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BUNBURY OUTER RING ROAD | PLANNING AND DEVELOPMENT

**BUILDING OUR FUTURE**

# Bunbury Outer Ring Road Southern Community Reference Group

6 August 2019



# Agenda

	Arrival – light refreshments available	
	Welcome	Linton Pike
	Meeting Purpose and Context	Linton Pike
	Project Update <ul style="list-style-type: none"> <li>• Northern &amp; Central Sections</li> <li>• Delivery Planning</li> <li>• Bussell Highway Interchange Options</li> </ul>	Dominic Boyle / Chris Mitchell
	Southern Section Local Access	Chris Mitchell
	Southern Section Environmental Impacts	Fionnuala Hannon
	Environmental Approval Process	Martine Scheltema
	Community and Stakeholder Engagement Update	Gemma Bertrand
	CRG Member Round Table Discussion	CRG Members
	Next Steps	Dominic Boyle
	Close	Linton Pike

A blurred image of a white truck with blue and red accents driving under a concrete bridge structure. The truck is moving from left to right, creating a sense of motion. The bridge structure is made of concrete and has several large pillars supporting it. The background is a bright blue sky.

# Meeting Purpose and Context

## Linton Pike



# Project Update

Dominic Boyle / Chris Mitchell

## Northern & Central Sections

- Level of Environmental Assessment decided by EPA: Assess on Referral Information with additional information to be provided
- First round of land acquisition meetings complete – process underway

## Southern Section

- Targeting referral late August – more information this evening
- Land acquisition meetings commenced
- Concept design progressing

# Delivery Planning

- Early Tender Advice posted on Tenders WA last week
- Alerts Industry to Upcoming Project
- Proposing single delivery contract for all sections – Alliance
- c12 month procurement process
- Expressions of Interest – September 2019
- Request for Proposals from Shortlist – March 2020
- Award late 2020
- Construction subject to approvals (incl. environmental & heritage)

# **Bussell Highway Interchange Options**

**Chris Mitchell**

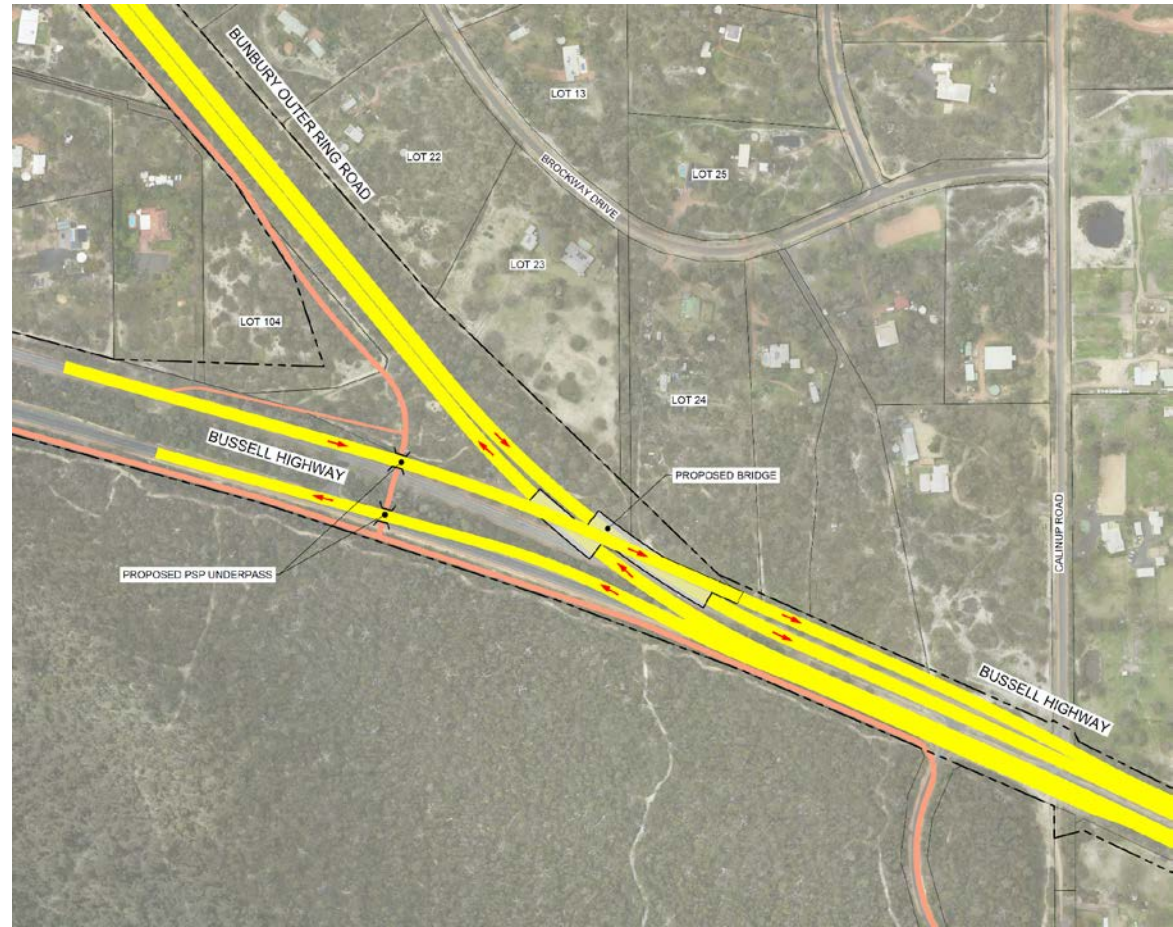
# Design Considerations

- Future SW Freeway – free flow BORR to Bussell and vice versa
- Provide continued free flow access onto Bussell Highway towards Bunbury
- Land – remain within Greater Bunbury Region Scheme road corridor
- Safety / geometric design
- Aesthetics
- Cost



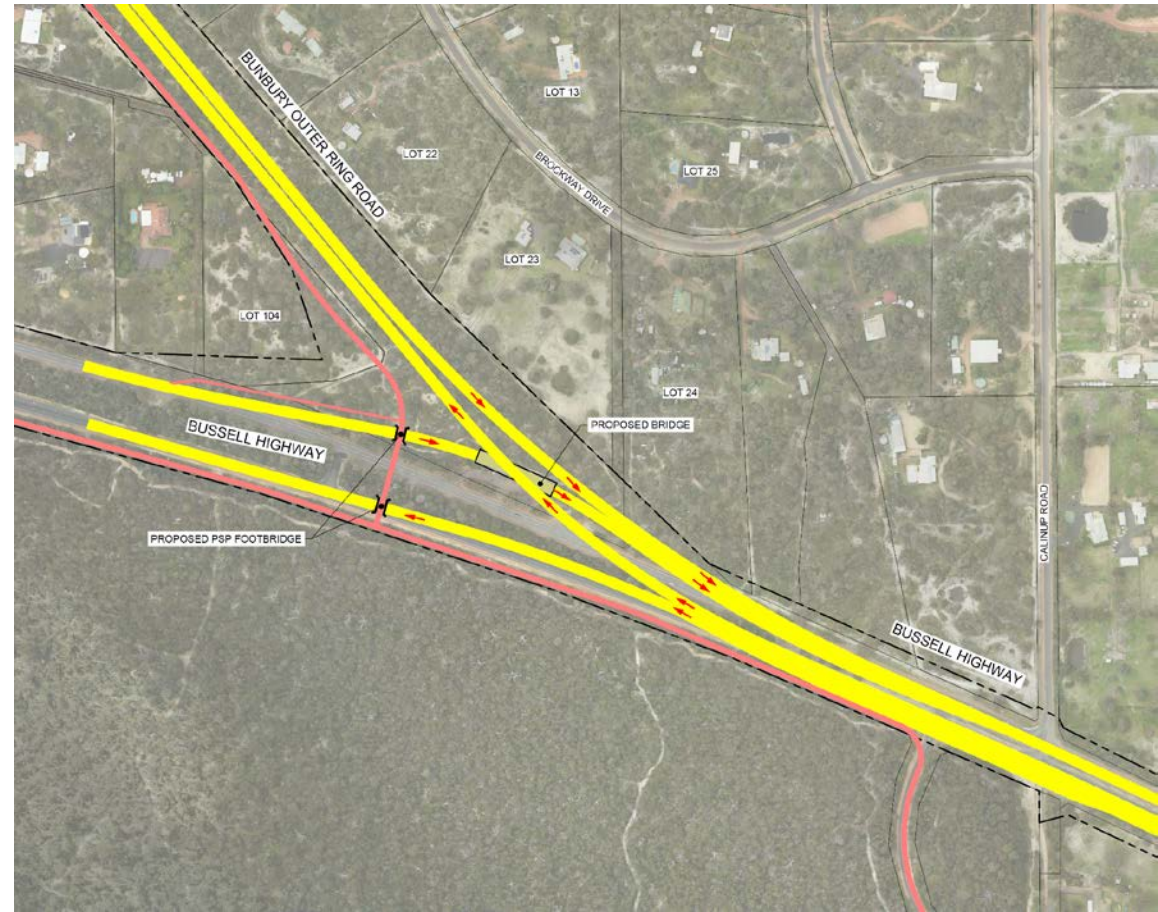
# Option 1 – Y Interchange

- Freeflow access to and from the south
- Significant bridge over BORR for Bussell Highway southbound
- Poor aesthetics
- Significant cost



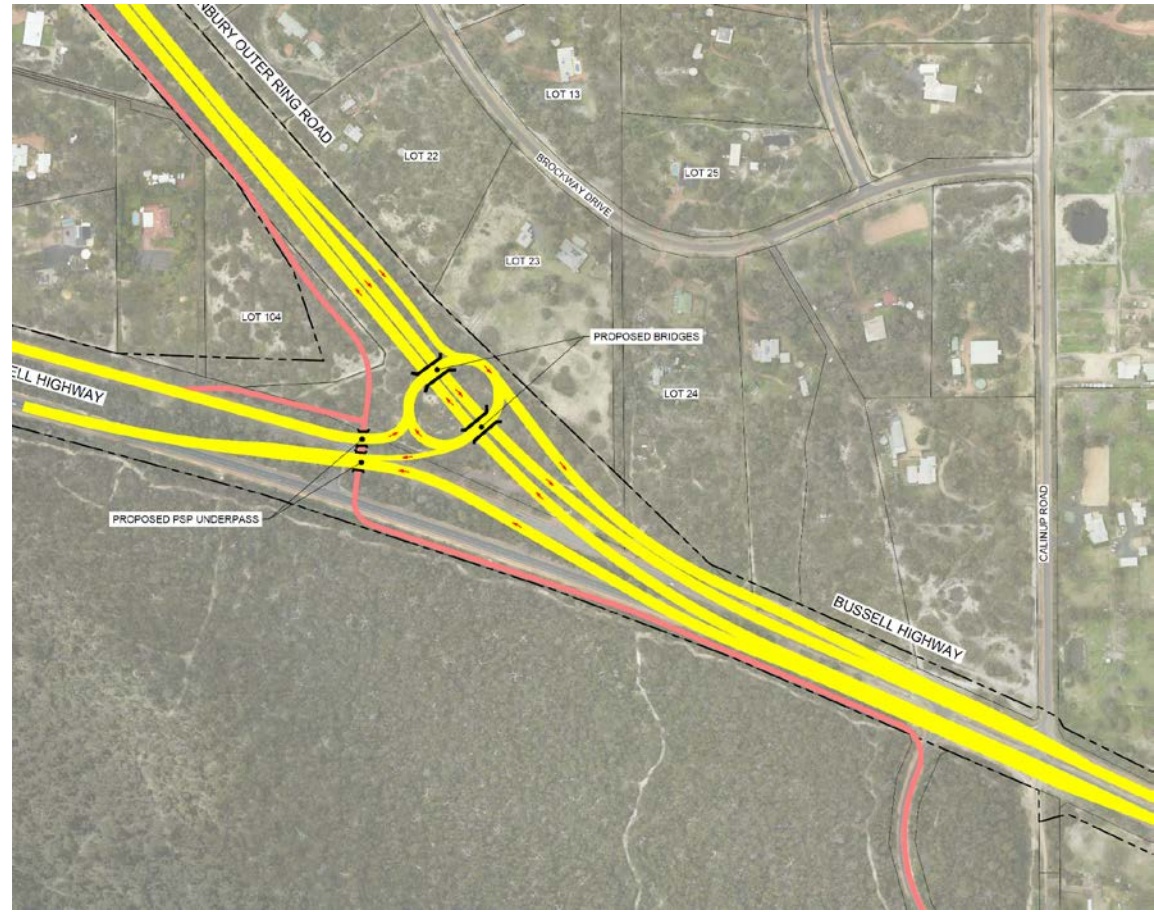
## Option 2 – Y Interchange (right hand merge)

- Freeflow access to and from the south
- Reduced bridge extents compared to Option 1
- Traffic required to “weave” across Bussell Highway to access to Calinup Road
- Right hand merge is less safe than left hand merge



# Option 3 – Grade Separated Roundabout

- Freeflow access from the south to BORR and to Bunbury (Bussell Highway)
- Increased connectivity between BORR and Bussell Highway
- Reduced bridge requirements
- Improved aesthetics and operation and maintenance



A photograph of a truck moving quickly under a concrete bridge, creating a motion blur effect. The truck is white with blue and red accents. The bridge structure is made of large concrete beams. The background is a solid blue color.

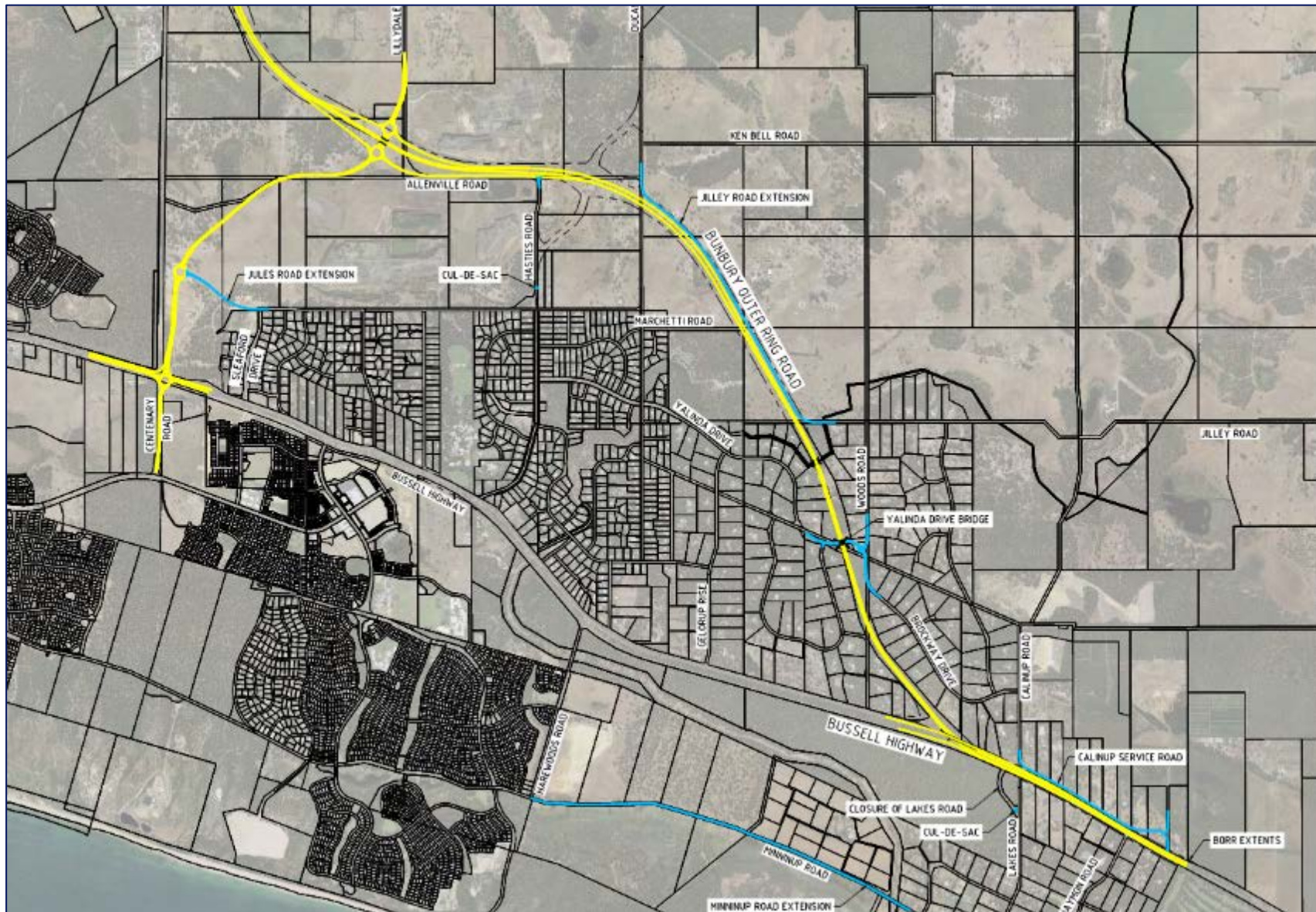
# Southern Section Local Access Arrangements

Chris Mitchell

# Local Access Workshop Overview

- Workshop held on the 23<sup>rd</sup> July
- 45 participants attended, these include community representatives, Shire of Capel, City of Bunbury, Holcim, Hanson, Main Roads and BORR Team
- Overview of local access through the whole southern section of BORR
- Primary focus on local (day-to-day access)
- Emergency access is being addressed through consultation with DFES, Shire of Capel and local fire brigades

# BORR South Access Plan



# Centenary Road



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- Centenary Road connection will be provided.
- Dumbbell interchange
- Alignment of Centenary Road is being refined.

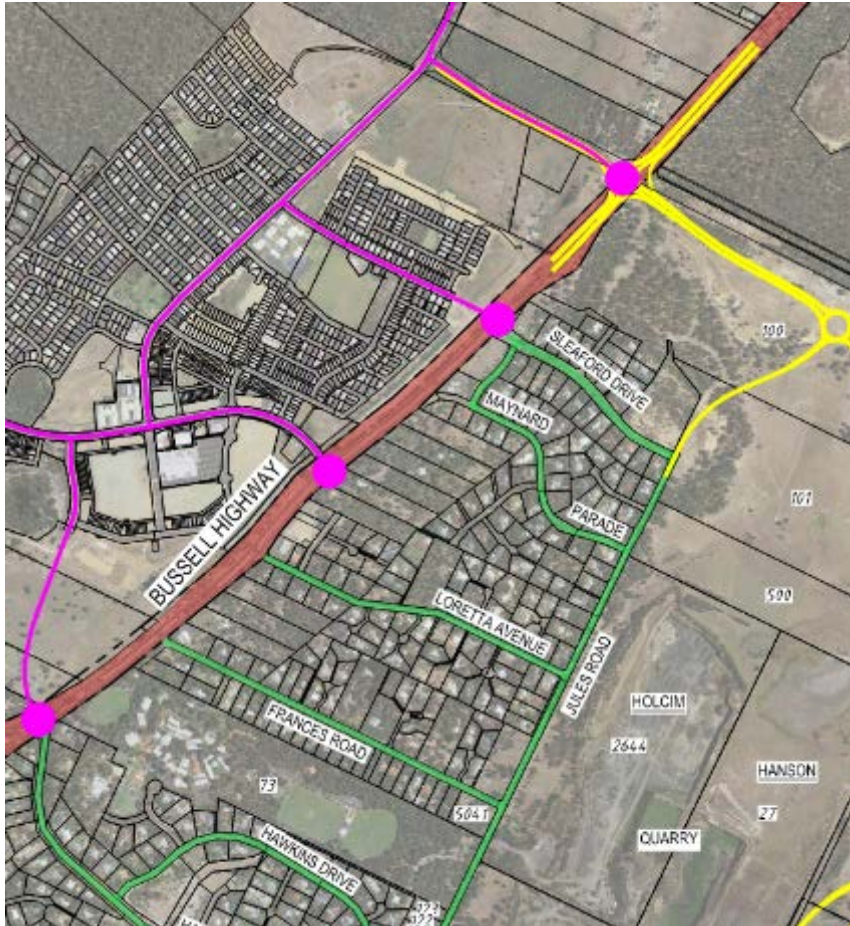
# Quarry Access



- ★
  - Holcim access onto Jules Road will be light vehicles only
- ★
  - New heavy vehicle only access from Holcim to Hasties Road
- - Hasties Road cul-de-sac immediately east of Jules Road
- ★
  - Hanson Access remains as per existing

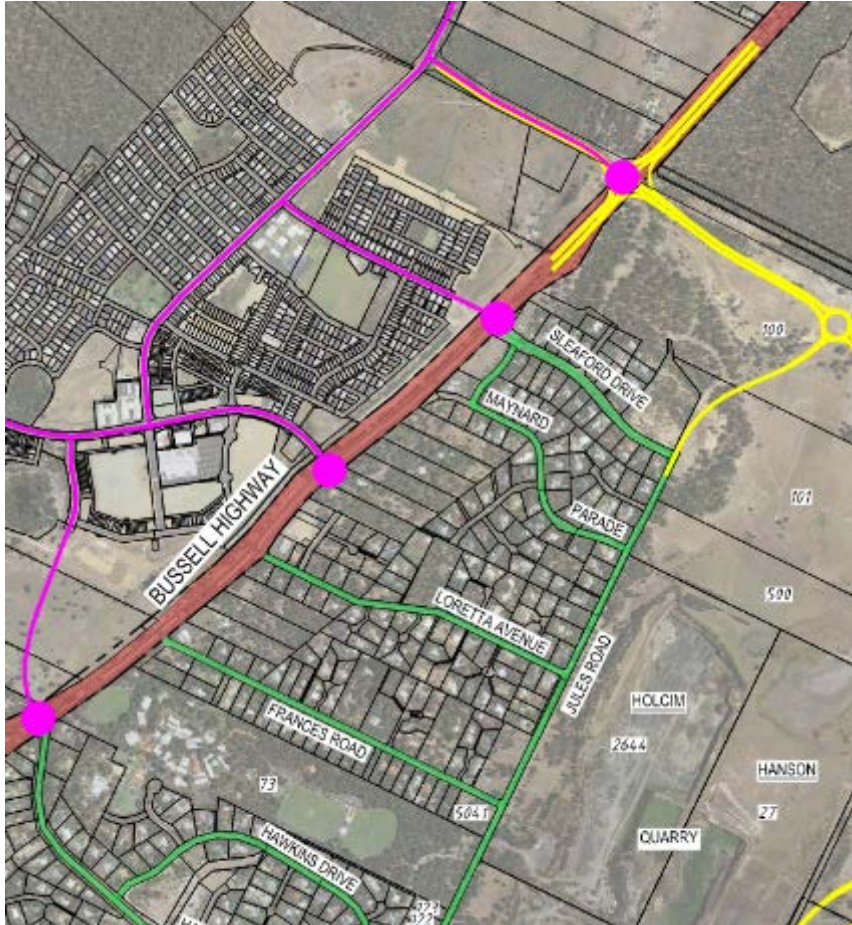


## Jules Road Extension – Community Feedback



- Is this connection to Centenary Road required?
- Concern over additional traffic on Jules Road.
- Jules Road connection provides safe access northbound to Bunbury.
- Traffic on Bussell Highway will be less with BORR so leave as is.
- Acceptance if Jules Road is not connected that all journeys will require the use of Bussell Highway.
- Additional egress point and access to BORR is a benefit to the broader community but not to those directly adjacent.

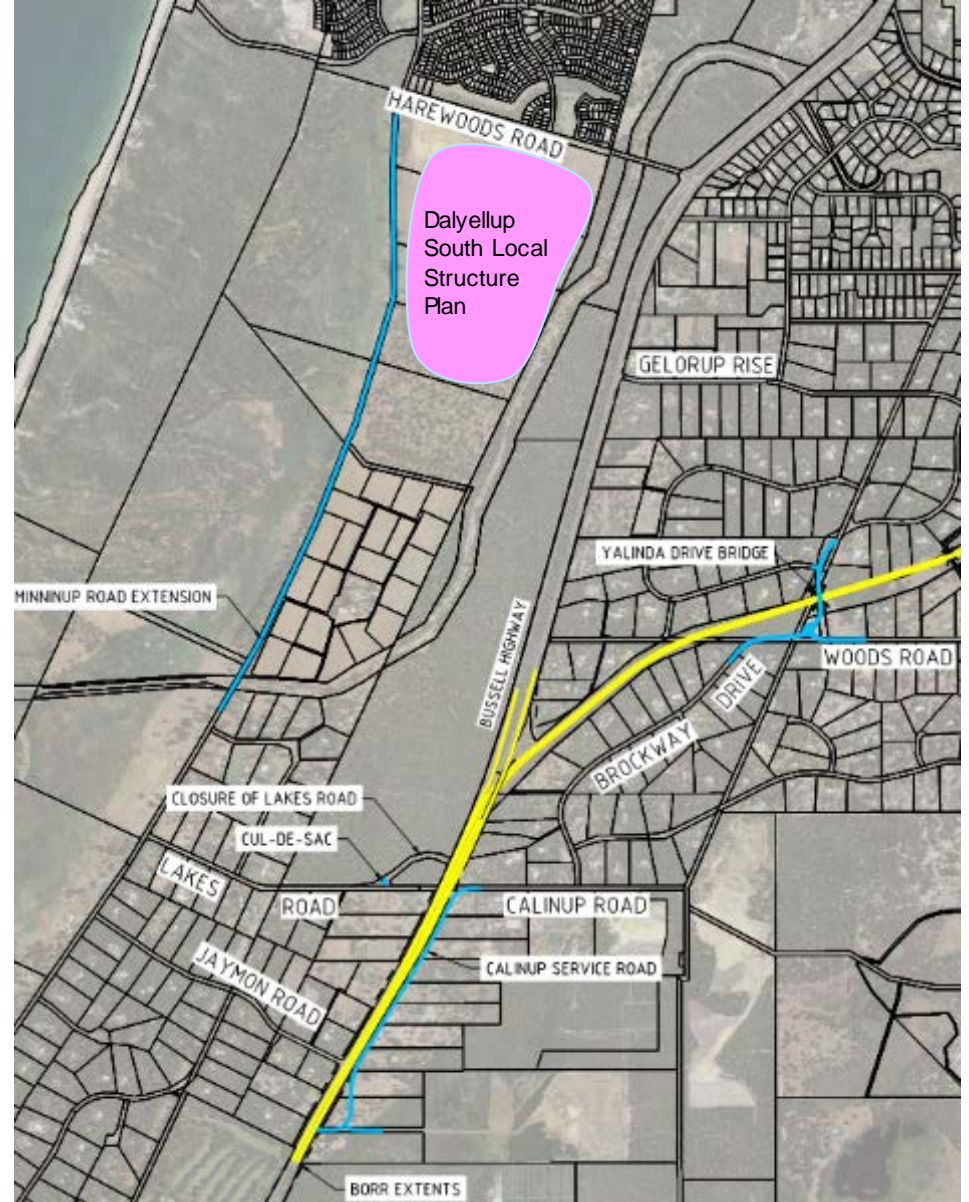
## Jules Road Extension – Where to from here?



- Consultation with Shire of Capel, Main Roads and DPLH will continue.
- Continue consultation with DFES.
- Consider impacts if no connection.
- Consider ultimate plan versus project case.
- Provide feedback to this group and wider community.

# Minninup Road

- Minninup Road to be extended to Harewoods Road per approved local structure plans.
- This connection is proposed due to Lakes Road being closed at Bussell Highway to maintain access.



# Calinup Road Design



# Taranto Road Example



# Yalinda Drive Bridge



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Yalinda Drive bridge:

- Maintains existing connectivity
- Community access

# Further work



- Assessment of a connection between Ducane Road and Lillydale Road

# Summary

- Differing views on connecting Jules Road to Centenary Road
- Yalinda Drive crossing of BORR recommended
- Support for cul-de-sac of Hasties and relocation Holcim Quarry access
- Investigate connection of Ducane to Lillydale
- Further discussion (BORR Team / Main Roads SW Region / Shire of Capel)





# Environmental Referral Boundary

Chris Mitchell

# Why is the referral boundary bigger than land acquisition boundary?

- Identified corridor allows for local roads and access modifications
- Allowance for accommodation works on private properties
- Provides a level of conservatism for the referral (worst case impact)
- Consultation with individual landowners regarding individual impacts
- Refinement of land acquisition boundary based on consultation

# Environmental Referral Boundary





# Southern Section Environmental Impacts

Fionnuala Hannon



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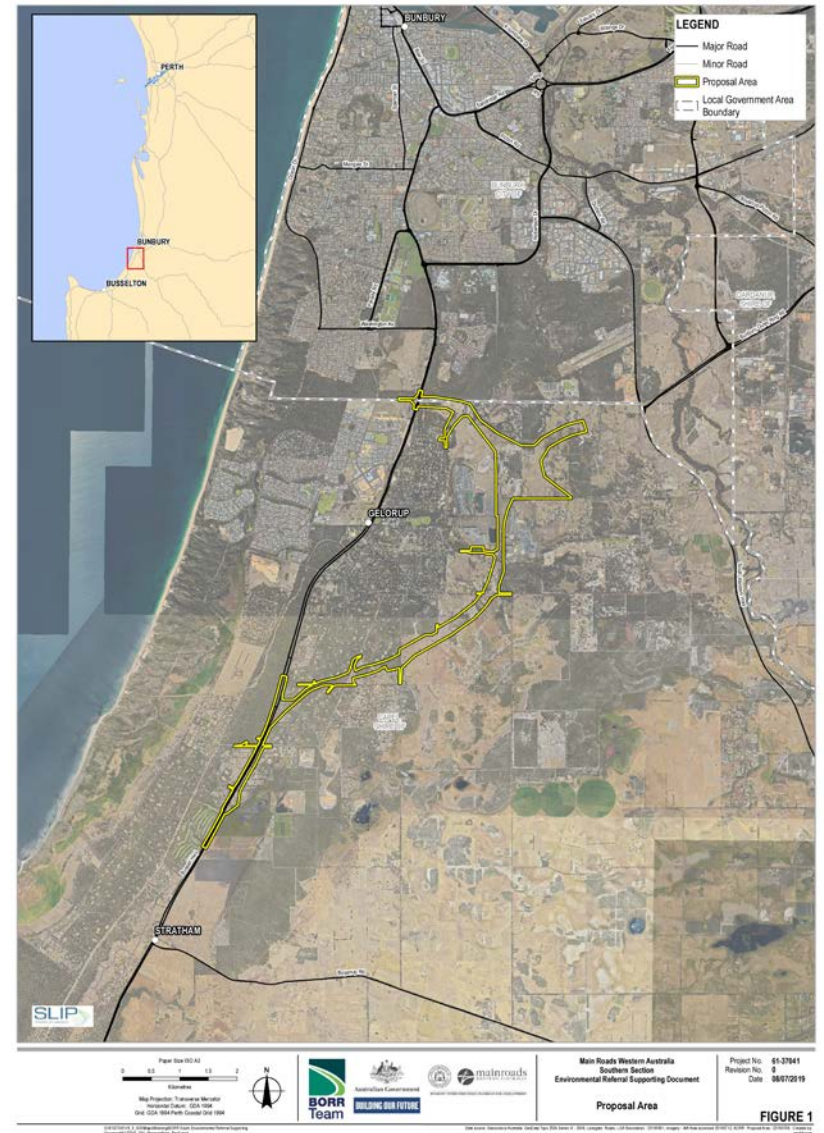
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# BORR Southern Section

Total Area referred: 300 ha

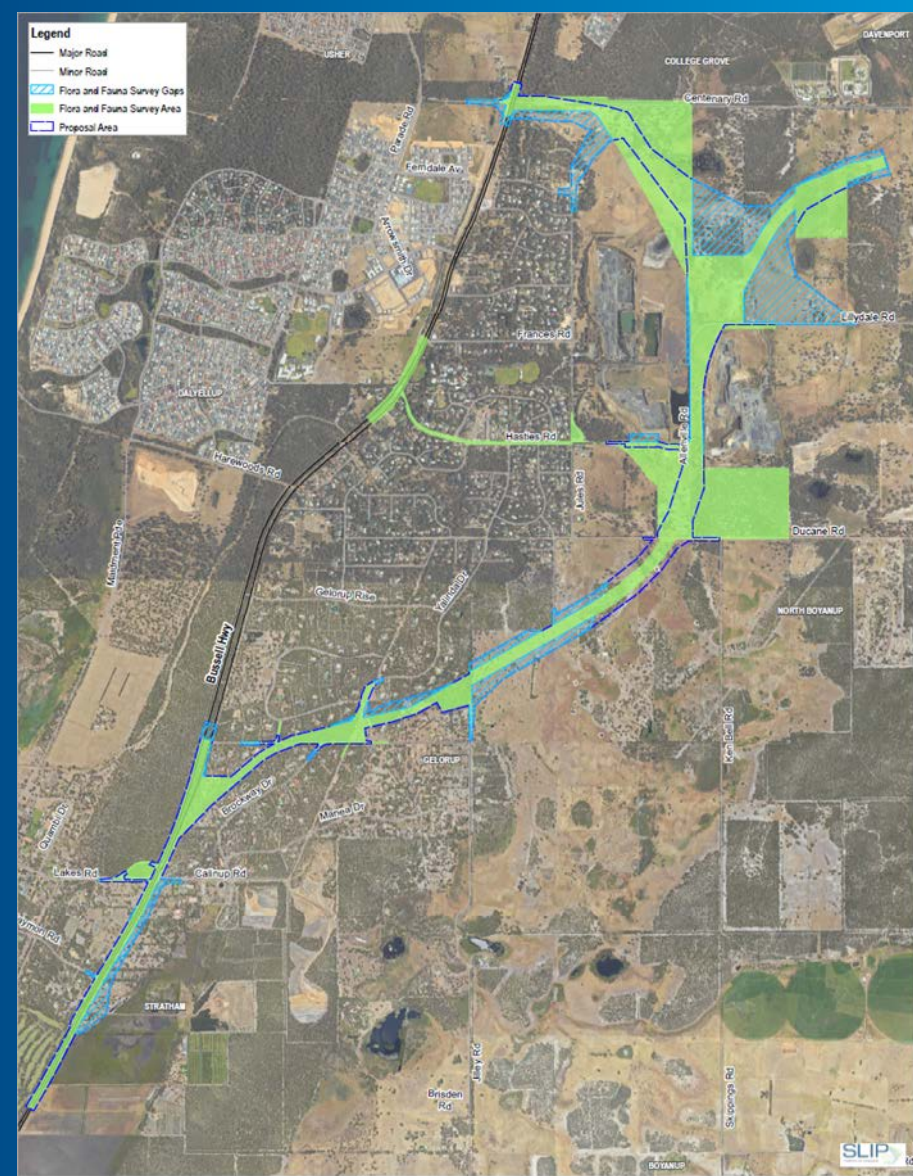
Referral presents actual and potential impacts to:

- Flora and Vegetation
- Terrestrial Fauna
- Terrestrial Environmental Qualities
- Inland waters
- Air quality
- Social Surrounds
- MNES



# Flora and Vegetation

- **300 ha Proposal Area**
  - **187 ha surveyed (62 %)**
    - 76 ha native veg (including scattered native veg and reveg)
    - 111 ha cleared / highly disturbed
  - **113 ha unsurveyed (38 %)**
    - 22 ha native veg extent)
    - 91 ha cleared / highly modified



# Flora and Vegetation

Priority Ecological Communities (DBCA) and Threatened Ecological Communities (EPBC Act)

**Within the 187 ha Surveyed –**  
**36.5 ha (019%) is the total extent of the Banksia Woodlands PEC (P3)**

- **20.8 ha** of the Banksia PEC is representative of the **Banksia Woodlands TEC (Endangered)**
- **20.7 ha** of the Banksia Woodlands TEC/PEC is representative of the **Tuart Woodlands PEC (P3)**

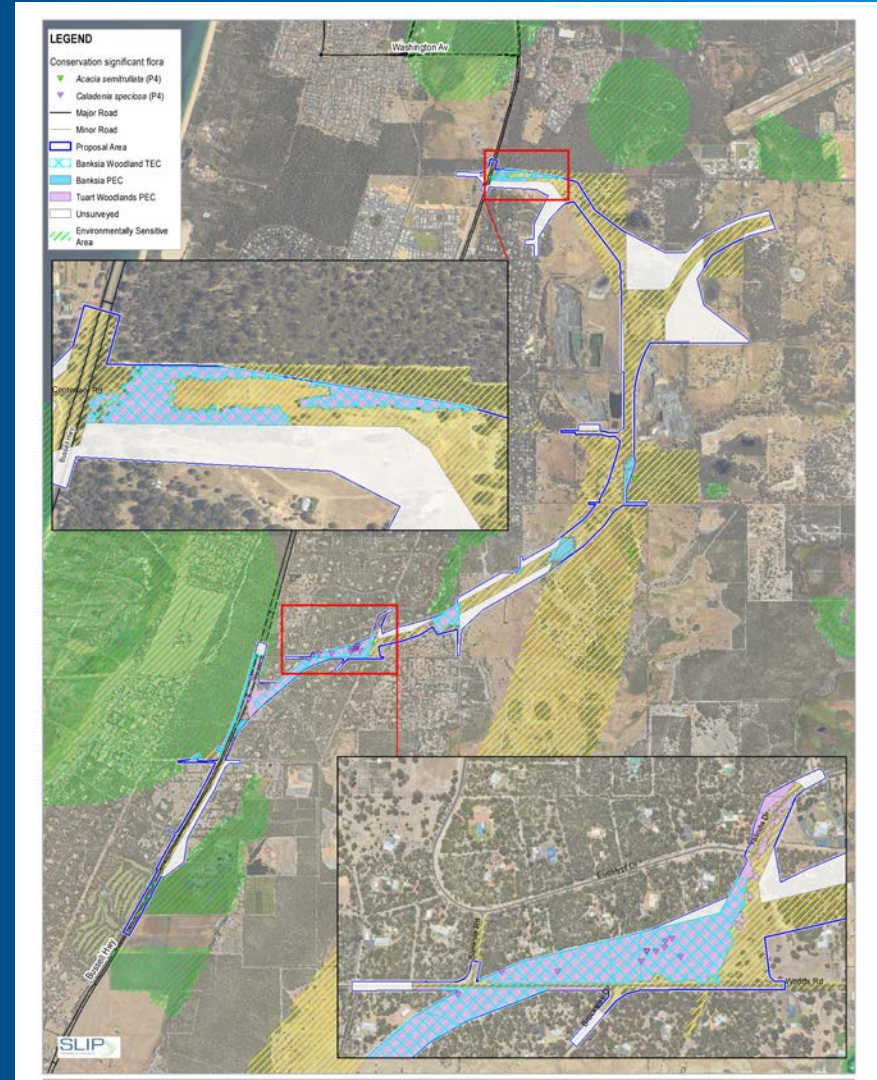
**28.6 ha is the total extent of the Tuart Woodlands PEC (P3)** (including vegetation representative of the Southern SCP Tuart–Peppermint Woodlands PEC (P3))

**Note:** The extent of the recently listed **Tuart Woodlands TEC (Critically Endangered)** within the Proposal Area has not been quantified. This will be addressed through re-assessment of data collected to date and forthcoming, targeted field surveys.

Conservation significant flora

**Known or likely to occur within the 187 ha Surveyed–**

- *Caladenia speciosa* (P4) recorded
- *Acacia semitrullata* (P4) not recorded in surveyed area
- *Aponogeton hexatepalus* (P4) not recorded in surveyed area
- *D. drummondii* (MNES) not recorded in surveyed area
- *D. elastica* (Endangered MNES) not recorded in surveyed area
- *D. micrantha* (Vulnerable MNES) not recorded in surveyed area



# Fauna

## CONSERVATION SIGNIFICANT FAUNA AND HABITAT

### Fauna habitat

**Six fauna habitat types were identified in the Survey Area**

Majority of Proposal Area (67 %) is Cleared land and Highly modified land, including previously constructed roads.

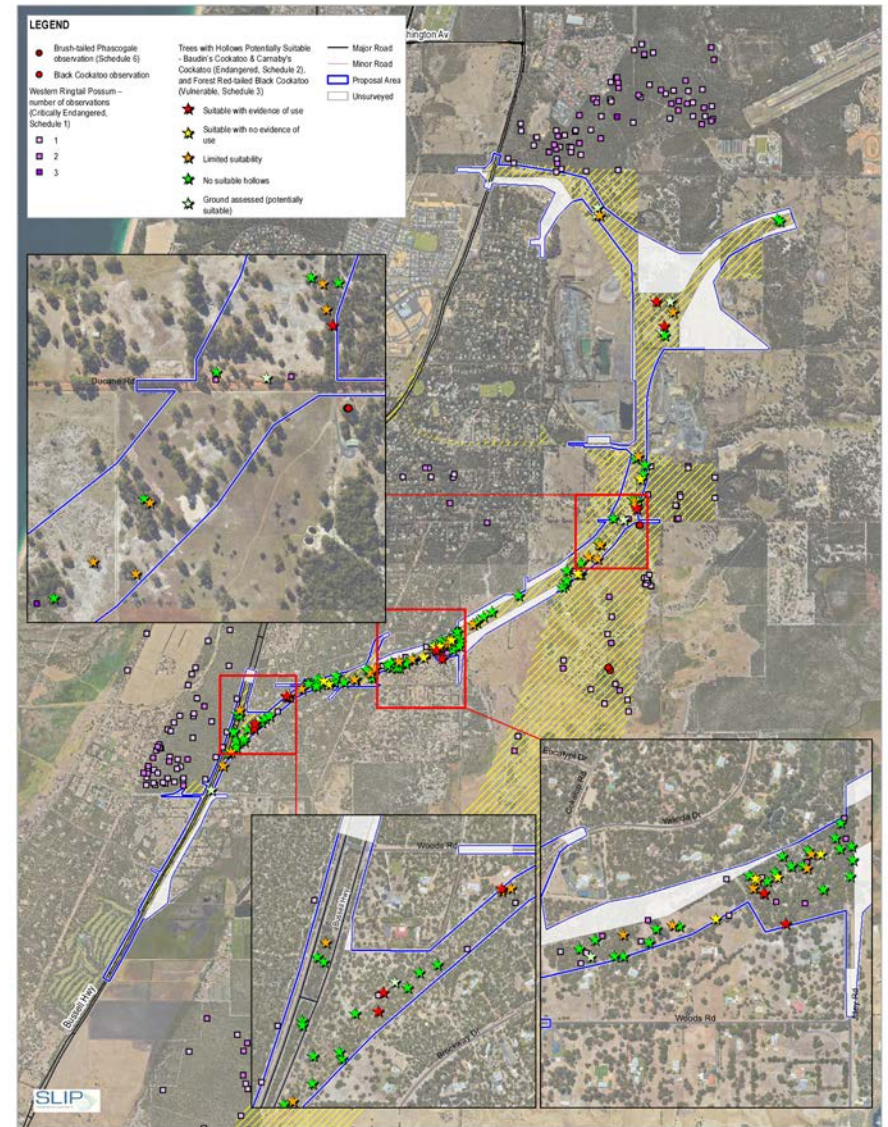
### Black Cockatoos

Within Proposal Area: 79.4 ha foraging habitat, i.e. 59.4 ha surveyed; 20 ha (estimate) in unsurveyed areas

Within vegetated areas surveyed(76 ha), 538 potential breeding trees (DBH >500 mm) were recorded

### Western Ringtail Possum

Within Proposal Area: 79.4 ha foraging and breeding habitat, i.e. 59.4 ha surveyed; 20 ha (estimate) in unsurveyed areas.





# Fauna

## CONSERVATION SIGNIFICANT FAUNA AND HABITAT

**Southern Brown Bandicoot, Quenda**

Evidence of Quenda recorded, i.e. diggings (76 ha in Survey Area; 22 ha (estimate) in unsurveyed areas)

**South-western Brush-tailed Phascogale, Wambenger**

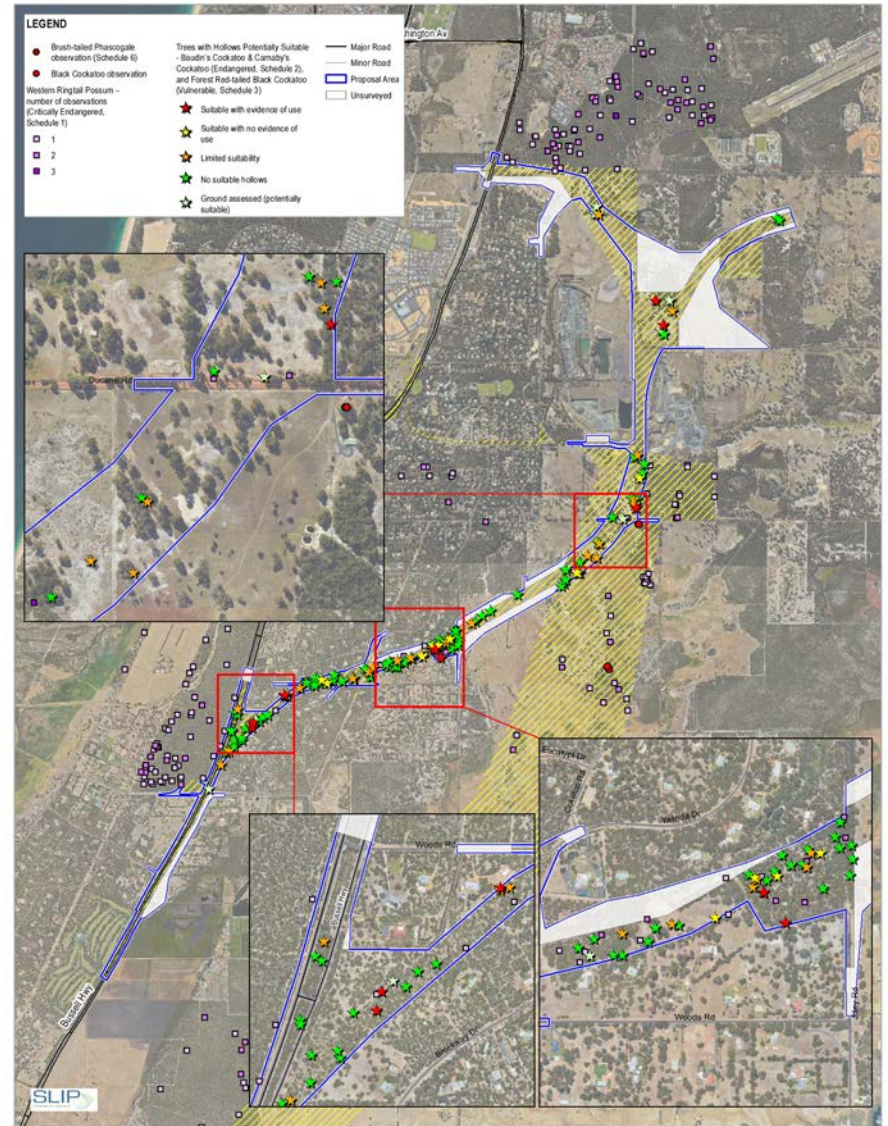
No individuals observed in Survey Area (six were recorded in close proximity) (42.6 ha in within Survey Area; 20 ha (estimate) in unsurveyed areas)

**Black-stripe Minnow**

None recorded within Proposal Area  
Recorded in wetland habitats within 5 km buffer of Proposal Area

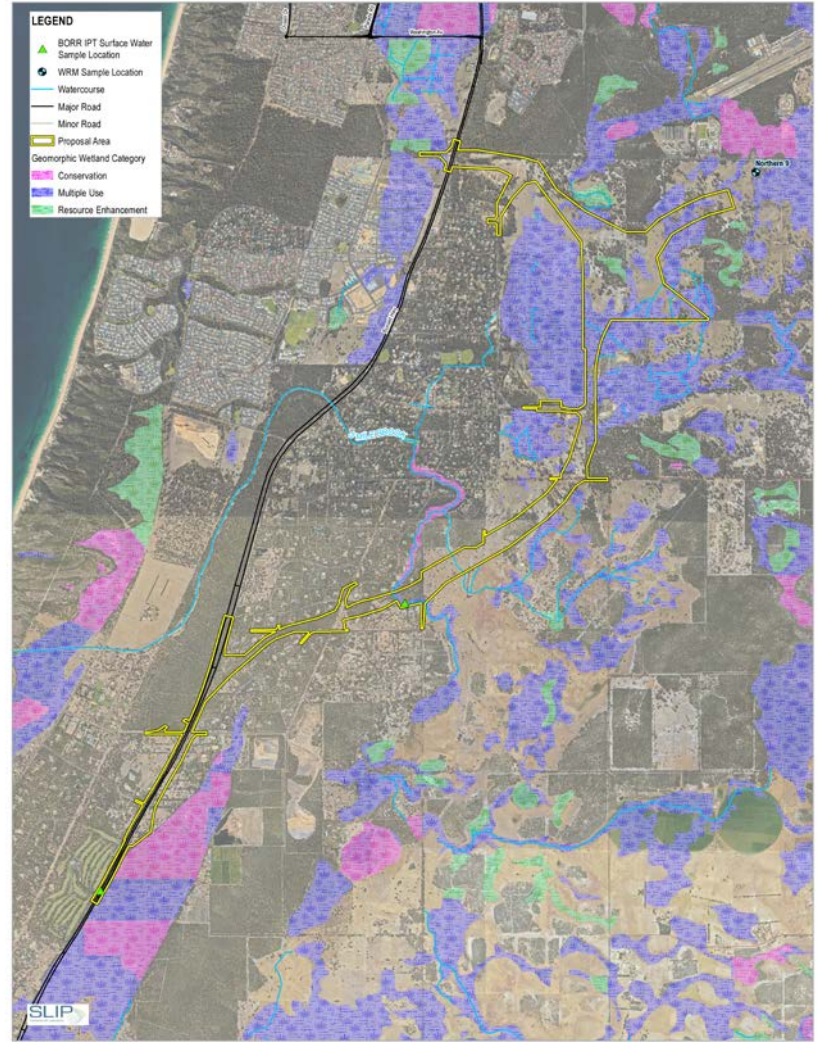
**South-Western Snake-necked Turtle**

Recorded within Proposal Area



# Inland Waters

Aspect	Within Proposal Area
<b>Geomorphic Wetlands</b>	
Conservation Category	0.1 ha (less than 0.05 %) (within proposal area)
Resource Enhancement	3.5 ha (1 %) (within proposal area)
Multiple Use	60 ha (20 %) (within proposal area)
Unassessed wetlands	0.5 ha (less than 0.2 %) (within proposal area)
<b>Waterways</b>	
Rivers	<ul style="list-style-type: none"> <li>No rivers proclaimed under the RIWI Act</li> <li>Several minor drainage lines (not proclaimed under the RIWI Act) including Five Mile Brook</li> </ul>



# Social Surrounds

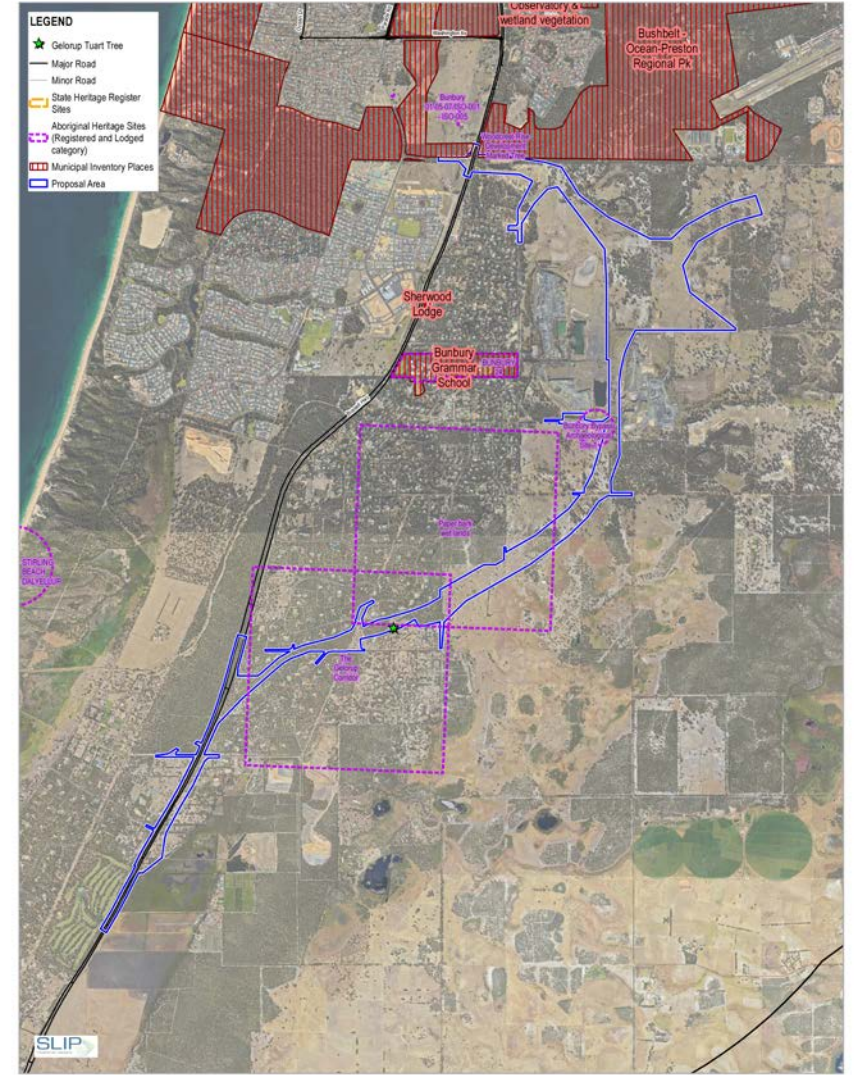
## ABORIGINAL AND EUROPEAN HERITAGE ASPECTS

### Aboriginal Heritage

ILUA	Proposal occurs within the GKB People ILUA area
Registered Sites	<ul style="list-style-type: none"> <li>No World Heritage Properties or Commonwealth Heritage Places within 10 km of Proposal Area</li> </ul>
Other Heritage Places	<ul style="list-style-type: none"> <li>Place ID 18884 Bunbury Bypass Archaeological Site 1 – Artefact Scatter</li> <li>Place ID 37869 Paper bark wetlands – Modified Tree, Birth Place, Hunting Place, Water Source</li> <li>Place ID 37870 The Gelorup Corridor – Artefacts / Scatter, Ceremonial, Skeletal Material, Burial</li> </ul>

### European Heritage

State Heritage Sites	The Tuart Tree, Gelorup (adopted December 2018)
Municipal Inventory	There are no registered State Heritage sites located within the Proposal area (six are located within 2 km)



# Studies planned for the assessment phase

## Terrestrial Flora and Vegetation

- Level 2 survey in untargeted areas
- Targeted species search
- MNES assessment (Banksia and Tuart TEC)
- Dieback assessment

## Terrestrial and aquatic fauna

- Level 1 fauna survey in unsurveyed areas
- Aquatic fauna surveys in wetlands (Black stripe minnow and Carters Freshwater mussel)
- Targeted survey for potentially active hollows
- WRP survey in areas surveyed in 2018.

## Terrestrial Environmental Quality

- ASS investigation and Management Plan
- Desktop assessment for contaminated sites risk assessment



# Studies planned for the assessment phase

## **Inland waters**

- Wetland qualities and function to be assessed
- Groundwater and surface water quality
- Ground water and Surface Water interactions

## **Air quality**

- Air quality modelling to be completed for the Proposal Area

## **Social Surrounds**

- Noise monitoring underway
- Noise modelling
- Aboriginal heritage survey
- Visual Impact Amenity including light spill



# Environmental Approval Process

Martine Scheltema

# Environmental Assessment Process

- Step 1 of the environmental approval process.
- Target date for environmental referral is the end of August.
- Main Roads and the BORR team will inform CRG members when the project is referred.
- EPA and DotEE control when the public comment period opens, please watch out for this. Typically within 7 days of referral.
- Public comment period is for 7 days at the state level and 28 Days at the federal level, we do not control these.

A blurred image of a white truck with blue and red accents driving under a concrete bridge. The truck is moving from left to right, creating a sense of motion. The bridge structure is made of concrete and has several support pillars. The background is a bright, overcast sky.

# Community and Stakeholder Engagement

Gemma Bertrand



## Upcoming Activities

- Community Reference Group Meeting (Northern and Central) – 12<sup>th</sup> August
- Community Drop in Session – 22<sup>nd</sup> August (Gelorup Hall)
  - 4.00pm to 7.30pm
- Notification on Southern environmental referral

A blurred image of a white truck with blue and red accents driving under a concrete bridge structure. The truck is moving from left to right, creating a sense of motion. The bridge structure is made of large concrete beams and pillars. The background is a bright blue sky.

# CRG Member Round table

A blurred image of a truck driving under a bridge, with a blue overlay on the right side containing the text 'Next Steps'.

# Next Steps