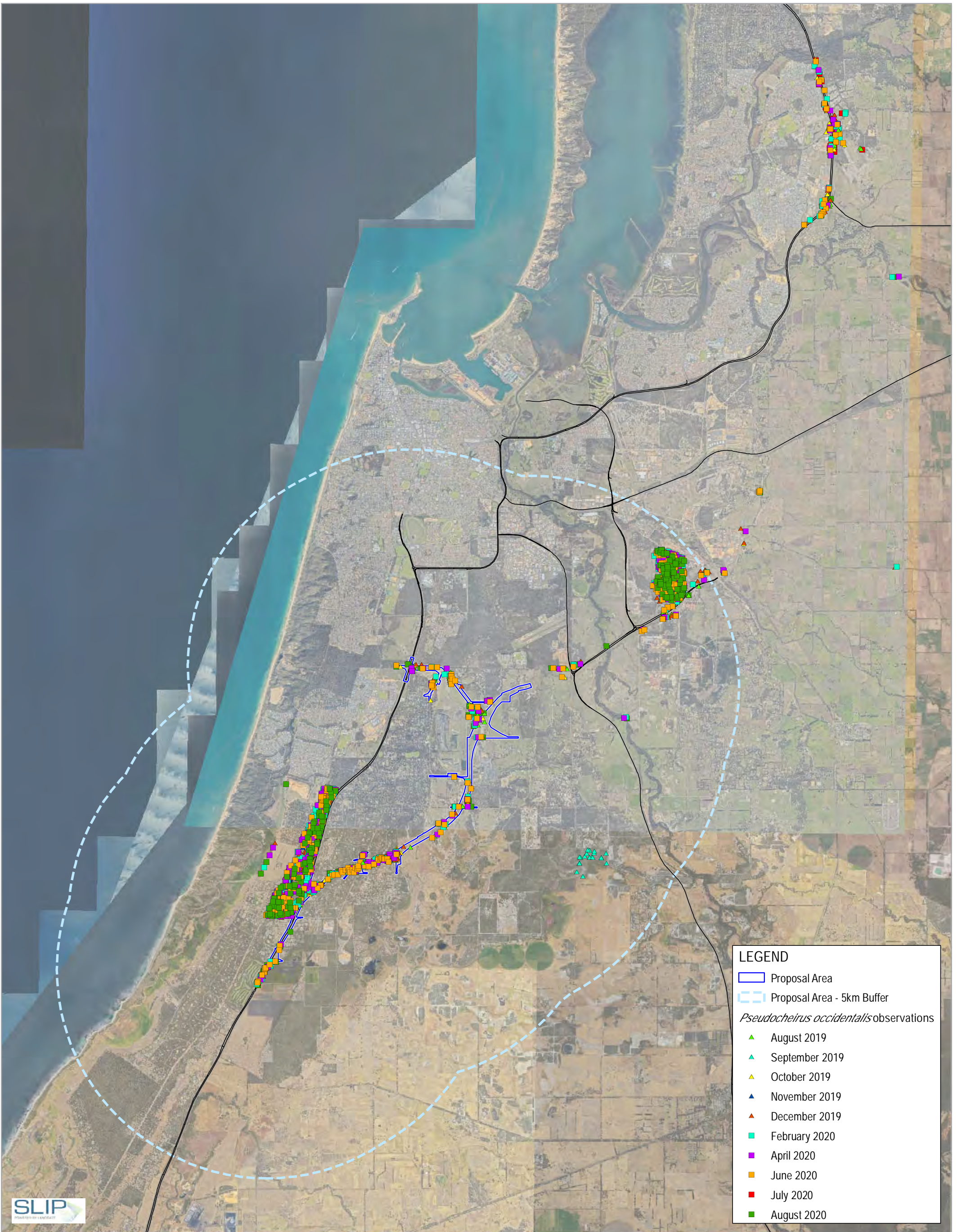
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 Bunbury Outer Ring Road Southern Section
 EPBC ARI

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

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LEGEND

- Proposal Area
- Proposal Area - 5km Buffer

Pseudocheirus occidentalis observations

- ▲ August 2019
- ▲ September 2019
- ▲ October 2019
- ▲ November 2019
- ▲ December 2019
- February 2020
- April 2020
- June 2020
- July 2020
- August 2020



0 1 2 3 4
Kilometres

Map Projection: Transverse Mercator
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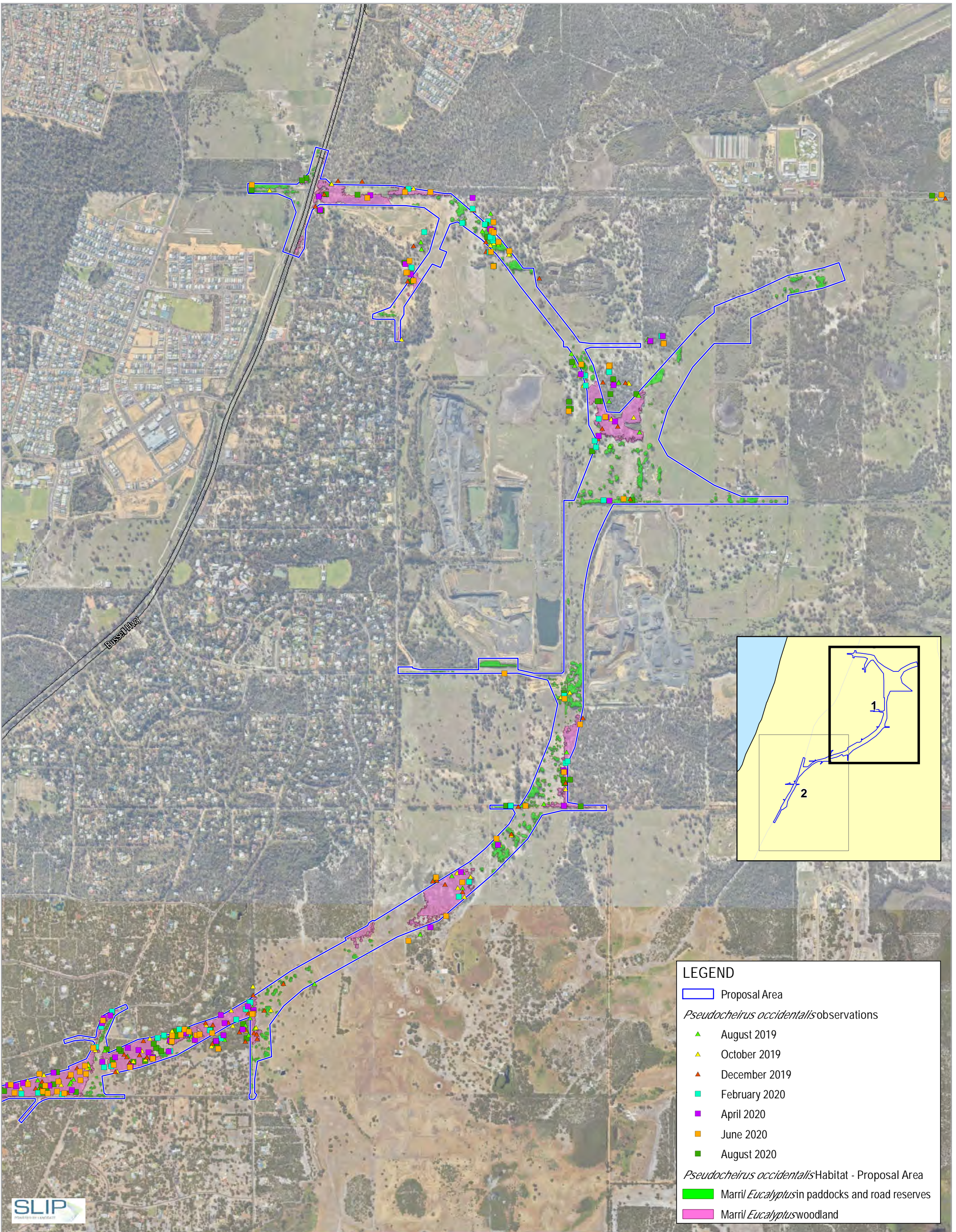
SUNBURY OUTER RING ROAD | FLAMINGO JARD DEVELOPMENT

Main Roads Western Australia
Bunbury Outer Ring Road Southern Section
EPBC ARI

Distribution of Western Ringtail Possums
within 5 km of the Proposal Area

Project No. 61-37041
Revision No. 1
Date 6/10/2020

[Overview](#)
FIGURE 11

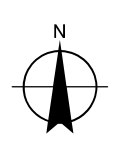


LEGEND

- Proposal Area
- Pseudocheirus occidentalis* observations
 - ▲ August 2019
 - ▲ October 2019
 - ▲ December 2019
 - ▲ February 2020
 - ▲ April 2020
 - ▲ June 2020
 - ▲ August 2020
- Pseudocheirus occidentalis* Habitat - Proposal Area
 - Marril *Eucalyptus* in paddocks and road reserves
 - Marril *Eucalyptus* woodland



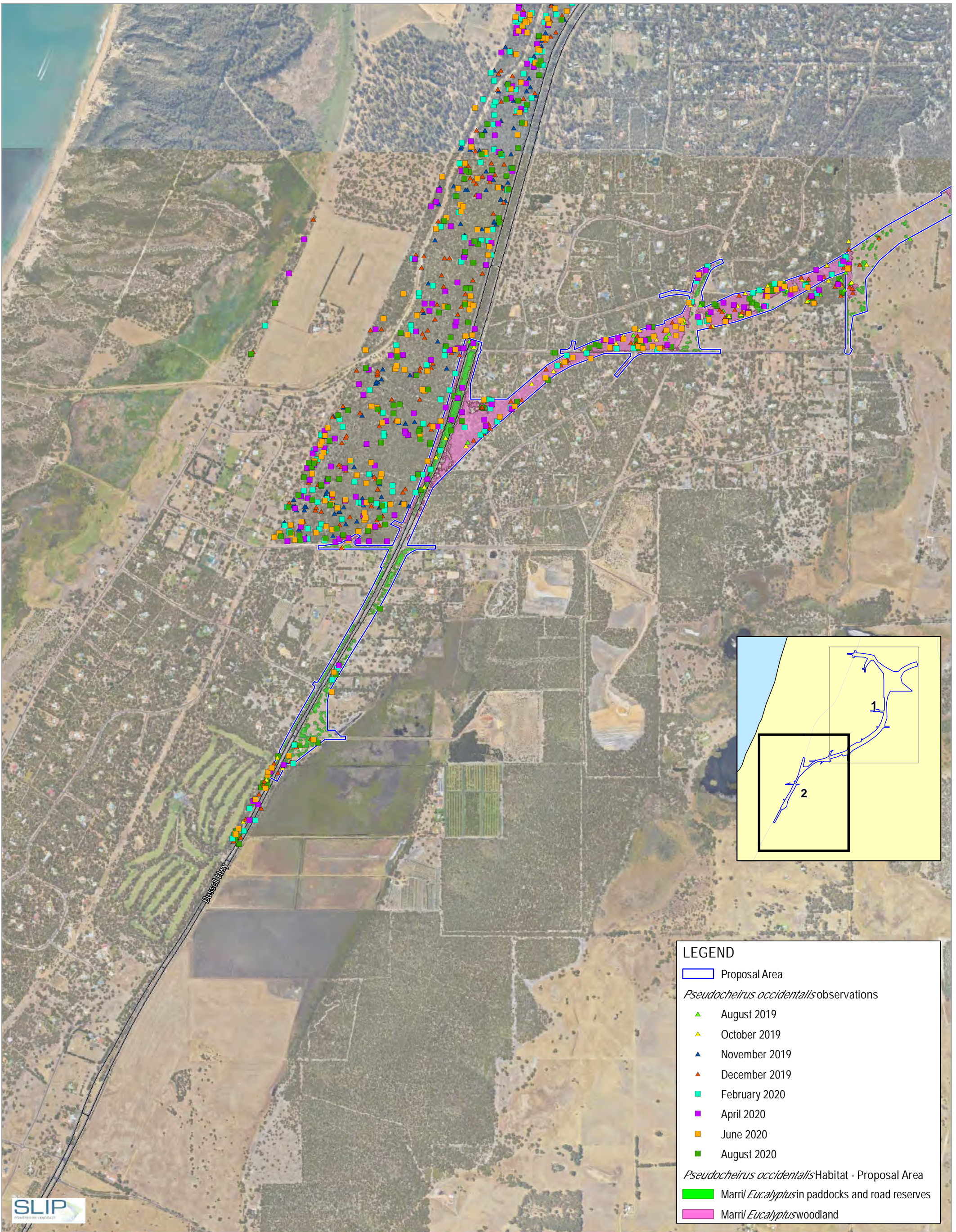
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Main Roads Western Australia
 Bunbury Outer Ring Road Southern Section
 EPBC ARI
 Distribution of Western Ringtail Possums
 with habitat types and extent within
 the Proposal Area

Project No. 61-37041
 Revision No. 1
 Date 6/10/2020

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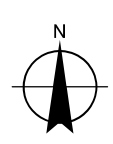


LEGEND

- Proposal Area
- Pseudocheirus occidentalis* observations
 - ▲ August 2019
 - ▲ October 2019
 - ▲ November 2019
 - ▲ December 2019
 - February 2020
 - April 2020
 - June 2020
 - August 2020
- Pseudocheirus occidentalis* Habitat - Proposal Area
 - Marril *Eucalyptus* in paddocks and road reserves
 - Marril *Eucalyptus* woodland



Paper Size ISO A3
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 Kilometres
 Map Projection: Transverse Mercator
 Horizontal Datum: GDA 1994
 Grid: GDA 1994 Perth Coastal Grid 1994



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

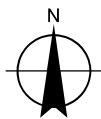
Project No. 61-37041
 Revision No. 1
 Date 6/10/2020

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- LEGEND**
- BORR South design
 - Dual Use Culvert
 - Fauna Rope Bridge
 - Possum Exclusion Fencing (Permanent)
 - BORR Southern Section Referral Boundary



Paper Size ISO A3
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 Map Projection: Transverse Mercator
 Horizontal Datum: GDA 1994
 Grid: GDA 1994 Perth Coastal Grid 1994



Main Roads Western Australia
 Bunbury Outer Ring Road Southern Section
 EPBC ARI

Project No. 61-37041
 Revision No. 1
 Date 22 Jun 2021

**Fauna Crossing Provisions and
 Exclusion Fencing Concept Plan**

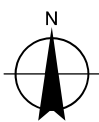
FIGURE 12

LEGEND

- BORR South design
- Dual Use Culvert
- Possum Exclusion Fencing (Permanent)
- BORR Southern Section Referral Boundary



Paper Size ISO A3
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 Map Projection: Transverse Mercator
 Horizontal Datum: GDA 1994
 Grid: GDA 1994 Perth Coastal Grid 1994



Main Roads Western Australia
 Bunbury Outer Ring Road Southern Section
 EPBC ARI

Project No. 61-37041
 Revision No. 1
 Date 22 Jun 2021

Fauna Crossing Provisions and
 Exclusion Fencing Concept Plan

FIGURE 12

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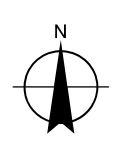
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- LEGEND**
- BORR South design
 - Fauna Underpass (Box)
 - Possum Exclusion Fencing (Permanent)
 - Possum Exclusion Fencing (Temporary)
 - BORR Southern Section Referral Boundary



Paper Size ISO A3
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Main Roads Western Australia
 Bunbury Outer Ring Road Southern Section
 EPBC ARI

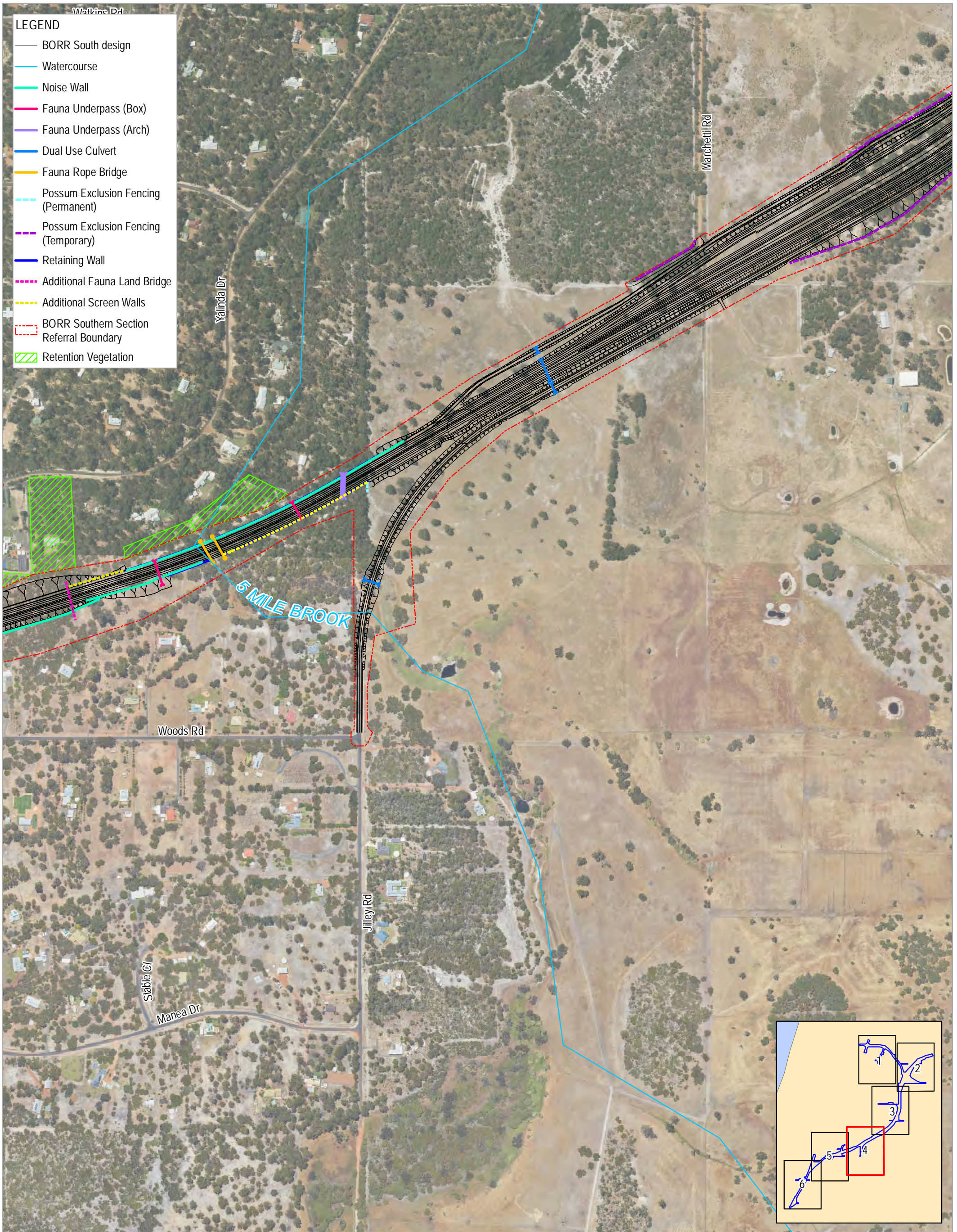
Project No. 61-37041
 Revision No. 1
 Date 22 Jun 2021

**Fauna Crossing Provisions and
 Exclusion Fencing Concept Plan**

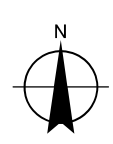
FIGURE 12

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Data source: BORR team: North design - 201908, North referral boundary - 20191016, Possum Exclusion Fencing Structure - 20200420; Biota: Western Ringtail Possum Records - 20200327; Possum habitat - 201910; Landgate: Imagery - WA Now accessed 20210622. Created by: slt



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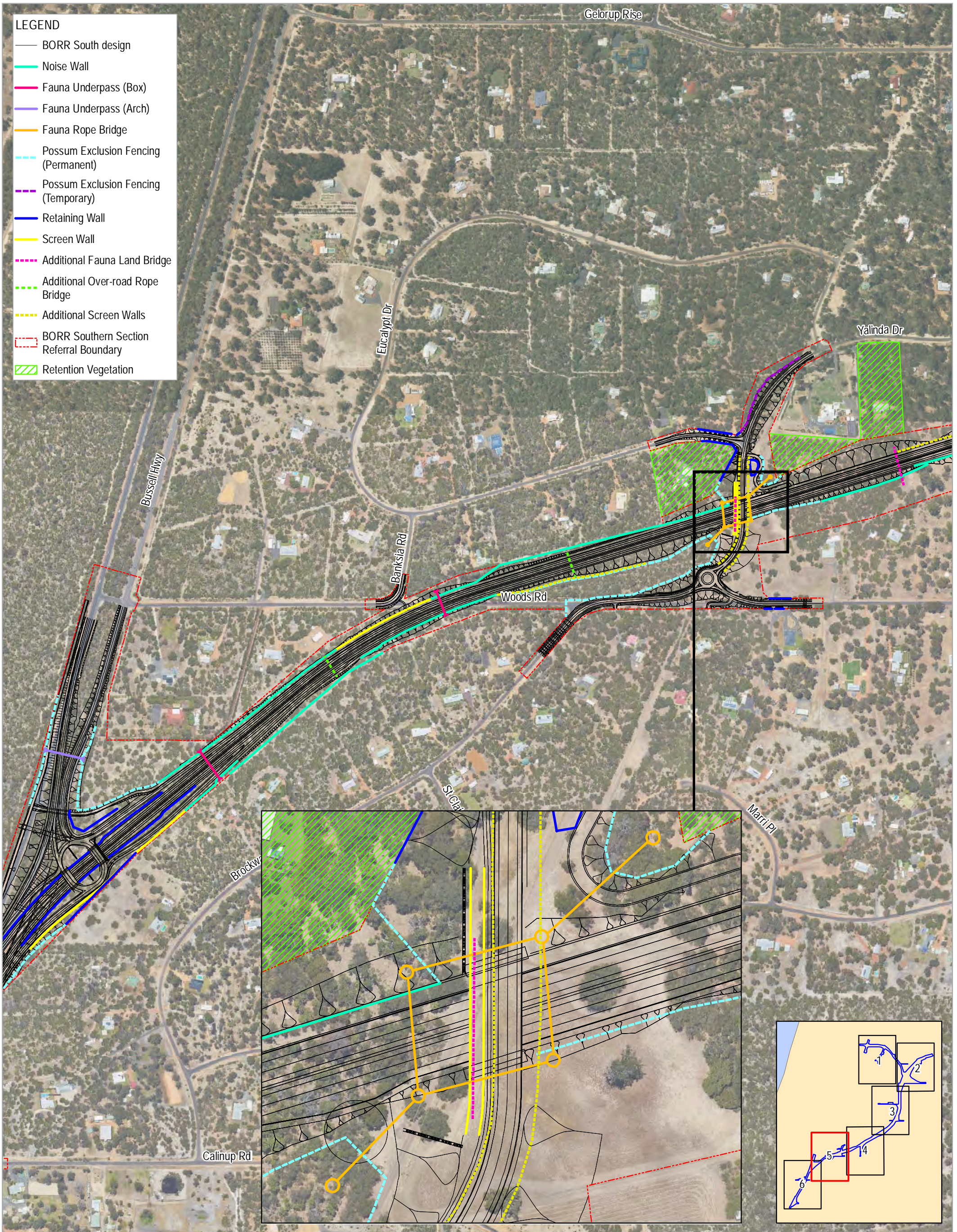
Main Roads Western Australia
 Bunbury Outer Ring Road Southern Section
 EPBC ARI
 Fauna Crossing Provisions and
 Exclusion Fencing Concept Plan

Project No. 61-37041
 Revision No. 1
 Date 22 Jun 2021

Page 4 of 6
 FIGURE 12

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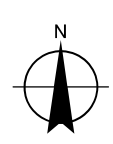


LEGEND

- BORR South design
- Noise Wall
- Fauna Underpass (Box)
- Fauna Underpass (Arch)
- Fauna Rope Bridge
- Possum Exclusion Fencing (Permanent)
- Possum Exclusion Fencing (Temporary)
- Retaining Wall
- Screen Wall
- Additional Fauna Land Bridge
- Additional Over-road Rope Bridge
- Additional Screen Walls
- BORR Southern Section Referral Boundary
- Retention Vegetation



Paper Size ISO A3
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 Bunbury Outer Ring Road Southern Section
 EPBC ARI

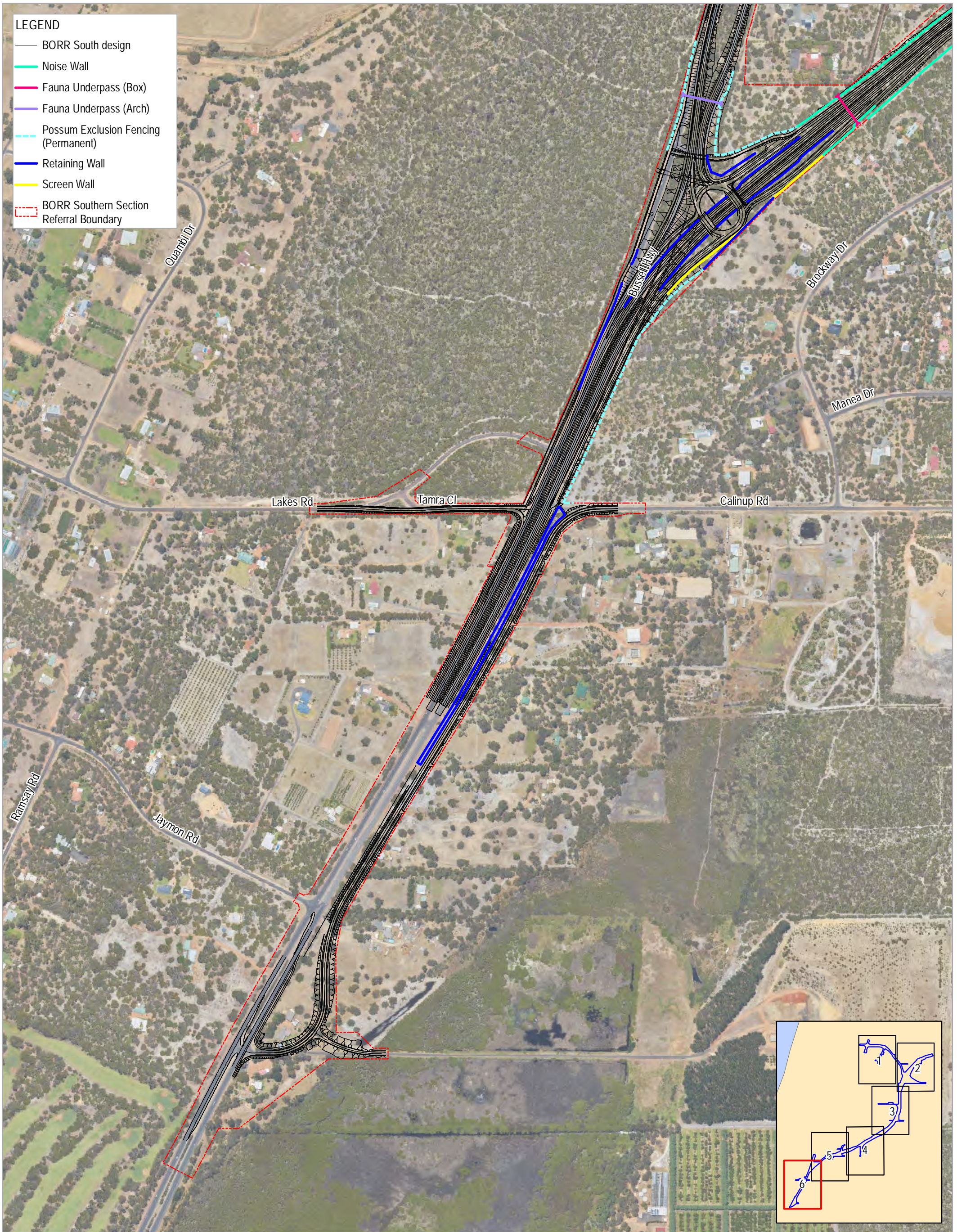
Project No. 61-37041
 Revision No. 1
 Date 22 Jun 2021

Fauna Crossing Provisions and Exclusion Fencing Concept Plan

FIGURE 12

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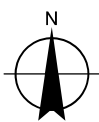


LEGEND

- BORR South design
- Noise Wall
- Fauna Underpass (Box)
- Fauna Underpass (Arch)
- Possum Exclusion Fencing (Permanent)
- Retaining Wall
- Screen Wall
- BORR Southern Section Referral Boundary



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Main Roads Western Australia
 Bunbury Outer Ring Road Southern Section
 EPBC ARI

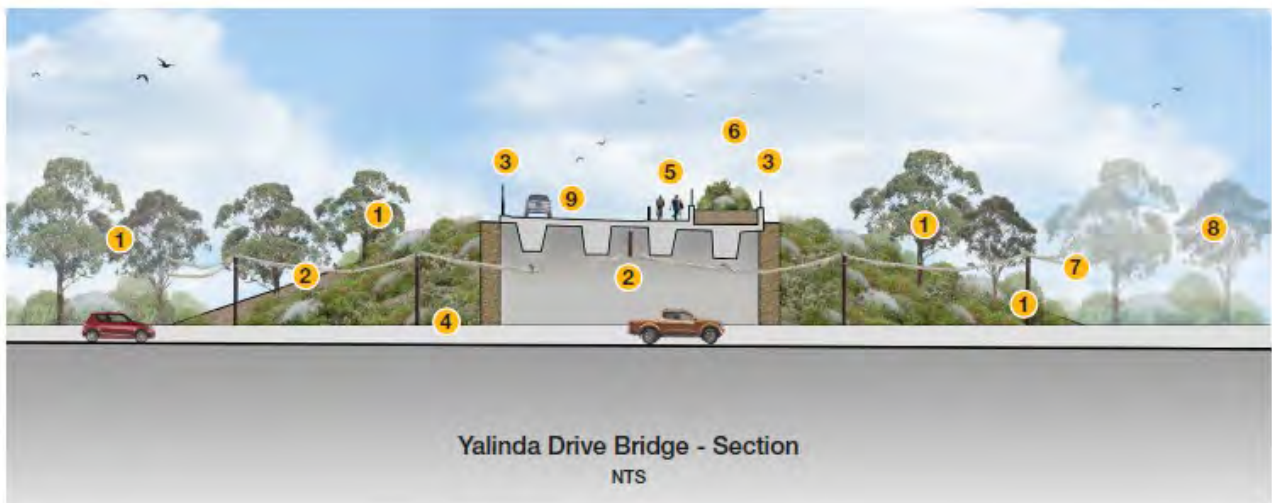
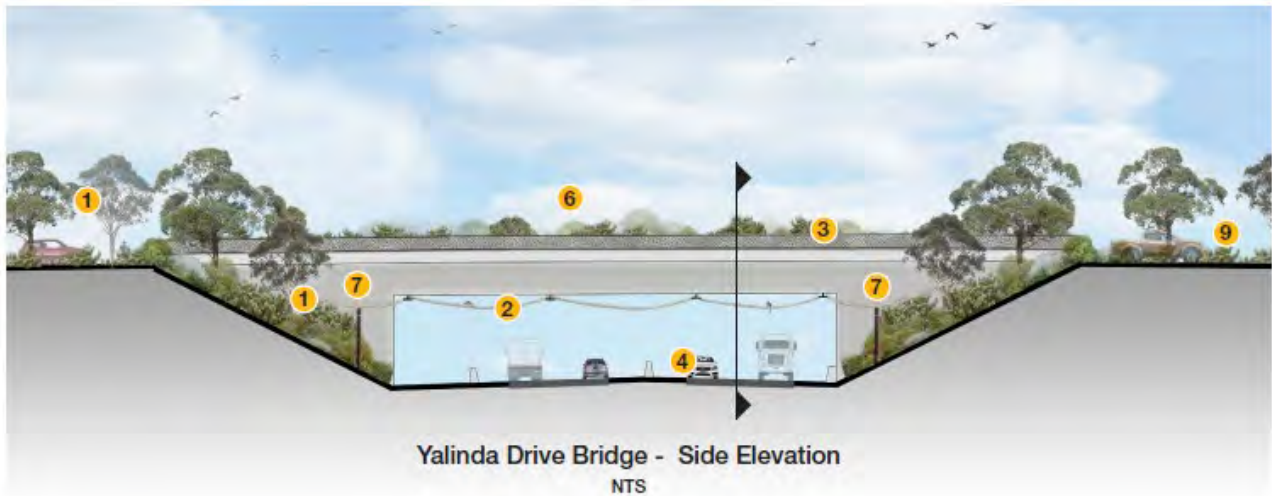
Project No. 61-37041
 Revision No. 1
 Date 22 Jun 2021

**Fauna Crossing Provisions and
 Exclusion Fencing Concept Plan**

FIGURE 12

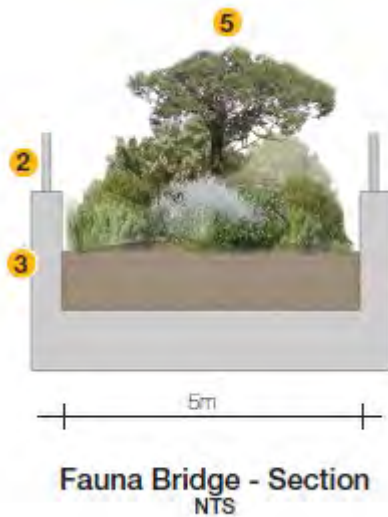
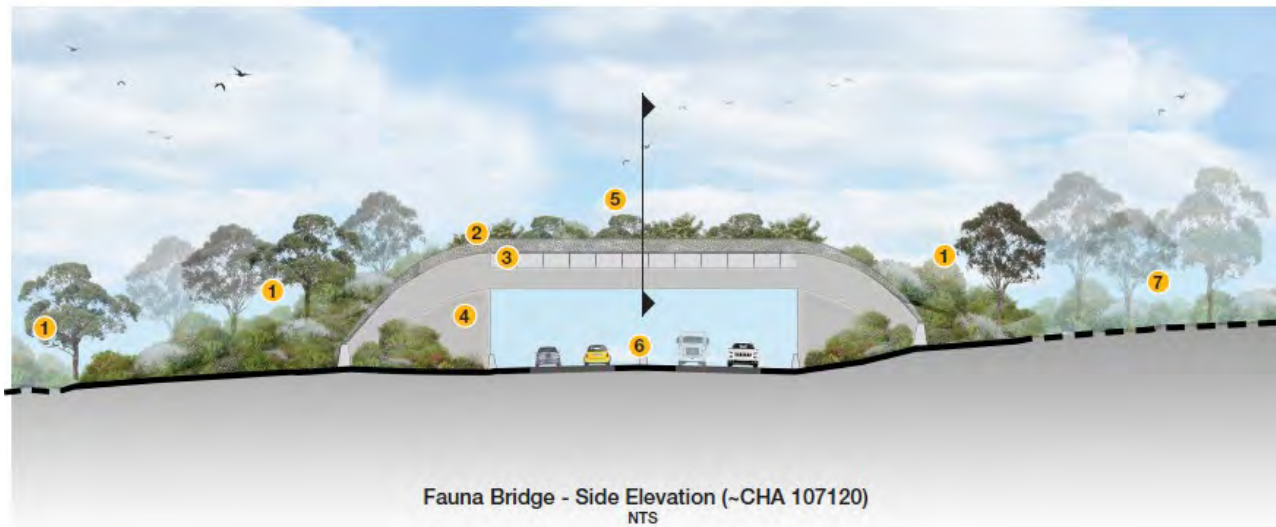
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- 1 Revegetation
- 2 Possum rope bridge
- 3 Screen wall
- 4 BORR carriageway
- 5 Pedestrian and cycling path
- 6 5m wide vegetated strip (1m deep soil)
- 7 Ropes tied to trees
- 8 Vegetated exclusion area
- 9 Yalinda Drive carriageway

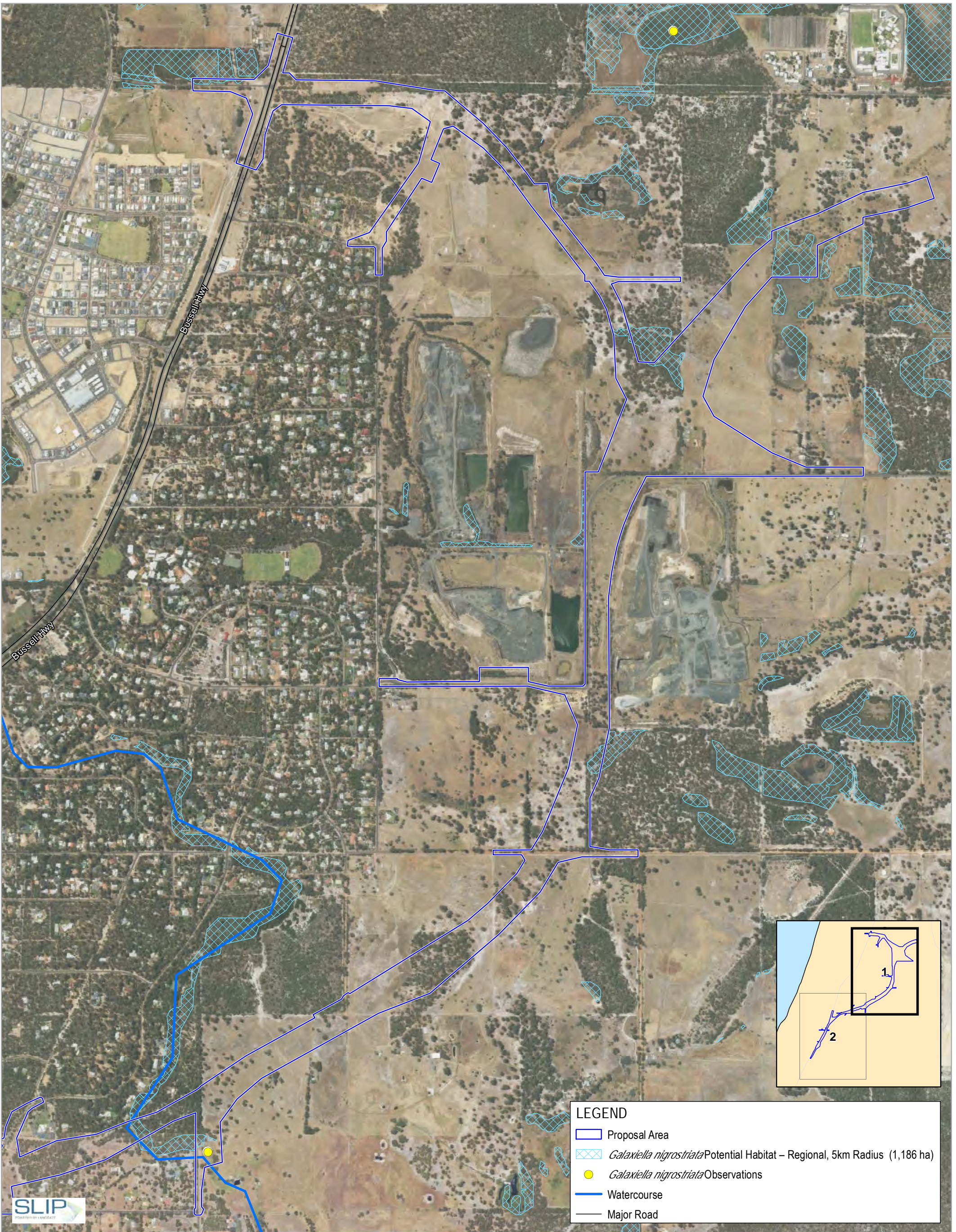
Figure 6 Fauna Land Bridge at the Yalinda Drive



Legend

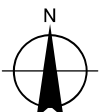
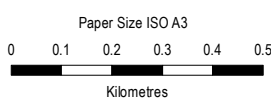
- 1 Revegetation
- 2 Fence/Balustrade
- 3 Concrete barrier/edge
- 4 Abutment wall
- 5 Vegetated strip (1m deep soil)
- 6 BORR carriageway
- 7 Existing vegetation

Figure 7 Fauna Land Bridge east of the Yalinda bridge



LEGEND

- Proposal Area
- Galaxiella nigrostriata* Potential Habitat – Regional, 5km Radius (1,186 ha)
- Galaxiella nigrostriata* Observations
- Watercourse
- Major Road



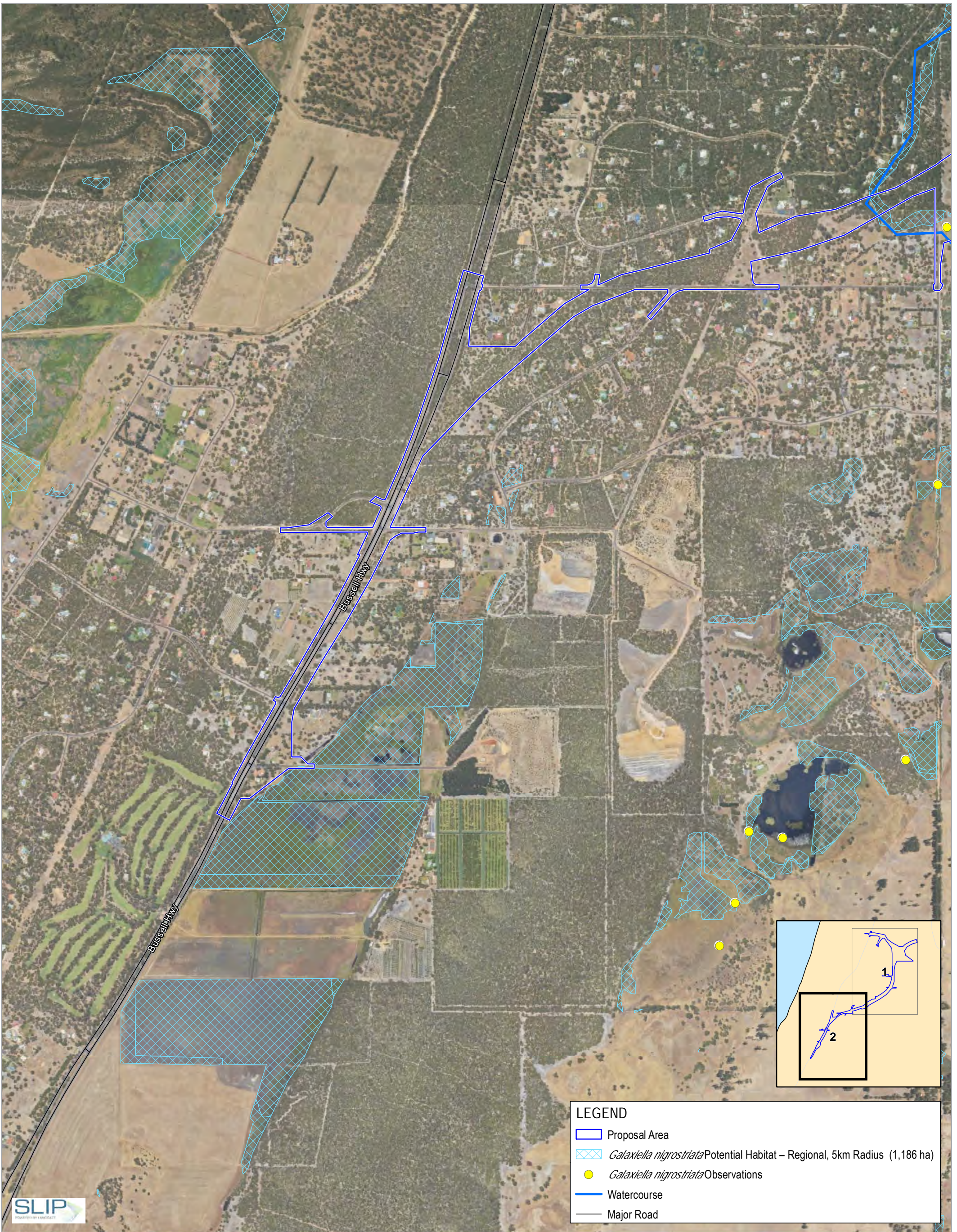
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Main Roads Western Australia
 Bunbury Outer Ring Road Southern Section
 EPBC ARI
**Black-stripe Minnow observations and
 habitat extent within and adjacent
 to the Proposal Area**

Project No. 61-37041
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 Date 22/06/2021

FIGURE 15



LEGEND

- Proposal Area
- Galaxiella nigrostriata* Potential Habitat – Regional, 5km Radius (1,186 ha)
- Galaxiella nigrostriata* Observations
- Watercourse
- Major Road



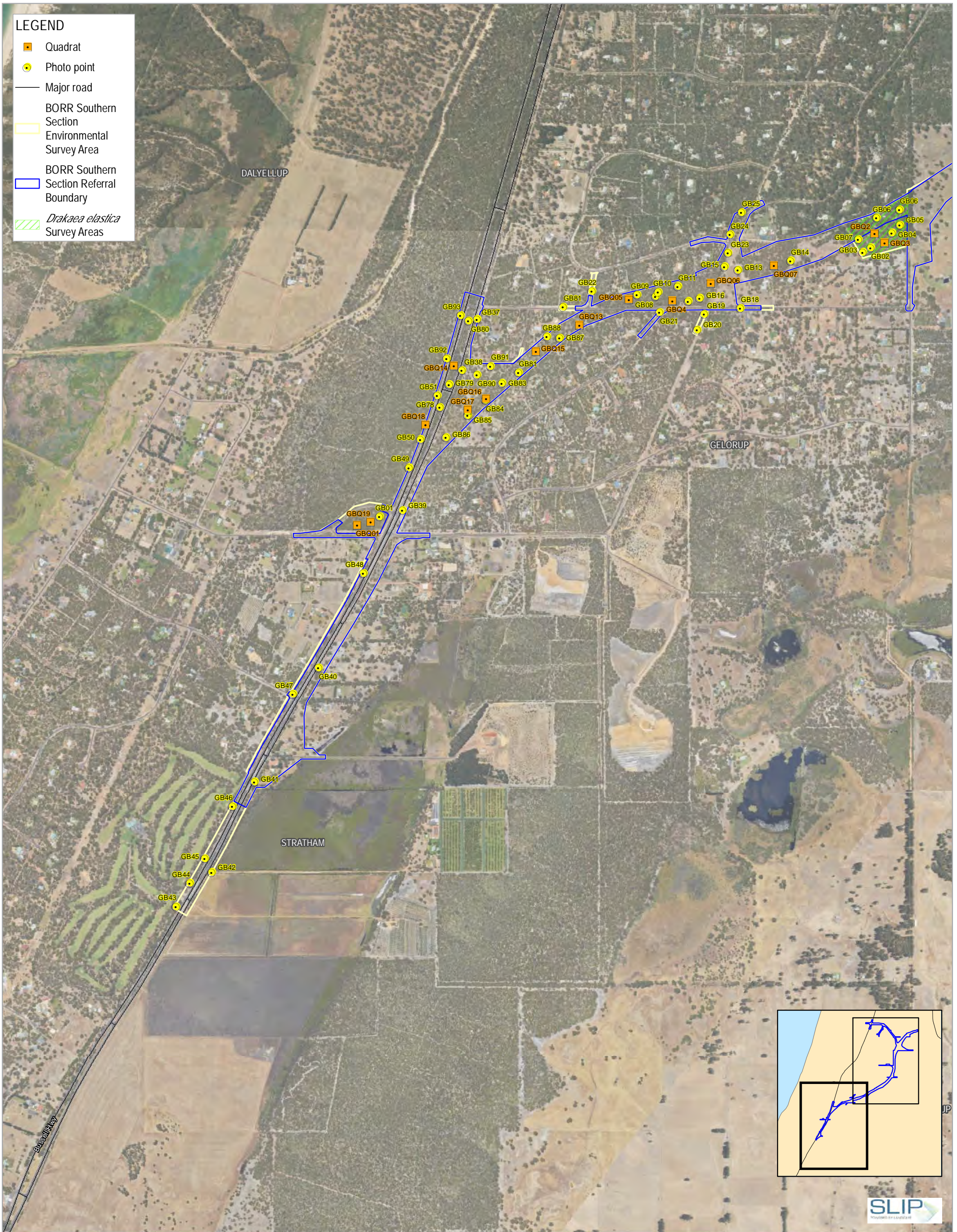
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 Grid: GDA 1994 Perth Coastal Grid 1994



Main Roads Western Australia
 Bunbury Outer Ring Road Southern Section
 EPBC ARI
**Black-stripe Minnow observations and
 habitat extent within and adjacent
 to the Proposal Area**

Project No. 61-37041
 Revision No. 1
 Date 22/06/2021

FIGURE 15



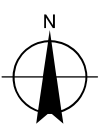
LEGEND

- Quadrat
- Photo point
- Major road
- BORR Southern Section Environmental Survey Area
- BORR Southern Section Referral Boundary
- ▨ *Drakaea elastica* Survey Areas

Paper Size ISO A3

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Kilometres

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



Main Roads Western Australia
Bunbury Outer Ring Road
EPBC ARI

Project No. 61-37041
Revision No. 1
Date 22 Jun 2021

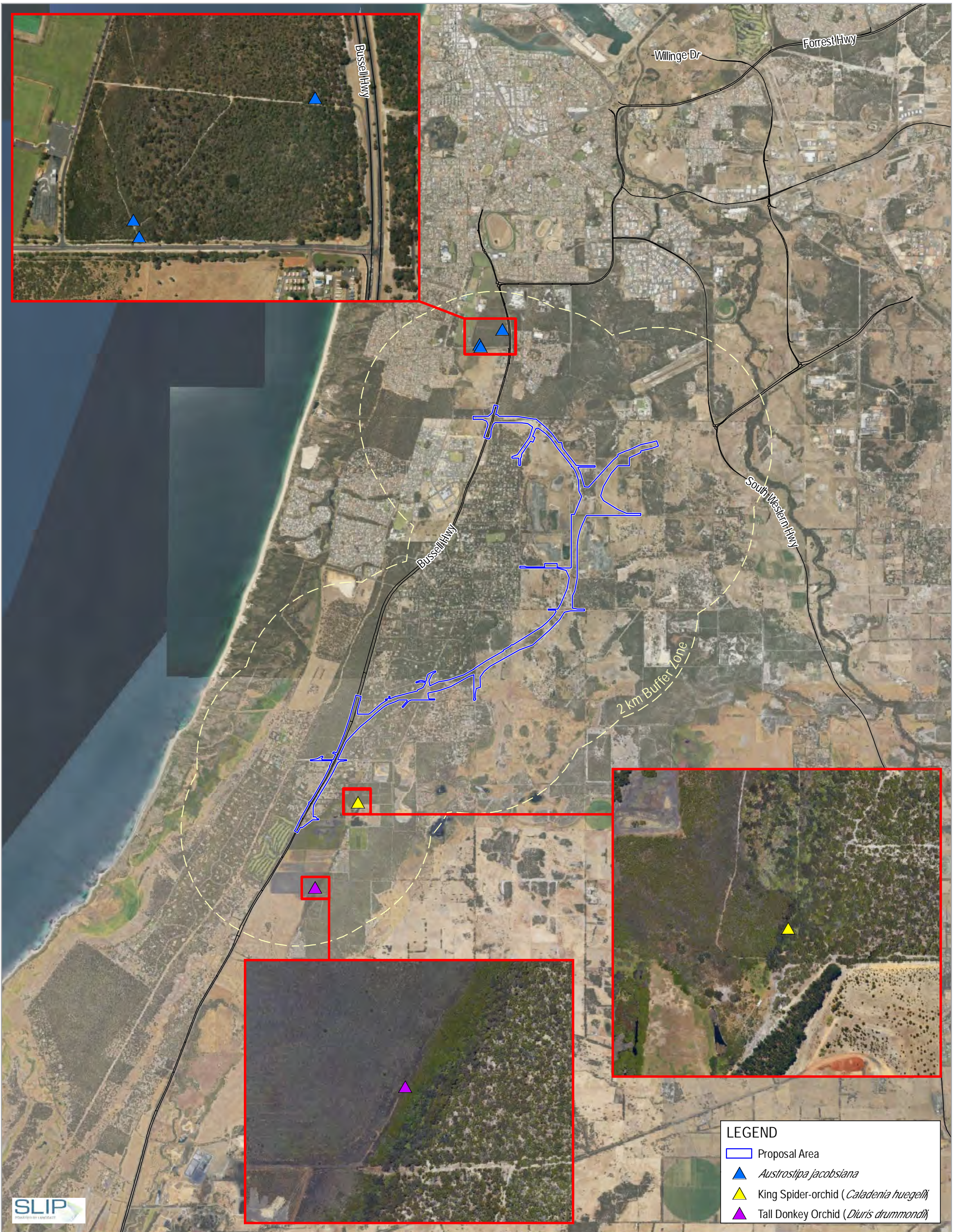
Flora and vegetation studies
undertaken for the Proposal

FIGURE 16

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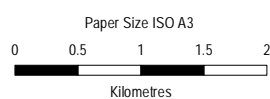
Data source: BORR team: South environmental survey area - 20200214, Quadrats, Releves, Photo points, *Drakaea elastica* survey areas - 2019; Landgate: Roads - 201805; Imagery - WA Now accessed: 20210622. Created by: sli



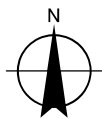


LEGEND

- Proposal Area
- ▲ *Austrostipa jacobsonia*
- ▲ King Spider-orchid (*Caladenia huegelii*)
- ▲ Tall Donkey Orchid (*Diuris drummondii*)



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

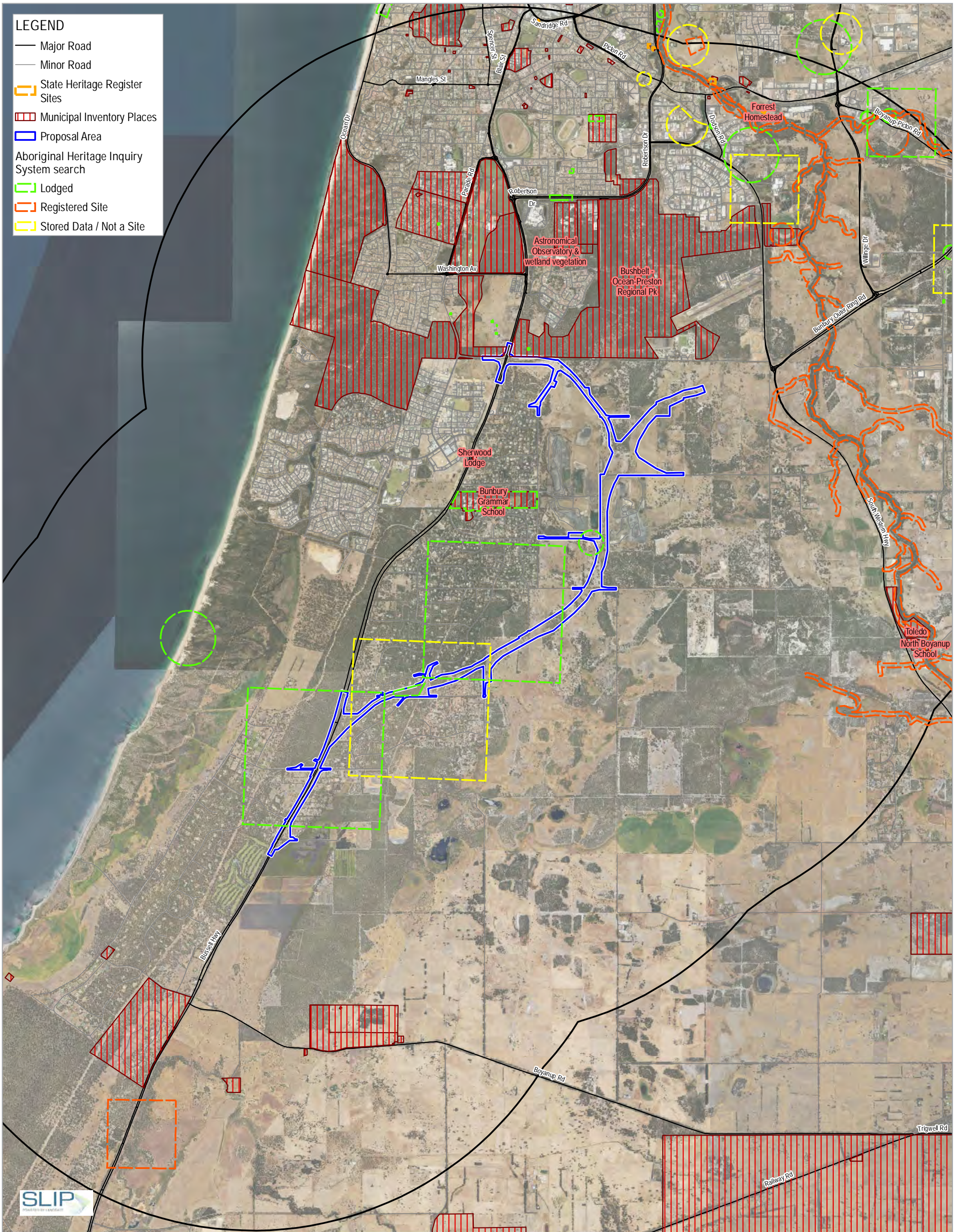


Main Roads Western Australia
 Bunbury Outer Ring Road Southern Section
 EPBC ARI

King Spider-orchid (*Caladenia huegelii*), Tall Donkey Orchid
 (*Diuris drummondii*) and *Austrostipa jacobsonia* populations
 within a 2 km of the Proposal Area

Project No. 61-37041
 Revision No. 1
 Date 22/06/2021

FIGURE 17



LEGEND

- Major Road
- Minor Road
- State Heritage Register Sites
- Municipal Inventory Places
- Proposal Area
- Aboriginal Heritage Inquiry System search
- Lodged
- Registered Site
- Stored Data / Not a Site

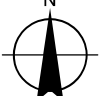


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Kilometres

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



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WESTERN AUSTRALIA

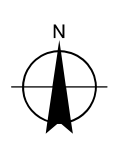
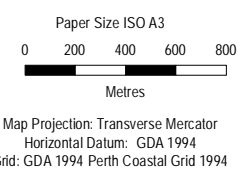
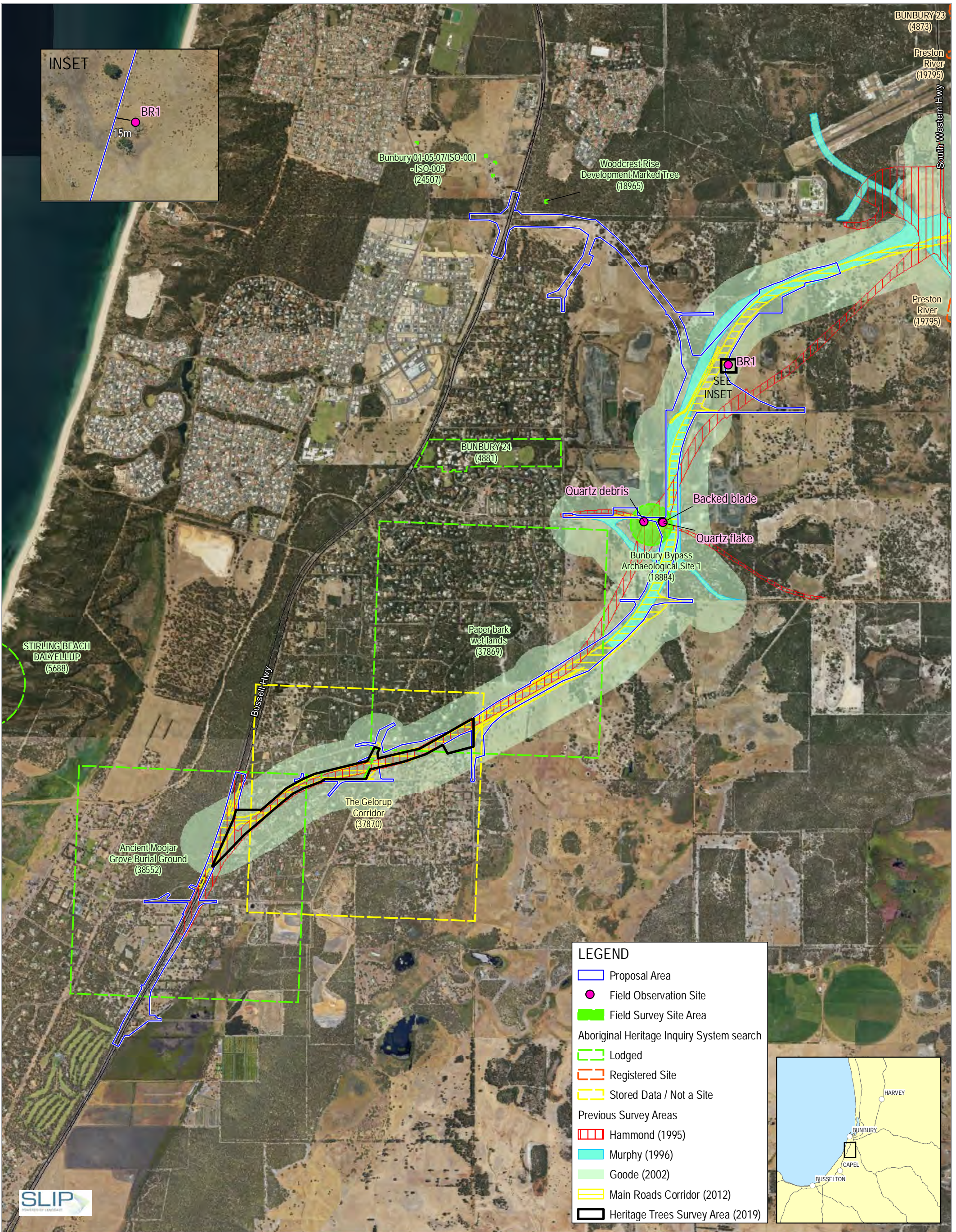
SUNBURY OUTER RING ROAD | FLORISSA ROAD DEVELOPMENT

Main Roads Western Australia
Southern Section
EPBC ARI

Aboriginal and European Heritage Sites
within 5 km of the Proposal Area

Project No. 61-37041
Revision No. 0
Date 22/06/2021

FIGURE 19



Main Roads Western Australia
Bunbury Outer Ring Road Southern Section

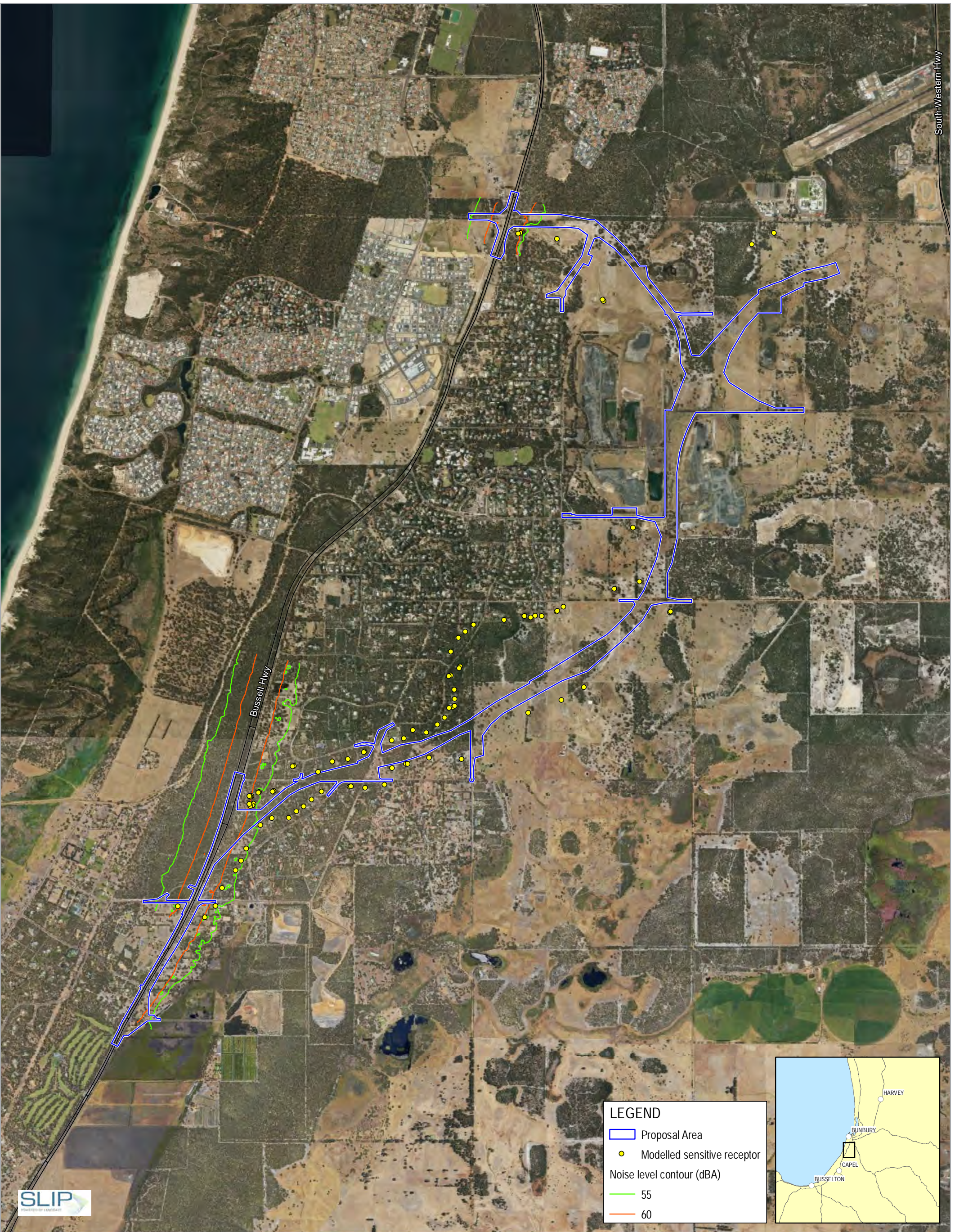
Aboriginal Heritage Inquiry System
search and field survey results

Project No. 61-37041
Revision No. 3
Date 22/06/2021

FIGURE 20

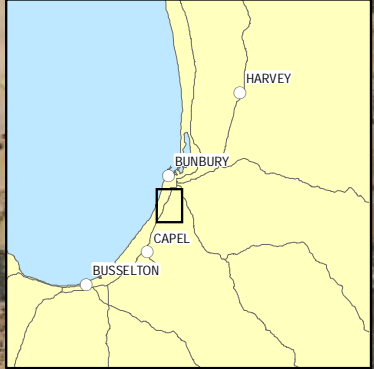
G:\6137041\119_0_GIS\Maps\Working\BORR South EPBC AR\6137041_020_BORRSouthAHSResults_Rev3.mxd
Print date: 22 Jun 2021 - 12:35

Data source: Geoscience Australia: GeoData Topo 250k Series III - 2006; Landgate: Roads - 20180501; Imagery - WA Now accessed 20210622; BORR: Proposal Area - 20191212; Aboriginal Heritage Field Observation Area and Site Location - 20200910; Brad Goode & Associates: Previous Survey Areas - 20200513; DPLH: Aboriginal Heritage Inquiry System search - 20200318. Created by: slt



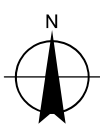
LEGEND

- Proposal Area
- Modelled sensitive receptor
- Noise level contour (dBA)
- 55
- 60



Paper Size ISO A3
 0 200 400 600 800
 Metres

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

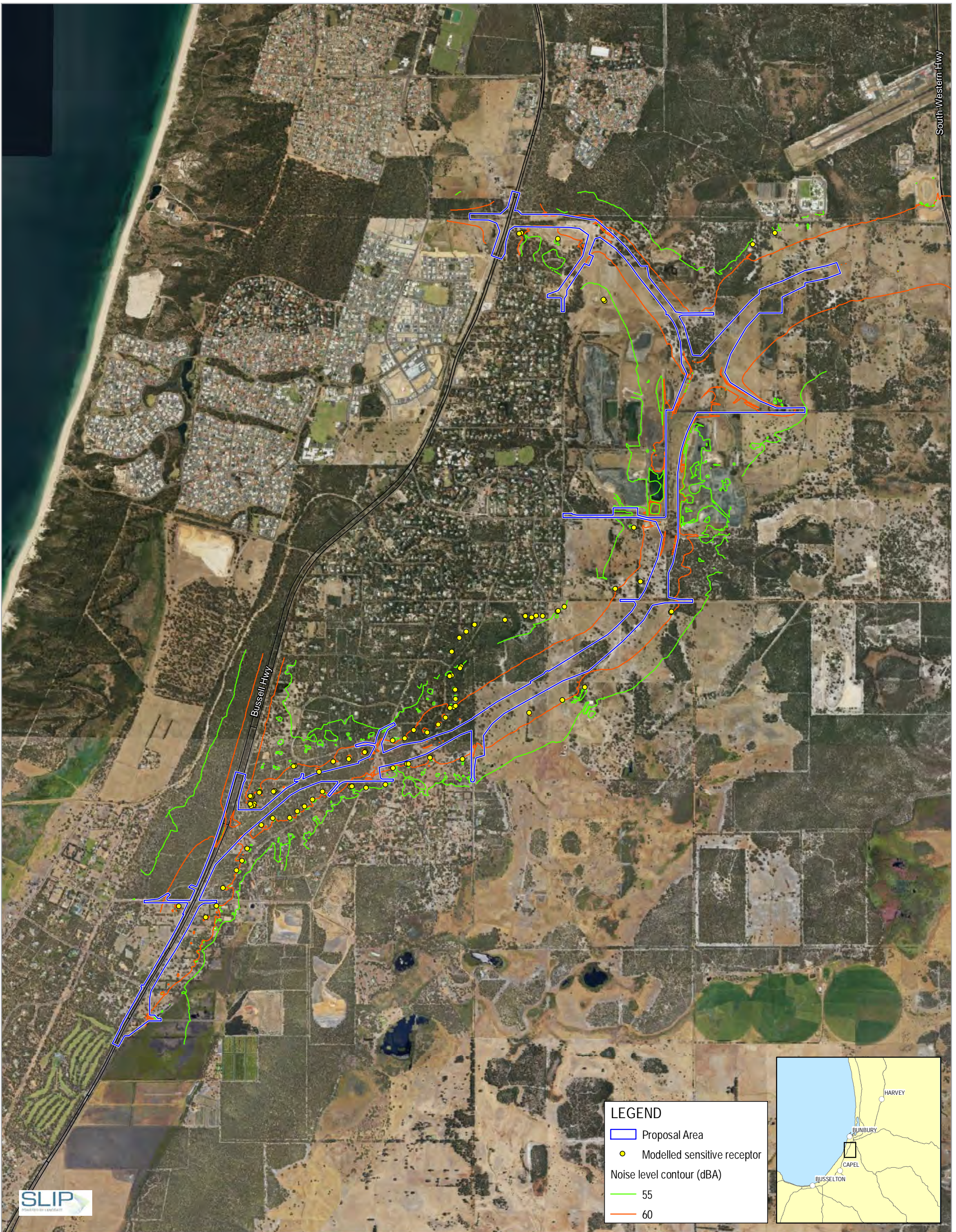


Main Roads Western Australia
 Bunbury Outer Ring Road Southern Section

Day time forecast traffic noise LAeq, day
 Existing 2018 noise levels at the most affected façade

Project No. 61-37041
 Revision No. 2
 Date 22/06/2021

FIGURE 21

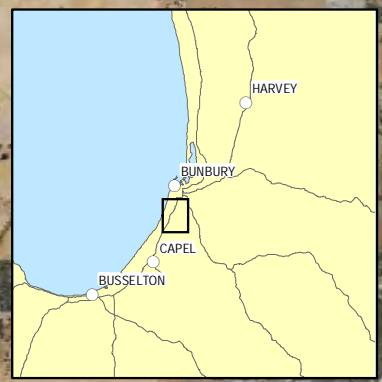


South Western Hwy

Bussell Hwy

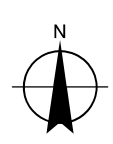
LEGEND

- Proposal Area
- Modelled sensitive receptor
- Noise level contour (dBA)
- 55
- 60



Paper Size ISO A3
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Map Projection: Transverse Mercator
 Horizontal Datum: GDA 1994
 Grid: GDA 1994 Perth Coastal Grid 1994

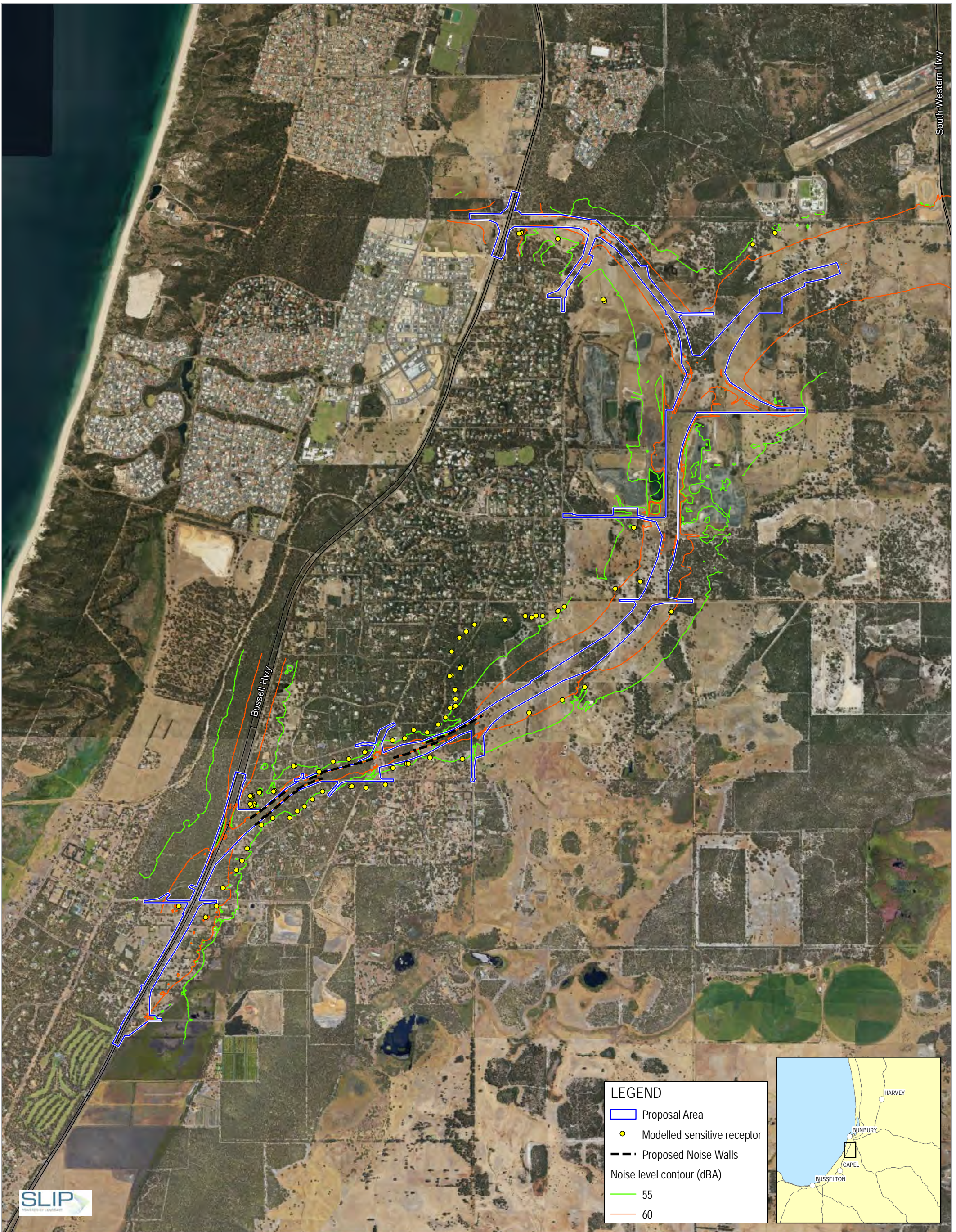


Main Roads Western Australia
 Bunbury Outer Ring Road Southern Section

**Forecast traffic noise LAeq, day
 Build 2041 noise levels at the most
 affected façade - No treatment**

Project No. 61-37041
 Revision No. 2
 Date 22/06/2021

FIGURE 22



South Western Hwy

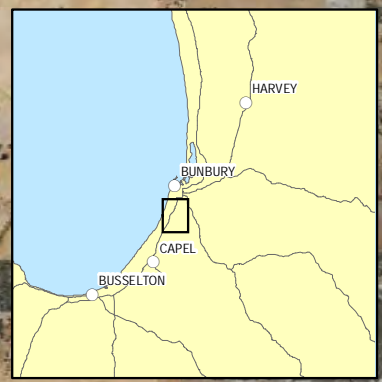
Bussell Hwy

LEGEND

- Proposal Area
- Modelled sensitive receptor
- Proposed Noise Walls

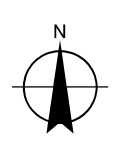
Noise level contour (dBA)

- 55
- 60



Paper Size ISO A3
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 Metres

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

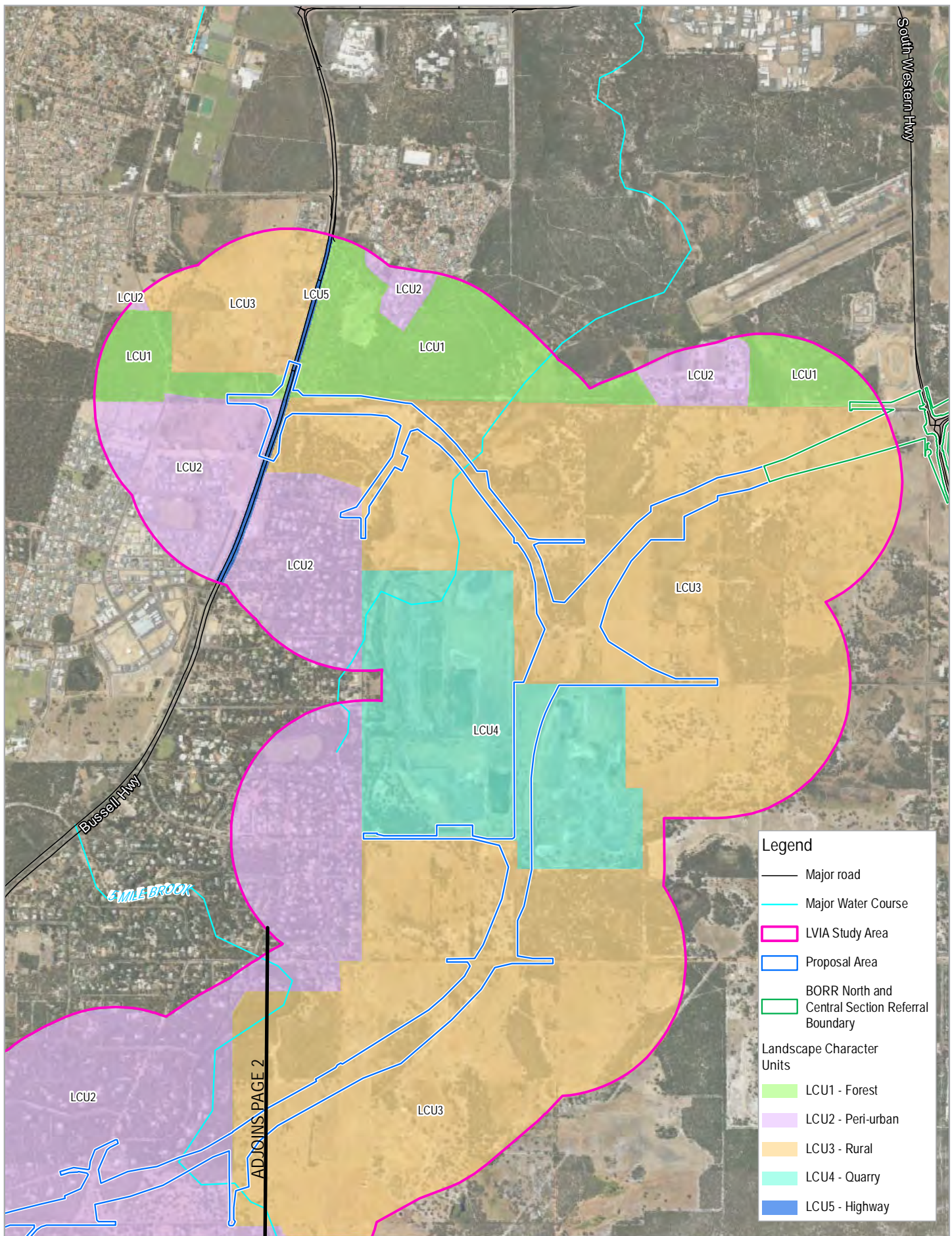


Main Roads Western Australia
 Bunbury Outer Ring Road Southern Section

Forecast traffic noise $L_{Aeq, day}$
 Build 2041 noise levels at the most affected façade - With treatment

Project No. 61-37041
 Revision No. 2
 Date 22/06/2021

FIGURE 23



Legend

- Major road
- Major Water Course
- LVIA Study Area
- Proposal Area
- BORR North and Central Section Referral Boundary

Landscape Character Units

- LCU1 - Forest
- LCU2 - Peri-urban
- LCU3 - Rural
- LCU4 - Quarry
- LCU5 - Highway

Paper Size ISO A4

0 250 500 750 1,000

Metres

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

BORR Team

Australian Government

mainroads WESTERN AUSTRALIA

BUILDING OUR FUTURE

Main Roads Western Australia
Bunbury Outer Ring Road

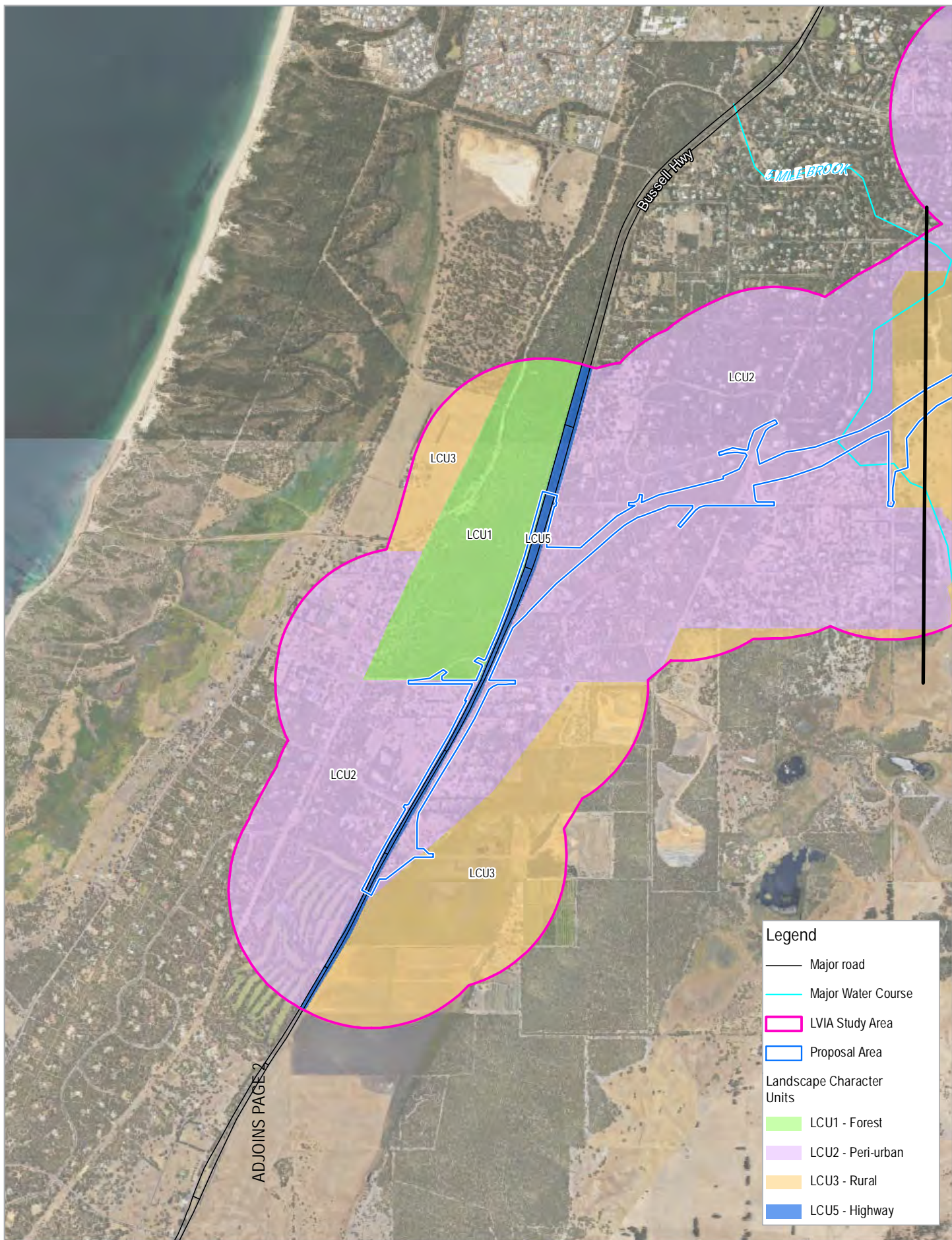
Landscape Character Units

Project No. 61-37041
Revision No. 0
Date 22 Jun 2021

FIGURE 24

G:\6137041\19_0_GIS\Maps\Working\BORR South EPBC AR16 137041_024_LandscapeCharacterUnits_Rev0.mxd
Print date: 22 Jun 2021 - 12:55

Data source: BORR team: LVIA Study Area - 20200303, Proposal Area Boundary - 20191212, North Section Referral Boundary - 20191016, Landscape Character Units - 20200303: DPLH: Regional Open Space - 201811; Landgate: 5m Contours, Water course - 2018, Roads - 201805, LGA Boundaries - 20180319, Imagery - WA Now accessed: 20210622. Created by: sli



ADJOINS PAGE 2

Paper Size ISO A4

0 250 500 750 1,000

Metres

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

BORR Team

Australian Government

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BUILDING OUR FUTURE

Main Roads Western Australia
Bunbury Outer Ring Road

Landscape Character Units

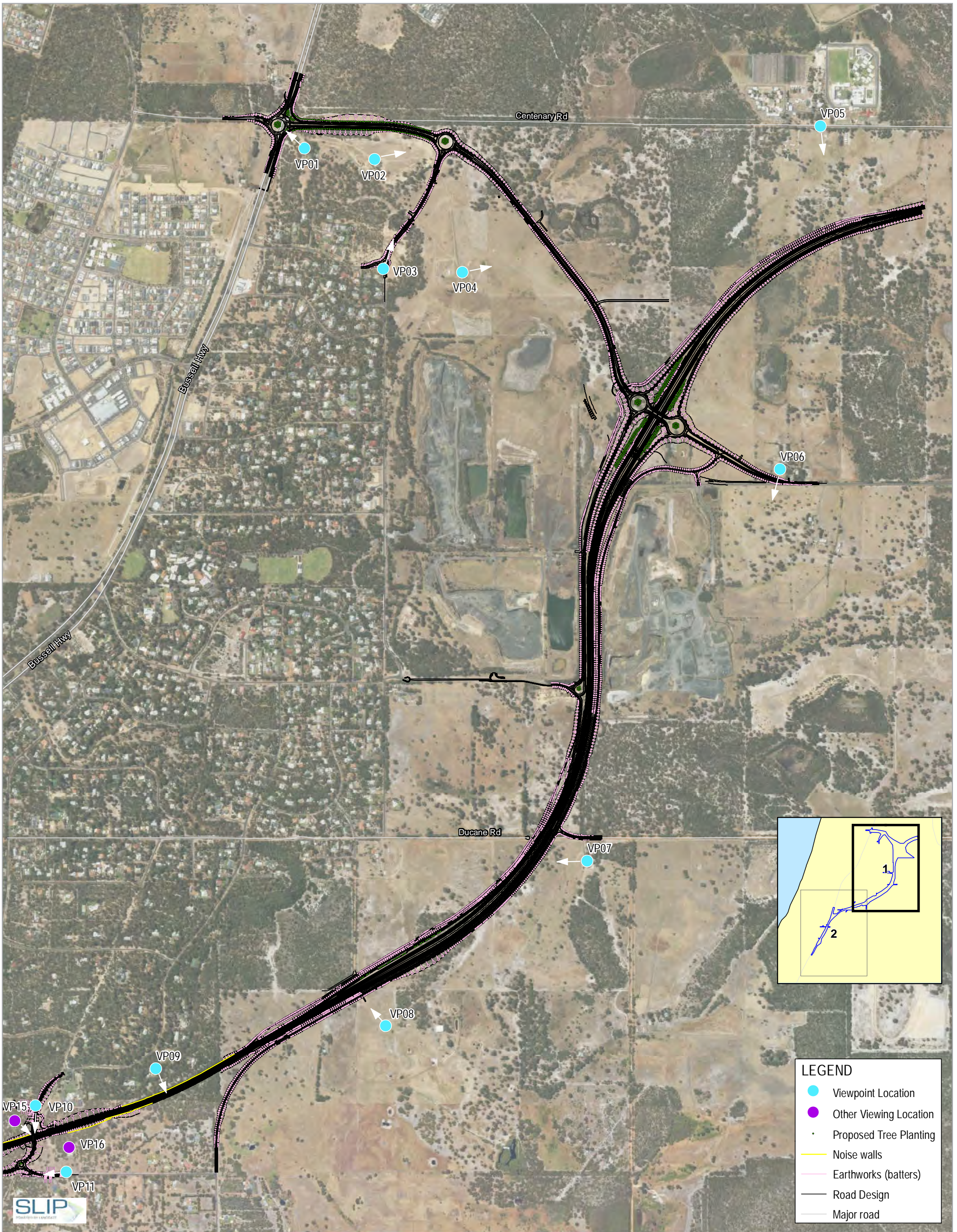
Project No. 61-37041
Revision No. 0
Date 22 Jun 2021

Page 2 of 2

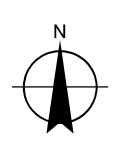
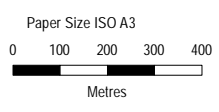
FIGURE 24

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Print date: 22 Jun 2021 - 12:55

Data source: BORR team: LVIA Study Area - 20200303, Proposal Area Boundary - 20191212, North Section Referral Boundary - 20191016, Landscape Character Units - 20200303: DPLH: Regional Open Space - 201811; Landgate: 5m Contours, Water course - 2018, Roads - 201805, LGA Boundaries - 20180319, Imagery - WA Now accessed: 20210622. Created by: sli



LEGEND	
●	Viewpoint Location
●	Other Viewing Location
•	Proposed Tree Planting
—	Noise walls
—	Earthworks (batters)
—	Road Design
—	Major road



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



Main Roads Western Australia
 Bunbury Outer Ring Road Southern Section

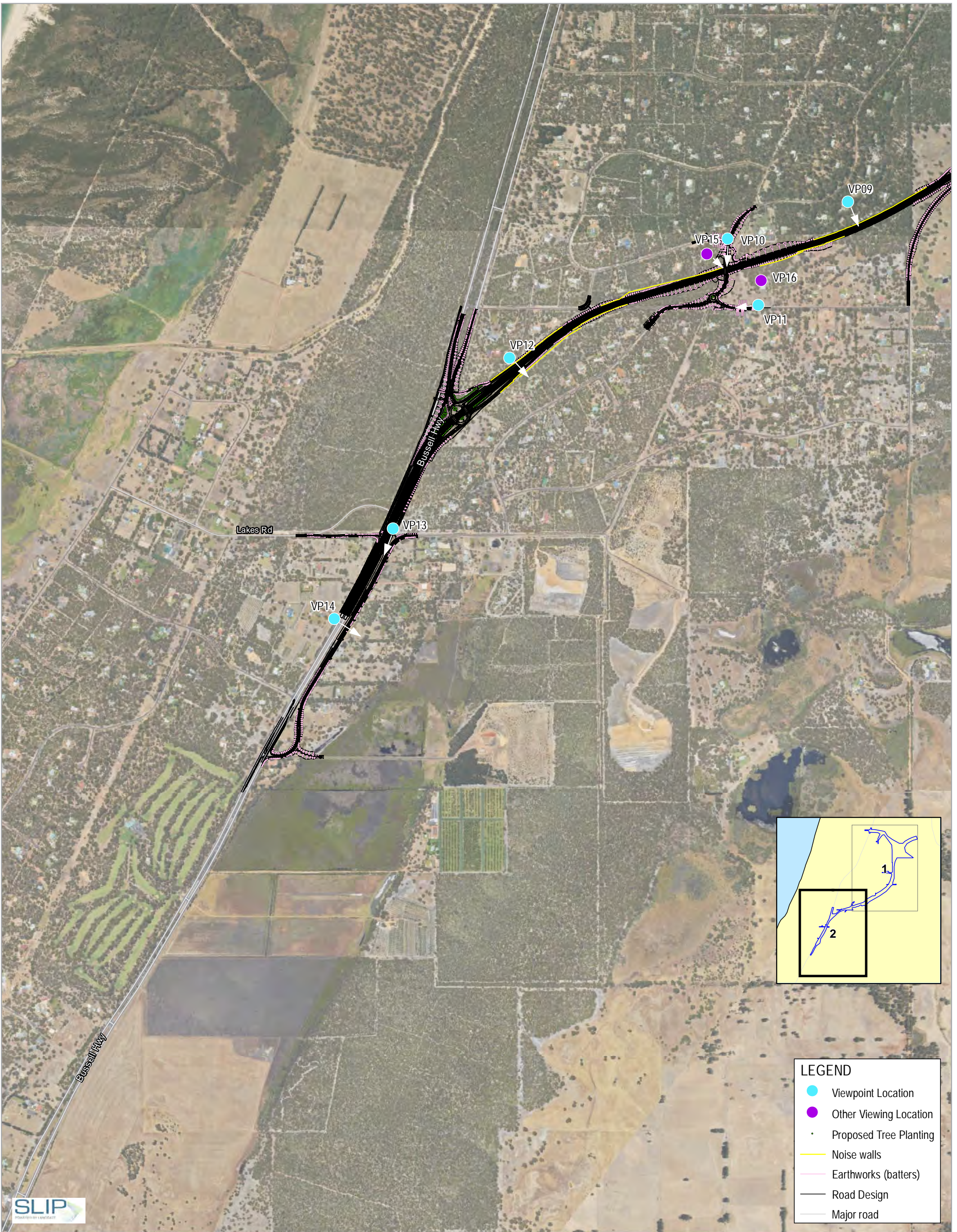
Landscape Visual Impact
 Assessment viewpoint locations

Project No. 61-37041
 Revision No. 0
 Date 22/06/2021

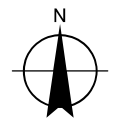
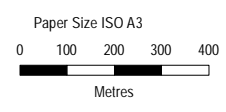
FIGURE 25

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 Print date: 22 Jun 2021 - 12:48

Data source: BORR team: Viewpoint Location - 20200304, LVA Study Area - 20200303, South Section Referral Boundary - 20191212, Landscape Character Units - 20200303, DPLH: Regional Open Space - 201811, Landgate: 5m Contours, Water course - 2018, Roads - 201805, LGA Boundaries - 20180319, Imagery - WA Now accessed: 20210622. Created by: slt



LEGEND	
●	Viewpoint Location
●	Other Viewing Location
•	Proposed Tree Planting
—	Noise walls
- - -	Earthworks (batters)
—	Road Design
—	Major road



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



Main Roads Western Australia
Bunbury Outer Ring Road Southern Section

Landscape Visual Impact
Assessment viewpoint locations

Project No. 61-37041
Revision No. 0
Date 22/06/2021

FIGURE 25

G:\6137041\19_0_GIS\Maps\Working\BORR South EPBC AR\6137041_025_BORRSouthViewpointLoc_Multipage_Rev0.mxd
Print date: 22 Jun 2021 - 12:49

Data source: BORR team: Viewpoint Location - 20200304, LVIA Study Area - 20200303, South Section Referral Boundary - 20191212, Landscape Character Units - 20200303, DPLH: Regional Open Space - 201811, Landgate: 5m Contours, Water course - 2018, Roads - 201805, LGA Boundaries - 20180319, Imagery - WA Now accessed: 20210622. Created by: slt



EXISTING VIEW



PROPOSED VIEW, YEAR 0



View Direction: 64.35°
 Horizontal Field Of View: 80°
 Camera Height: 1.6 m
 Camera Type: Cannon EOS 6D
 Lens Type: 50 mm
 Photograph Time & Date: 1:54 pm,
 30th January 2020

Location: Bussell Highway Gelorup
 Coordinates: 374291.270,13695072.139
 (GDA 1994 MGA Zone 50)
 Viewpoint Elevation: 32.0 m
 Date of Photomontage: 9th March 2020
 Issue: v01

Viewpoint 02

Figure 26 Photomontages from selected view points within the Proposal Area Page 1 of 8



PROPOSED VIEW, YEAR 5



View Direction: 64.35°
 Horizontal Field Of View: 80°
 Camera Height: 1.6 m
 Camera Type: Cannon EOS 6D
 Lens Type: 50 mm
 Photograph Time & Date: 1:54 pm,
 30th January 2020

Location: Bussell Highway Gelorup
 Coordinates: 374291.270,13695072.139
 (GDA 1994 MGA Zone 50)
 Viewpoint Elevation: 32.0 m
 Date of Photomontage: 9th March 2020
 Issue: v01

Bunbury Outer Ring Road, Southern Section
 Main Roads
Viewpoint 02
 Figure 26 Photomontages from selected view
 points within the Proposal Area Page 2 of 8



EXISTING VIEW



PROPOSED VIEW, YEAR 0



View Direction: 179.83°
 Horizontal Field Of View: 80°
 Camera Height: 1.6 m
 Camera Type: Cannon EOS 6D
 Lens Type: 50 mm
 Photograph Time & Date: 2:53 pm,
 30th January 2020

Location: Lillydale Road
 North Boyanup
 Coordinates: 376216.252, 1369508.407
 (GDA 1994 MGA Zone 50)
 Viewpoint Elevation: 22.6 m
 Date of Photomontage: 9th March 2020
 Issue: v01

Bunbury Outer Ring Road, Southern Section
 Main Roads
Viewpoint 06
 Figure 26 Photomontages from selected view
 points within the Proposal Area Page 3 of 8



PROPOSED VIEW, YEAR 5



View Direction: 179.83°
 Horizontal Field Of View: 80°
 Camera Height: 1.6 m
 Camera Type: Cannon EOS 6D
 Lens Type: 50 mm
 Photograph Time & Date: 2:53 pm,
 30th January 2020

Location: Lillydale Road
 North Boyanup
 Coordinates: 376216.252, 1369508.407
 (GDA 1994 MGA Zone 50)
 Viewpoint Elevation: 22.6 m
 Date of Photomontage: 9th March 2020
 Issue: v01

Viewpoint 06

Figure 26 Photomontages from selected view points within the Proposal Area Page 4 of 8



EXISTING VIEW



PROPOSED VIEW, YEAR 0



View Direction: 264.19°
 Horizontal Field Of View: 80°
 Camera Height: 1.6 m
 Camera Type: Cannon EOS 6D
 Lens Type: 50 mm
 Photograph Time & Date: 9:15 am,
 29th January 2020

Location: Woods Road Gelorup
 Coordinates: 372896.888, 13699854.999
 (GDA 1994 MGA Zone 50)
 Viewpoint Elevation: 11.7 m
 Date of Photomontage: 9th March 2020
 Issue: v01

Viewpoint 11

Figure 26 Photomontages from selected view points within the Proposal Area Page 5 of 8

PROPOSED VIEW, YEAR 5



View Direction: 264.19°
 Horizontal Field Of View: 80°
 Camera Height: 1.6 m
 Camera Type: Cannon EOS 6D
 Lens Type: 50 mm
 Photograph Time & Date: 9:15 am,
 29th January 2020

Location: Woods Road Gelorup
 Coordinates: 372896.888, 13699854.999
 (GDA 1994 MGA Zone 50)
 Viewpoint Elevation: 11.7 m
 Date of Photomontage: 9th March 2020
 Issue: v01

Viewpoint 11

Figure 26 Photomontages from selected view points within the Proposal Area Page 6 of 8



EXISTING VIEW



PROPOSED VIEW, YEAR 0



View Direction: 122.67°
 Horizontal Field Of View: 80°
 Camera Height: 1.6 m
 Camera Type: Cannon EOS 6D
 Lens Type: 50 mm
 Photograph Time & Date: 12:56 pm,
 29th January 2020

Location: Woods Road Gelorup
 Coordinates: 371728.980, 13700115.947
 (GDA 1994 MGA Zone 50)
 Viewpoint Elevation: 24.9 m
 Date of Photomontage: 9th March 2020
 Issue: v01

Viewpoint 12

Figure 26 Photomontages from selected view points within the Proposal Area Page 7 of 8



PROPOSED VIEW, YEAR 5

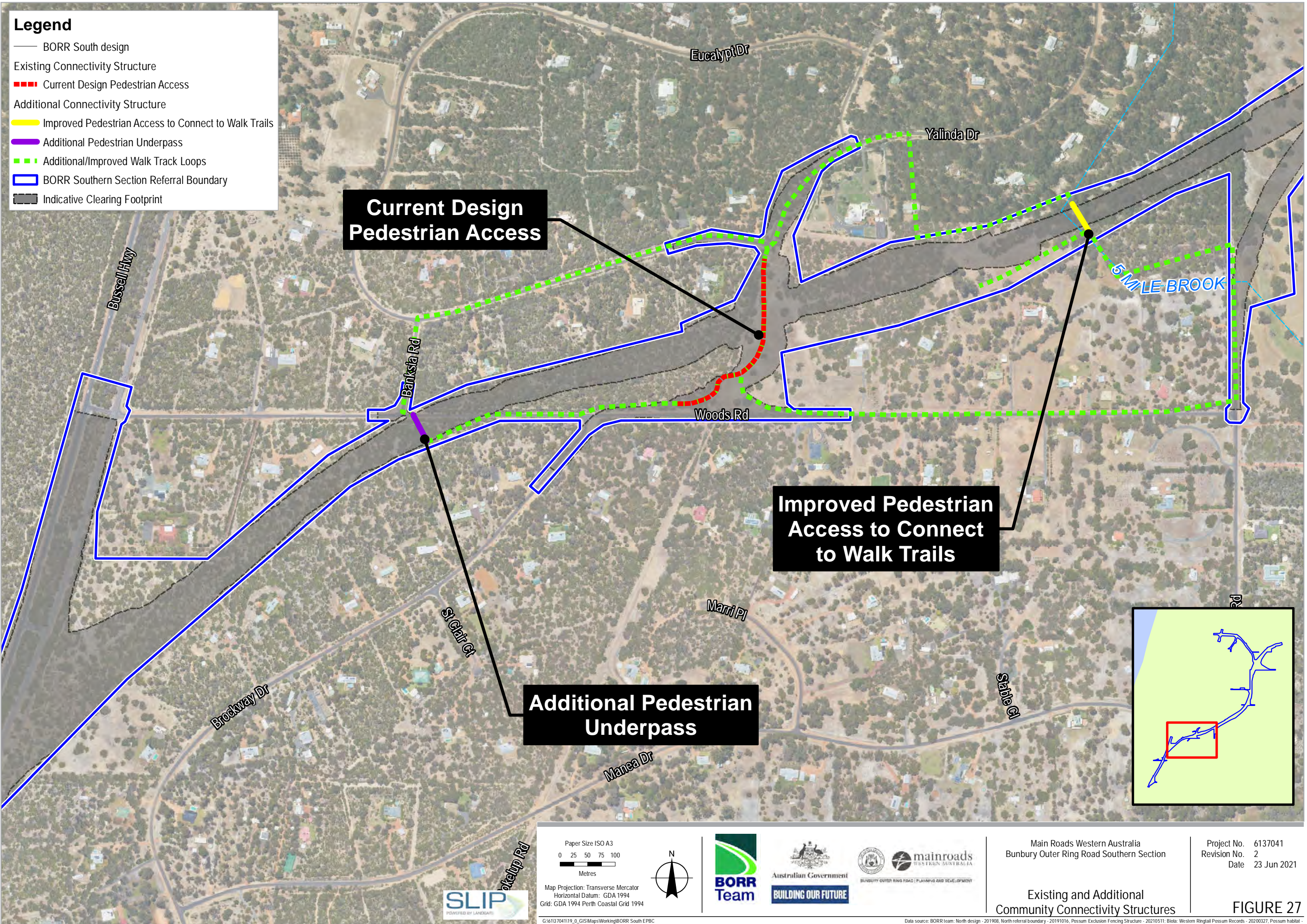


View Direction: 122.67°
 Horizontal Field Of View: 80°
 Camera Height: 1.6 m
 Camera Type: Cannon EOS 6D
 Lens Type: 50 mm
 Photograph Time & Date: 12:56 pm,
 29th January 2020

Location: Woods Road Gelorup
 Coordinates: 371728.980, 13700115.947
 (GDA 1994 MGA Zone 50)
 Viewpoint Elevation: 24.9 m
 Date of Photomontage: 9th March 2020
 Issue: v01

Viewpoint 12

Figure 26 Photomontages from selected view points within the Proposal Area Page 8 of 8

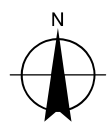
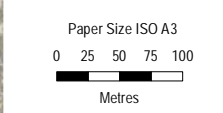


- Legend**
- BORR South design
 - Existing Connectivity Structure
 - Current Design Pedestrian Access
 - Additional Connectivity Structure
 - Improved Pedestrian Access to Connect to Walk Trails
 - Additional Pedestrian Underpass
 - Additional/Improved Walk Track Loops
 - BORR Southern Section Referral Boundary
 - Indicative Clearing Footprint

Current Design Pedestrian Access

Improved Pedestrian Access to Connect to Walk Trails

Additional Pedestrian Underpass



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



Main Roads Western Australia
Bunbury Outer Ring Road Southern Section

Existing and Additional
Community Connectivity Structures

Project No. 6137041
Revision No. 2
Date 23 Jun 2021

FIGURE 27

G:\6137041\119_0_GIS\Maps\Working\BORR South EPBC AR16 137041_027_SocialConnectivityStudy_Rev2.mxd
Print date: 23 Jun 2021 - 14:02

Data source: BORR team: North design - 201908, North referral boundary - 20191016, Possum Exclusion Fencing Structure - 20210511, Biota: Western Ringtail Possum Records - 20200327, Possum habitat - 201910; Landgate: Imagery - WA Now accessed 20210623. Created by: slt