

# Native Vegetation Clearing Referral Supporting Documentation

Elliot Road / Paltara Way, Wanneroo – Traffic  
Calming Treatment

May 2026

# Document Control

Revision	Author	Date
Template		
Revision 1		

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# 1 Introduction

The City of Wanneroo ('the City') is proposing to clear 0.0157 hectares (ha) at the intersection of Elliot Road and Paltara Way, Wanneroo in order to implement traffic calming treatments and pedestrian infrastructure ('the Project'). These works seek to upgrade the intersection to meet Australian standards to increase safety for pedestrians, drivers, and cyclists using the area. The scope of works associated with the project which requires the clearing of 0.0157 ha will include:

- Construction of roundabout
- Installation of pre-deflections on Elliot Road and Paltara Way
- Installation of median islands
- Upgrade existing streetlights
- Upgrade of drainage infrastructure
- Upgrade of concrete footpaths

The three (3) trees the City is proposing to clear include one (1) *Allocasuarina fraseriana* and two (2) *Eucalyptus marginata* within the road reserve as shown in Figure 1 below (refer to 2. Clearing Plan attachment for further details)



Figure 1 - Location of proposed clearing at intersection of Elliot Rd and Paltara Way, Wanneroo

This supporting document is being submitted by the City to assist Department of Water and Environmental Regulation's (DWER) in the determining if the proposed clearing is exempt from requiring a clearing permit under the *Environmental Protection Act 1986* (EP Act).

The Environmental Planning Consideration Report (EPCR) and Desktop Assessment Report for Native Vegetation Clearing NVC Application Report generated by the City to inform this supporting document have been included as Appendix 1 and Appendix 2 respectively.

The *Guideline: Native vegetation clearing referrals* (DWER, 2021) and *Form: NV-F01 Application for new permit or referral form* (DWER, 2024) was used to inform the content covered within this supporting document.

## 2 Avoidance and Mitigation

### 2.1 Avoidance Details

#### 2.1.1 Retention of vegetation on property

Five (5) trees were originally proposed to be impacted to facilitate these works (see Figure 2-A). An arborist assessment was undertaken to evaluate the health, retention value, and potential mitigation options of seven (7) trees within or in proximity to the proposed works (refer to 5. Arborist Report attachment for further details). The arborist assessment determined the five (5) trees originally proposed to be cleared or impacted to an extent which may result in the death of the trees (clearing), were either of moderate or high retention value.

In April last year, the City revised the design to avoid the impact to one (1) of the high retention value trees ('T5' in the 5. Arborist Report attachment), reducing the clearing to four (4) trees.

In January this year, the City further revised the design by removing the proposed widening from the works in order to increase the avoidance of two (2) ('T5' and 'T7' in the 5. Arborist Report attachment) of the original five (5) trees proposed to be cleared. The remaining three (3) trees within the Project design were not able to be avoided due to pedestrian, road, and traffic calming infrastructure design standards and safety requirements (refer to the 2. Clearing Plan attachment for further details).

The changes made to retain vegetation as depicted by versions of Construction Plans and Clearing Plans is depicted in Figures 2-A to 2-C below.

PREVIOUS VERSION – NOT IN USE

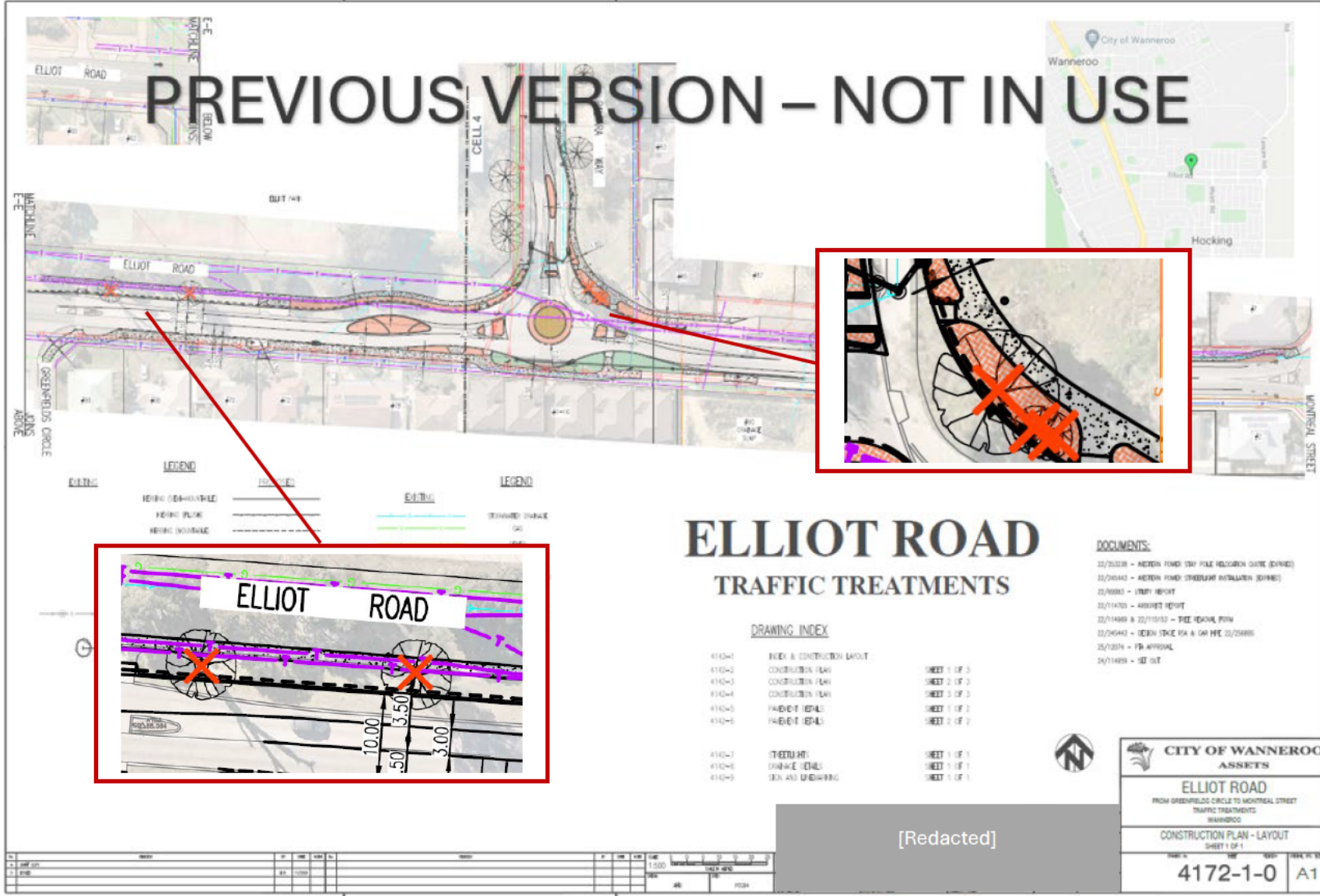


Figure 2-A Previous version of construction plan (January 2025) with insets of the plan to show the five (5) trees originally proposed to be cleared.

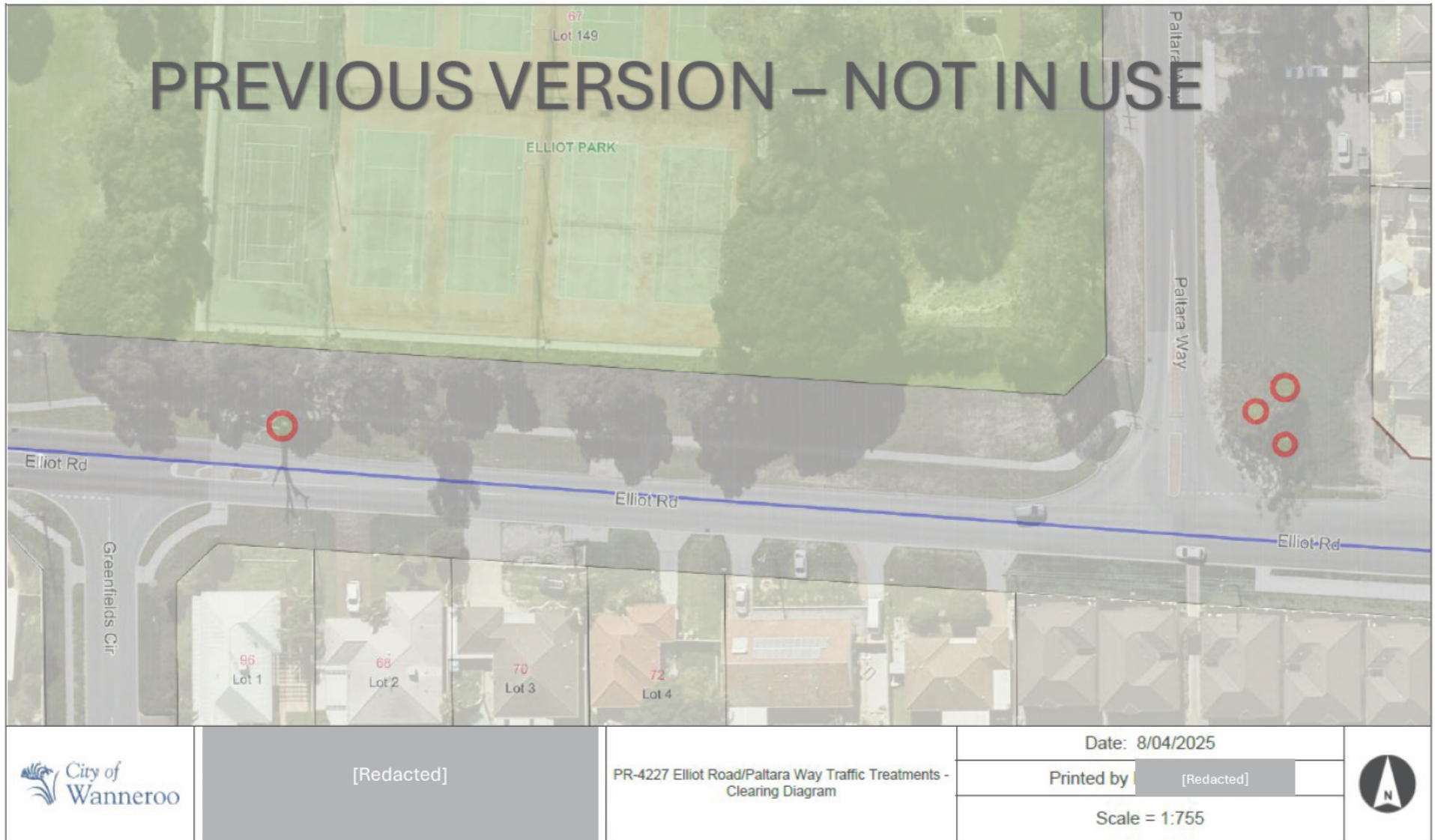
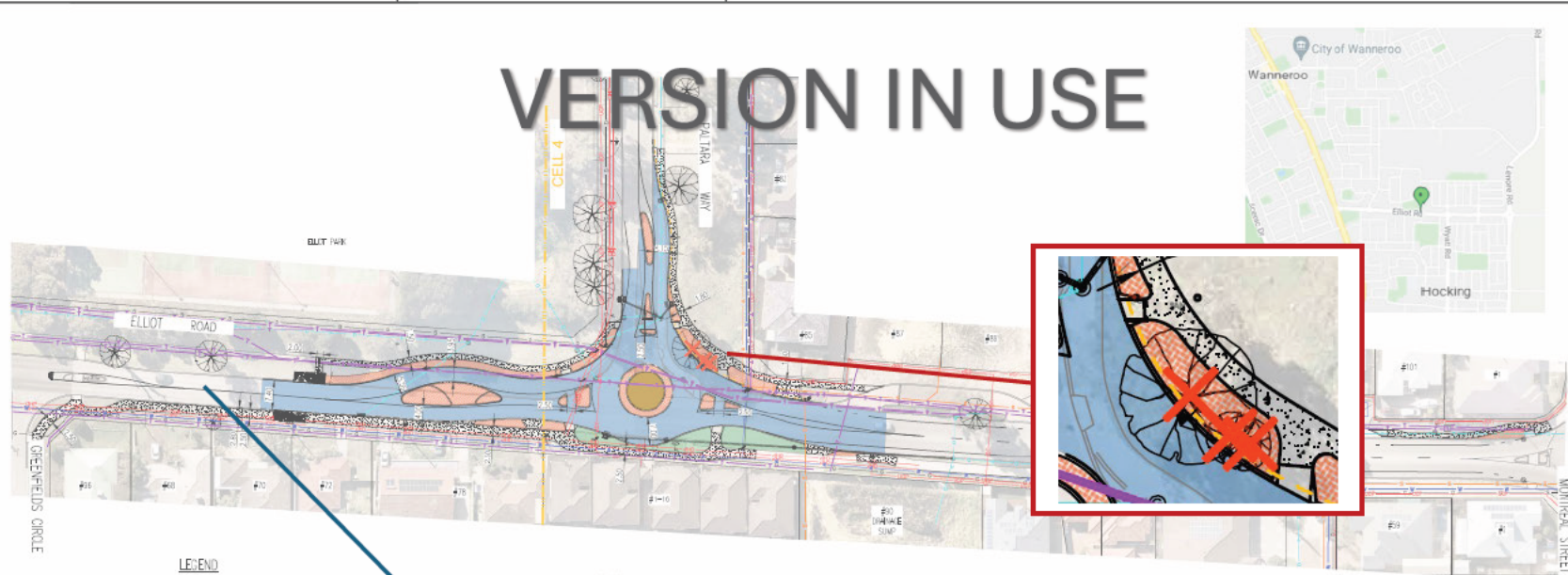
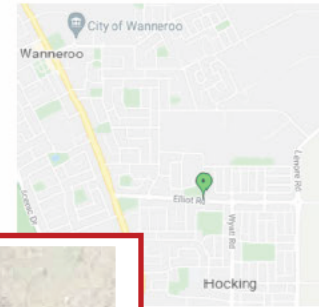
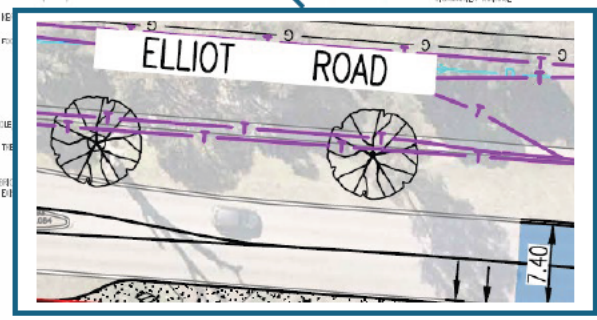


Figure 2-B Previous version of a draft clearing plan (April 2025) showing four (4) trees proposed to be cleared.

# VERSION IN USE



LEGEND		LEGEND	
EXISTING	PROPOSED	EXISTING	PROPOSED
KEENING (SEMI-MOUNTAIN)		TOURNAI (PARK)	
ROAD (PARK)			



## ELLIOT ROAD TRAFFIC TREATMENTS

DRAWING INDEX	
4142-1	INDEX & CONSTRUCTION LAYOUT
4142-2	CONSTRUCTION PLAN
4142-3	CONSTRUCTION PLAN
4142-4	CONSTRUCTION PLAN
4142-5	PAVEMENT DETAILS
4142-6	PAVEMENT DETAILS
4142-7	STREETLIGHT
4142-8	STREETLIGHT DETAILS
4142-9	SEAL AND LEAKING

SHEET 1 OF 3
SHEET 2 OF 3
SHEET 3 OF 3
SHEET 1 OF 2
SHEET 2 OF 2
SHEET 1 OF 1
SHEET 1 OF 1
SHEET 1 OF 1

- DOCUMENTS:**
- 22/25328 - WESTON POWER STAY POLE RELIABILITY GUIDE (DWPED)
  - 22/24543 - WESTON POWER STREETLIGHT INSTALLATION (DWPED)
  - 22/6983 - UTILITY REPORT
  - 22/11426 - ARBORIST REPORT
  - 22/11489 & 22/11553 - TREE REMOVAL FORM
  - 22/24543 - DESIGN STAGE RSA & CAR WFE 22/25885
  - 25/1204 - PDA APPROVAL
  - 24/11488 - SET OUT



**CITY OF WANNEROO  
ASSETS**

**ELLIOT ROAD**  
FROM GREENFIELDS CIRCLE TO MONTREAL STREET  
TRAFFIC TREATMENTS  
WANNEROO

CONSTRUCTION PLAN - LAYOUT  
SHEET 1 OF 1

4172-1-3 A1

[Redacted]

NO.	REVISION	DATE	BY	CHKD.	APP.	DESCRIPTION
1	ISSUE FOR PERMIT	18/01/2024	J.P.	J.P.	J.P.	ISSUE FOR PERMIT
2	ISSUE FOR PERMIT	18/01/2024	J.P.	J.P.	J.P.	ISSUE FOR PERMIT
3	ISSUE FOR PERMIT	18/01/2024	J.P.	J.P.	J.P.	ISSUE FOR PERMIT

Figure 2-C Current version of construction plan (January 2026) with insets of the plan to show where trees have been retained and where trees are proposed to be cleared.

The three (3) trees, consisting of one (1) *Allocasuarina fraseriana* (T2) and two (2) *Eucalyptus marginata* (T3 and T4 (deceased)), are isolated within a degraded area (refer to the 4. Site Photographs attachment) that was previously cleared and has since been maintained per its land use of a road reserve. The three (3) trees were assessed by the arborist as per the following (refer to the 5. Arborist Report attachment for further details):

- T2 (*Allocasuarina fraseriana*) – Assessed as having moderate retention values. Located within the proposed Project footprint for pedestrian, road, and traffic calming infrastructure which cannot be altered further due to design standards and safety requirements.
- T3 (*Eucalyptus marginata*) – Assessed as having high retention values. Located within the proposed Project footprint for pedestrian, road, and traffic calming infrastructure which cannot be altered further due to design standards and safety requirements.
- T4 (*Eucalyptus marginata*) (deceased) – The arborist assessment recommended the removal of this dead tree. Moreover, this tree intersects the proposed design, which cannot be reduced further due to pedestrian, road, and traffic calming infrastructure design standards and safety requirements.

## 2.2 Mitigation Details

### 2.2.1 Tree Protection Measures

Utilisation of native vegetation clearing protection fencing around vegetation being retained adjacent to the works. Moreover, an arborist will be on site when works are occurring within or close proximity to the Structural Root Zone (SRZ) of any trees adjacent to the works.

### 2.2.2 Construction Environmental Management Plan

A Construction Environmental Management Plan (CEMP) will be in place for the works. The City's CEMP will contain construction hygiene practices to be implemented during the works to prevent the spread of weeds and/or pathogens by machinery entering/leaving the site.

### 2.2.3 Landscaping

The City will landscape the Project site including planting a minimum of three (3) street trees as appropriate to road safety requirements in alignment with internal policies.

### 3 Criteria Review

To assist in determining if the proposed clearing activity is exempt from requiring a permit, a review against the criteria listed in s.51DA(4) of the EP Act has been completed as detailed below.

#### 3.1 Criterion 1: The area proposed to be cleared is small relative to the total remaining vegetation

##### 3.1.1 Extent of proposed clearing

*If more than 1 ha is proposed to be cleared, a permit is required.*

The area proposed to be cleared is 0.0157 hectares (ha).

##### 3.1.2 Threshold for remaining extent of that native vegetation association or complex in the Swan Coastal IBRA bioregion

*If less than 10% of that native vegetation association or complex is remaining within the relevant IBRA bioregion, a permit is required.*

The mapped vegetation association (Beard, 1975) within the proposed clearing area is representative of Spearwood 6 – Woodland southwest. The mapped remaining extent of the Spearwood 6 – Woodland southwest vegetation association within the Swan Coastal IBRA bioregion is 23.72% (Government of Western Australia, 2019).

##### 3.1.3 Threshold for remaining native vegetation surrounding the boundary of the proposed clearing

*If less than 10% native vegetation is remaining within a 5 km buffer of the proposed clearing, a permit is required.*

Review of the Pre-European Vegetation (DPIRD-006) dataset identified 7203.4928 ha<sup>1</sup> of native vegetation within a 5 km buffer of the proposed clearing.

As the Swan Coastal Plain and Perth-Peel Native Vegetation Extent 2024 (DWER-141) dataset identified 1560.9658 ha within a 5 km buffer of the proposed clearing, approximately 21.7% of native vegetation is remaining within a 5 km buffer of the proposed clearing.

#### 3.2 Criterion 2: There are no known or likely significant environmental values within the area

Table 1 below details the City's review of any known or likely environmental values (DWER, 2021) identified within the area of proposed clearing activities. Review utilised City generated EPCR and Desktop Assessment Report for Native Vegetation Clearing NVC Application reports. The generated reports and corresponding databases can be found in Appendix 1 and Appendix 2.

Table 1 Description of Environmental Values in Relation to Area of Proposed Clearing Activities

Environmental Value and DWER Consideration (DWER, 2021)	Description of Environmental Values in Relation to Area of Proposed Clearing Activities
<b>Vegetation condition</b> <i>The quality of the existing remnant vegetation within and nearby the area to be cleared, based on the Keighery (1994) and/or Trudgen (1988) vegetation condition scales.</i>	Two (2) of the trees proposed to be cleared, T2 and T3, were assessed to be in good condition with moderate (T2) and high (T3) retention value. The third tree proposed to be cleared, T4, was assessed to be dead and retention was not recommended (refer to the 5. Arborist Report attachment for further details).

<sup>1</sup> Areas assigned as Bare areas (Freshwater Lake) in the Pre-European Vegetation (DPIRD-006) dataset were removed from calculation of native vegetation within a 5 km buffer of the proposed clearing.

Environmental Value and DWER Consideration (DWER, 2021)	Description of Environmental Values in Relation to Area of Proposed Clearing Activities
	<p>The area of proposed clearing activities includes the three (3) trees isolated within a cleared road reserve (refer to 4. Site Photographs attachment). The existing cleared area surrounding the proposed clearing is in a degraded condition (predominantly weed species) which has been maintained to preserve visibility within the road reserve (refer to the 4. Site Photographs and 5. Arborist Report attachments for further details).</p>
<p><b>Significant fauna</b> <i>Whether the proposed clearing area provides habitat for any threatened, priority, or specially protected fauna.</i></p>	<p>Department of Biodiversity, Conservation and Attractions (DBCA) threatened or priority fauna records were not identified within or directly adjacent to the area of proposed clearing activities.</p> <p>No mapped confirmed/unconfirmed Carnaby's Cockatoo Habitat (breeding, feeding, or roosting) was identified within the area of proposed clearing activities. While the City generated Desktop Assessment for Native Vegetation Clearing NVC Application Report identified 0.016 ha of Confirmed / Unconfirmed Roost Sites 6km Buffer mapped within the area of proposed clearing (refer to Appendix 2 for further details), it is unlikely the proposed clearing activities would impact on the 6 km buffer potential feeding habitat around these Confirmed / Unconfirmed Roost Sites.</p> <p>While two (2) of the trees (T2 and T3) are of the diameter at breast height (DBH) suitable for nesting hollows per the Department of Agriculture, Water and the Environment (DAWE) <i>Referral guideline for 3 WA threatened black cockatoo species: Carnaby's Cockatoo, Baudin's Cockatoo and the Forest Red-tailed Black-cockatoo</i> (2022), the arborist survey did not identify presence of hollows for any of the three (3) trees proposed to be cleared (refer to the 5. Arborist Report attachment for further details).</p> <p>Given the three (3) trees proposed to be cleared are isolated without mid or understory vegetation and located on a road reserve within a built-up residential area frequently exposed to disturbances such as pedestrian and vehicle traffic; it is unlikely the proposed clearing area provides habitat for any threatened, priority, or specially protected fauna.</p>
<p><b>Fauna habitat</b> <i>Whether the proposed clearing area provides critical habitat for fauna.</i></p>	<p>The arborist survey did not identify presence of hollows within trees proposed to be cleared (refer to the 5. Arborist Report attachment for further details).</p> <p>Given the three (3) trees proposed to be cleared are isolated without mid or understory vegetation and located on a road reserve within a built-up residential area frequently exposed to disturbances such as pedestrian and vehicle traffic; it is unlikely the area of proposed clearing is critical habitat given the proximity to similar or more densely vegetated areas.</p>
<p><b>Significant ecological linkage</b></p>	<p>Significant ecological linkages were not identified within the area of proposed clearing activities.</p>

<b>Environmental Value and DWER Consideration (DWER, 2021)</b>	<b>Description of Environmental Values in Relation to Area of Proposed Clearing Activities</b>
<i>Whether the proposed clearing is part of a significant ecological linkage.</i>	
<b>Mapped ecological community</b> <i>The proximity of the proposed clearing to any threatened ecological communities or priority ecological communities</i>	DBCA records of threatened or priority ecological communities were not identified within the area of proposed clearing activities.
<b>Significant flora</b> <i>The proximity of the proposed clearing to any records of threatened or priority flora.</i>	DBCA/WA Herbarium threatened or priority flora records were not identified within or directly adjacent to the area of proposed clearing activities. While there are known records of threatened or priority flora within 5 kilometres of the area of proposed clearing activities, the proposed clearing is unlikely to impact these occurrences of significant flora.
<b>Mapped wetland</b> <i>The proximity of the proposed clearing to any wetlands listed under the Convention on Wetlands of International Importance (Ramsar Convention) or the Directory of Important Wetlands in Australia, or wetlands classified as 'conservation category' or 'resource enhancement'.</i>	Wetlands (Ramsar, Directory of Important Wetlands in Australia, conservation category or resource enhancement) were not identified within the area of proposed clearing activities.
<b>Mapped watercourse</b> <i>Whether the proposed clearing may impact on a watercourse (e.g. the structural stability of a watercourse or deterioration of water quality).</i>	Mapped watercourses were not identified within the area of proposed clearing activities.
<b>Water resources (e.g. public drinking water supply areas)</b> <i>Whether the clearing is in an area with high risk of decreasing water quality, rising groundwater levels, or increasing salinity.</i>	The proposed clearing is located within the RIWI Act Perth Groundwater Area. However, as the proposed clearing of 0.0157 ha is for 2 living trees (1 dead) located within a pre-existing cleared area, and the works do not include dewatering, it is unlikely the proposed clearing will have significant impact to water resources.
<b>Conservation reserve</b> <i>Whether the proposed clearing is within a 'conservation reserve' (e.g. Bush Forever; Environmental Protection Policy areas; land managed by the Department of Biodiversity, Conservation and Attractions; Regional Open Spaces; crown reserves vested for conservation purposes).</i>	The proposed clearing is located within a road reserve. The area of proposed clearing is not within or adjacent to a conservation reserve as described as an environmental value within the 'Considerations used to determine if a permit is required' in the <i>Guideline: Native vegetation clearing referrals</i> (DWER, 2021).
<b>Land and soil quality</b> <i>Whether the clearing is in an area with high risk of land and/or soil degradation. Factors to determine this may include (among other matters) contaminated sites records, risk of dieback disease or</i>	A search of the Contaminated Sites Database on 07/05/2026 determined there were no records of contaminated sites in or within a 1 km buffer of the area of proposed clearing activities (DWER, 2026). The City generated EPCR and Desktop Assessment Report for Native Vegetation Clearing NVC Application Report did not identify the area of proposed clearing as

Environmental Value and DWER Consideration (DWER, 2021)	Description of Environmental Values in Relation to Area of Proposed Clearing Activities
<i>acid sulfate soils, and susceptibility to erosion.</i>	<p>containing mapped risk of acid sulfate soil (refer to Appendix 1 and Appendix 2 for further details).</p> <p>The Arborist identified evidence of previous minor canopy dieback in one (1) of the <i>Eucalyptus marginata</i> (T3) trees being proposed to be cleared. The City's CEMP will contain construction hygiene practices to be implemented during the works to prevent the spread of weeds and/or pathogens by machinery entering/ leaving the site.</p>
<p><b>Heritage-related values and native title matters</b>  <i>Proximity to heritage-related values, including sites of Aboriginal significance, and native title matters.</i></p>	<p>A search of the Department of Planning, Lands and Heritage (DPLH) Aboriginal Cultural Heritage Information System (ACHIS) search was conducted on 17/04/2026 (DPLH, 2026). The search and generated report did not identify records of Registered Aboriginal Cultural Heritage Sites within the area of proposed clearing activities.</p>

### 3.3 Criterion 3: The state of scientific knowledge of native vegetation within the region is adequate

The proposed clearing is located within a populated residential area within the Perth metropolitan area. Situated on the Swan Coastal Plain there have been extensive biological surveys within the region. Nearby locations in which the City has procured flora and vegetation biological surveys and uploaded to the Index of Surveys for Assessments (ISA) include:

- Badgerup Reseve, Wanneroo
- Franklin Park, Wanneroo
- Lot 24 Mary Street, Wanneroo
- Landsdale Park, Darch
- Benmuni Park, Wanneroo

### 3.4 Criterion 4: Conditions will not be required to manage environmental impacts

Given the 0.0157 ha area proposed to be cleared is small relative to the total remaining native vegetation association in the Swan Coastal IBRA bioregion and the remaining native vegetation within a 5 km buffer of the proposed clearing; contains no known or likely significant environmental values, is located within a region of adequate native vegetation scientific knowledge, and has proposed mitigation measures in place, it is unlikely that conditions will be required to manage environmental impacts.

## 4 References

- Beard, J. S. (1975). The vegetation survey of Western Australia. *Plant Ecology*, 179-187.
- DAWE. (2022). *Referral guideline for 3 WA threatened black cockatoo species: Carnaby's Cockatoo, Baudin's Cockatoo and the Forest Red-tailed Black-cockatoo*. Canberra: Department of Agriculture, Water and the Environment. Retrieved from <https://www.dcceew.gov.au/sites/default/files/documents/referral-guideline-3-wa-threatened-black-cockatoo-species-2022.pdf>
- DPLH. (2026). *Aboriginal Cultural Heritage Inquiry System*. Retrieved from <https://espatial.dplh.wa.gov.au/ACHIS/index.html?viewer=ACHIS>
- DWER. (2021). *Guideline: Native vegetation clearing referrals*. Joondalup, Western Australia: Department of Water and Environmental Regulation.
- DWER. (2024). *Form: NV-F01 Application for new permit or referral form*. Joondalup, Western Australia: Department of Water and Environmental Regulation.
- DWER. (2026). *Contaminated Sites Database*. Retrieved from <https://dow.maps.arcgis.com/apps/webappviewer/index.html?id=c2ecb74291ae4da2ac32c441819c6d47>
- Government of Western Australia. (2019). *2018 Statewide Vegetation Statistics - Full Report*. Retrieved from <https://catalogue.data.wa.gov.au>

# Appendix 1 - Environmental Planning Consideration Report

# City of Wanneroo

## Environmental Planning Considerations Report (EPC)



Based on data supplied by WALGA and Landgate



©Western Australian Land Information Authority (2020):  
Cadastral/Property boundaries  
Hydrography lines  
Crown Reserves

Reports are generated only for datasets covering the selected area. Absence of threatened flora, fauna and ecological communities' records within a selected area does not necessarily mean those features are not present. See further information on how to interpret the datasets in the Explanatory Notes.

## Acknowledgement

This report and the application it is produced from is based on the discontinued WALGA Environmental Planning Tool developed by Fluffy Software.

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### 3 Summary

If any of the listed matters are mapped in or within a defined buffer of the selected area read corresponding section in this report for details or seek further advice.

'No data' status indicates there is no data recorded in the system and shall not be interpreted as absence of the reported environmental matter. Confirmation may require field survey.

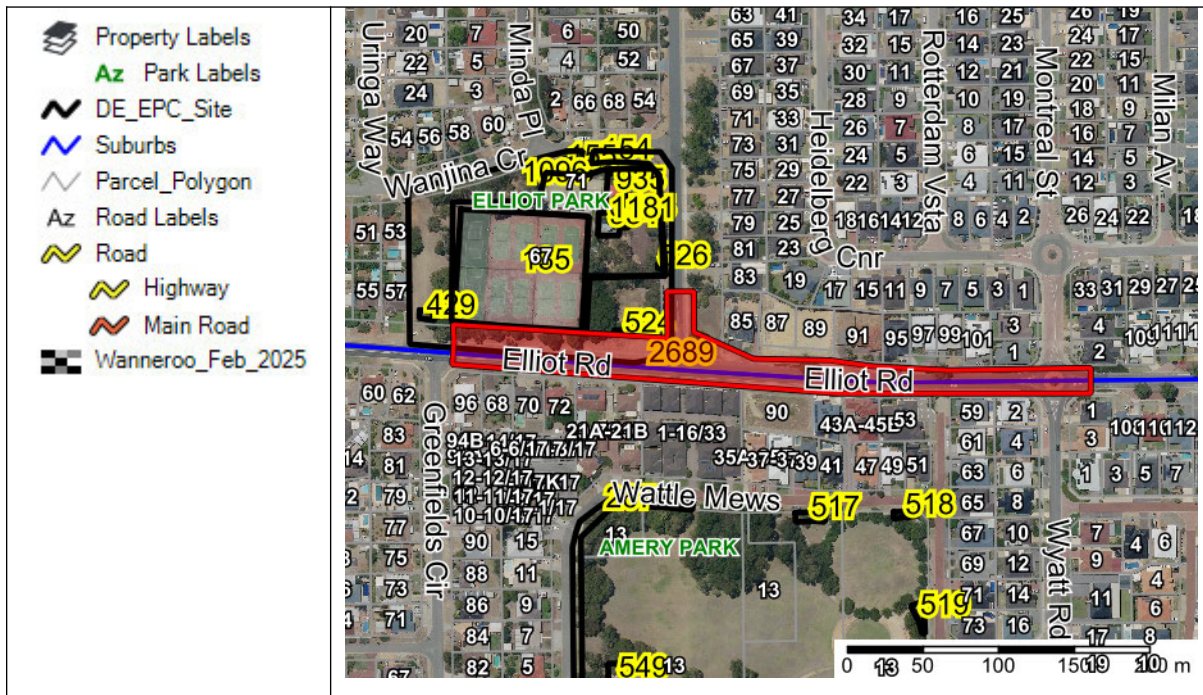
<b>Environmental Matters Requiring Further Investigation</b>	<b>Status</b>	<b>See section</b>
EPC Site ID	2689	3.1
Selected Area in Hectare (ha) or square meters (m <sup>2</sup> )	9881.24 m <sup>2</sup>	3.1
Federal and State Offsets	No Data	3.9
Environmentally Sensitive Area *	No Data	5.2
Native Vegetation **	No Data	4.2.2
Threatened Ecological Communities	Yes	4.1.4
Threatened or Priority Flora within selected area	No Data	4.1.1
Threatened or Priority Flora within 5km Buffer	Yes	4.1.1
WAHerb Threatened or Priority Flora within selected area	No Data	4.1.2
WAHerb Threatened or Priority Flora within 5km Buffer	Yes	4.1.2
Threatened or Priority Fauna within selected area	No Data	4.1.3
Threatened or Priority Fauna within 5km Buffer	Yes	4.1.3
Mapped as potential fauna habitat	Yes	4.1.6 – 4.1.8
Geomorphic Wetland	No Data	4.3
Ecological Linkages	No Data	4.5
Adjoining a conservation area (DBCA managed)	No Data	10.3 & 10.5
<b>Environmental Policy and other relevant matters</b>	<b>Status</b>	<b>See section</b>
Acid Sulfate Soils	No Data	7.7
Public Drinking Water Source Area	No Data	11.2
RIWI Groundwater/ Surface Areas	Perth Groundwater Areas	11.4
Bush Forever	No Data	10.3
Regional Park	No Data	10.4
Aboriginal Cultural Heritage	See Section 7.11.1 for action item'	7.11.1
Heritage –State (State Identified)		7.11.2
Heritage – Local (COW Identified)		7.11.3
Contaminated Site	No Data	7.12
Bushfire Prone Areas	No Data	7.13
CHRMAP Polygon	No Data	8.2
Karst	Low	8.3
Unexploded Ordnance (UXO)	No Data	8.4
<b>Local Government Specific Information</b>	<b>Status</b>	<b>See section</b>
Local Biodiversity Strategy		8.1
Intersected Cadastre Lots		3.2
Address of Intersected Lots		3.2

\* No exemptions for clearing of native vegetation apply.

\*\* Note vegetation extent mapping does not show small patches, some wetlands and native trees. Confirm presence/absence via aerial photography or site visit.

### 3.1 Site and Area

Calculated area of Site 2689 is 9881.24 m<sup>2</sup>.



### 3.2 Intersected Cadastre Lots

The polygon of the EPC site intersects the below listed cadastre lots.

Lot: 1 DP: 49478, Lot: 149 DP: 190803

85 Elliot Road WANNEROO, 67 Wanjina Crescent WANNEROO

### 3.8 Services Trails

The site is near DBCA Services trails.

**The selected area is within 50m of the following track and trail types:**

No Data

### 3.9 Federal and State Offset Sites

If State and/or Federal Offset Sites are found within the project area, please consult with EAO/EAPs before progressing with the planning of this project or await the EMA advice to be provided. Federal and State Offset Sites have significant conditions and limitations on land use and clearing activities. Failing to comply with these conditions can result in significant penalties.

The information provided in Section 3.9.1 has been collated by thoroughly reviewing historical records contained in the City of Wanneroo’s current Content Manager Systems as well as the former Content Manager System (PowerDocs). This dataset encompasses both historical Offset Sites and additional locations that may not be readily accessible in other publicly available records.

The information provided in Section 3.9.2 is extracted from the “Referrals Spatial Database – Public” spatial database provided by the of Department of Agriculture, Water and the Environment at

<http://www.environment.gov.au/fed/catalog/search/resource/details.page?uuid=%7BC65F30AC-CD38-4EC6-BD62-2A0D37C661EE%7D>. This dataset includes locations and details of referrals submitted to the Department under the Environment Protection and Biodiversity Conservation (EPBC Act) 1999.

The information in Section 3.9.3 is extracted from the “Offsets Register - Offsets (DWER-078)” spatial database provided by the Department of Water and Environmental Regulations at <https://catalogue.data.wa.gov.au/dataset/offsets-register-offsets>. This dataset includes all environmental offsets required under Part IV and Part V of the Environmental Protection Act since 1 July 2011. It provides spatial data on environmental offsets conditioned for the projects in Western Australia through the Environmental Protection Act 1986 approvals processes.

The information in Section 3.9.4 is extracted from the “Clearing Instruments Conditions (Areas Subject to Conditions) (DWER-077)” spatial database provided by the Department of Water and Environmental Regulations at

<https://catalogue.data.wa.gov.au/en/dataset/clearing-instruments-conditions>. This dataset includes locations and details of areas subject to conditions under a clearing permit granted under the Environmental Protection Act 1986. Data captured represents the land clearing areas where conditions may apply, including offset sites.

#### 3.9.1 State And/Or Federal Offset Sites – City’s Historical Records

This selected area is within the following State and/or Federal Offset Site:

State And Federal Offset Sites	
EPBC Decision	No Data
EPBC Decision HPE PowerDoc	No Data
Offset Name	No Data

Clearing Permit Number	No Data
Clearing Permit HPE PowerDoc	No Data
Other References	No Data
Management Plan	No Data
Landscaping Drawings	No Data
Additional Information	No Data
Federal Government Web Site	No Data
State Government Web Site	No Data

### 3.9.2 Federal Offset Sites – EPBC Referrals

This selected area is within the following Federal Offset Site:

<b>EPBC Spatial Referrals Public</b>	
Reference	No Data
Project Name	No Data
Referral Decision	No Data
Status Decision	No Data
Stage Name	No Data
Year	No Data
URL EPBC Spatial Referrals Public	<a href="#">No Data</a>

### 3.9.3 State Offset Sites – DWER Offset Register

This selected area is within the following State Offset Site:

<b>SLIP Clearing Conditions DWER 077</b>	
Clearing Permit Number	No Data
Permit Status	No Data
Permit Proponent	No Data
Permit Assessment Criteria	No Data
Clearing Impact	No Data
Offset Type	No Data
Offset Rationale	No Data
Offset Second Argument	No Data
Decision Date	No Data

### 3.9.4 State Offset Sites – DWER Clearing Subject to Conditions

This selected area is within the following State Offset Site:

<b>Offsets Register Offsets DWER 078</b>	
Clearing Permit Number	No Data
Clearing Permit Holder	No Data
Status of Application	No Data
Permit Condition	No Data
Permit Condition Details	No Data

## 4 Environmental Considerations

### 4.1 Threatened flora, fauna and ecological communities

To search for Matters of National Environmental Significance that might occur in the area of your interest go to [Protected Matters Search Tool](#) available through the Department of Environment.

For parts of the State with poor data coverage, additional information might be found by searching the Department of Water and Environmental Regulations online portal, [Index of Biodiversity Surveys for Assessments](#) which provides access to information about land-based surveys in Western Australia. IBSA can be searched by geographic regions.

#### 4.1.1 Threatened and Priority Listed Flora Summary

Records of Threatened and/or Priority Listed Flora are available for the selected area. Threatened flora are protected and cannot be removed without ministerial consent. Advice should be sought from the Department of Biodiversity, Conservation and Attractions before development occurs on this site. Refer to the [EPA Technical Guidance Flora and Vegetation Surveys for Environmental Impact Assessment](#) to select appropriate flora and vegetation survey protocols

<b>Summary of records within the selected area by conservation status (number of records)</b>	
Threatened – EPBC Act listed	No data
Threatened – State listed	0
Priority	0
<b>Summary of records within 5km of the selected area by conservation status (Number of records)</b>	
Threatened – EPBC Act listed	No data
Threatened – State listed	0
Priority	7

#### 4.1.2 WA Herbarium Threatened and Priority Listed Flora Summary

<b>Summary of records within the selected area by conservation status (number of records)</b>	
Threatened – WAHerb listed	0
Priority – WAHerb listed	0
<b>Summary of records within 5km of the selected area by conservation status (Number of records)</b>	
Threatened – WAHerb listed	1
Priority – WAHerb listed	19

For the full list of records refer to Appendix 1.1

#### 4.1.3 Threatened and Priority Fauna and Fauna Habitat Summary

Records of Priority or Threatened Fauna are available for the selected area. Advice should be sought from the Department of Biodiversity, Conservation and Attractions before development occurs on this site. Refer to the [EPA Technical Guidance Terrestrial Fauna Surveys](#) to select appropriate fauna survey protocols

<b>Summary of records within the selected EPC Site by conservation status (number of records)</b>	
Threatened – EPBC Act listed	0
Threatened/Specially protected – State listed	0
Priority	0
<b>Summary of records within 5km of the selected area by conservation status (Number of records)</b>	
Threatened – EPBC Act listed	282
Threatened – State listed	289
Priority	129

For the full list of records refer to Appendix 1.2.

#### 4.1.4 Threatened and Priority Ecological Communities

This selected area may contain a threatened or priority ecological community. Advice should be sought from the Department of Biodiversity, Conservation and Attractions (DBCA) before development occurs on this site. Further information on a TEC or PEC record can be obtained from DBCAs [Species and Communities Branch](#) by quoting the **Occ\_Unique number** for that record and the source data reference number **Ref: 15-0221EC**.

For information to assist in referral, environmental assessment and compliance issues relating to TECs listed under the Commonwealth legislation, refer to the [Listing Advice](#) and/or [Conservation Advice and Recovery Plan](#). The Listing and/or Conservation Advice define the national ecological community and may include Key Diagnostic Characteristics, Condition Thresholds, Priority Research and Conservation Actions and additional considerations. For further information on EPBC Listed TECs, please go to the Department of the Environment and Energy website: [Threatened species and ecological communities page](#).

<b>Summary of Threatened and Priority Listed Ecological Community's Records Intersecting EPC Site</b>	
Threatened – EPBC Act listed	0
Threatened/Specially protected – State listed	0
Priority	0
<b>Summary of Threatened and Priority Listed Ecological Community's Records Intersecting EPC Site within 5km Buffer</b>	
Threatened – EPBC Act listed	422
Threatened/Specially protected – State listed	2
Priority	422

For the full list of records refer to Appendix 1.3

#### 4.1.6 Carnaby's Cockatoo Habitat

Carnaby's cockatoo (*Calyptorhynchus latirostris*) is listed as 'fauna that is rare or likely to become extinct' (generally referred to as threatened fauna) under the Western Australian Wildlife Conservation Act 1950 Wildlife Conservation (Specially Protected Fauna) Notice 2011. It has been ranked as 'Endangered' under the Commonwealth *Environmental Protection and Biodiversity Conservation Act 1999*.

If the selected area contains remnant vegetation, investigation for Carnaby's cockatoo feeding habitat is required.

<b>Carnaby Cockatoo Habitat</b>	
<b>The selected area is within the following mapping layers :</b>	
Remnant vegetation (ha)	0
Confirmed feeding habitat (ha)	0
'Confirmed' breeding area buffer (ha)	0
'Possible' breeding area buffer (ha)	0
'Confirmed' roosting area (ha)	0
'Confirmed' roosting area, buffered 6km (ha)	0.988
'Possible' roosting area (ha)	0
'Possible' roosting area, buffered 6km (ha)	0.988

#### 4.1.7 Key Biodiversity Areas (Birds)

This selected area contains or is adjacent to a Key Biodiversity Area (Birds). Key Biodiversity Areas (Birds) dataset has been prepared by Birds Australia to support the conservation of birds and biodiversity by all spheres of Government and community. The selected area intersects the below listed Key Biodiversity Area (KBA)

<b>Key Biodiversity Area (KBA)</b>
26933 - Northern Swan Coastal Plain IBA , <a href="#">More information</a>

#### 4.1.8 Potential Quenda Habitat

Quenda or southern brown bandicoot (*Isoodon obesulus fusciventer*) is listed as Priority 4 species by State Government. The potential Quenda habitat layer indicates where this species is likely to occur in the Swan Region. It can be used to identify where targeted site visits should focus to confirm the habitat presence, its use and quality.

<b>The selected area contains potential Quenda habitat (in ha):</b>
0

## 4.2.2 Remnant Vegetation

This area contains remnant vegetation. The clearing of remnant native vegetation is prohibited unless a clearing permit is obtained from the Department of Environmental Regulations, or for an exempt purpose or activity under the [Environmental Protection \(Clearing of Native Vegetation\) Regulations 2004](#).

### 4.2.2.1 Environmental Protection (Clearing of Native Vegetation) Regulations 2004, Statewide vegetation statistics

To view the retention and protection status of Beard vegetation associations, download reports prepared by the DBCA Statewide Vegetation Statistics.

<b>The selected area retains native vegetation representative of the following Beard vegetation associations by IBRA 7.1 subregion</b>	
IBRA Subregion (Code) :	Perth - SWA2
Beard Vegetation Association	SPEARWOOD_6 - Woodland southwest
Remnant Vegetation (Ha)	0.988

### 4.2.2.3 Environmental Protection (Clearing of Native Vegetation) Regulations 2004, Vegetation extent by Vegetation complexes

Conservation significance of vegetation complexes for the Perth and Peel Regions is summarised in the following document: Poorly Represented Vegetation Complexes, including the explanation for the retention and protection thresholds used below.

Vegetation complexes occurring within the Swan Coastal Plain and Jarrah Forest are classified into the following categories shown in brackets after the complex name:

- a) Vegetation complexes with less than 10% of pre-European extent remaining and < 10% being protected within the Swan Coastal Plain and Jarrah Forest IBRA regions
- b) Vegetation complexes with less than 30% of pre-European extent remaining and less than 10% being protected within the Swan Coastal Plain and Jarrah Forest IBRA regions
- c) Vegetation complexes with only 1500 ha or 15% or less protected for conservation in the Jarrah Forest IBRA-region
- d) Vegetation complexes with only 400 ha or 10% or less protected for conservation on the Swan Coastal Plain portion of Perth and Peel
- e) Vegetation complexes with less than 10% of pre-European extent protected within the Swan Coastal Plain and Jarrah Forest IBRA regions (and not already listed above)
- f) Vegetation complexes with less than 30% of pre-European extent remaining within the Swan Coastal Plain and Jarrah Forest IBRA regions
- g) Vegetation complexes not meeting any of the above criteria

To view the retention and protection statistics for vegetation complexes at the regional and Local Government level, download the 2017 Statewide vegetation statistics reports published by the Department of Biodiversity, Conservation and Attractions on DataWA: [DBCA South West Vegetation Complex Statistics](#).

**The selected area retains native vegetation representative of the following vegetation complexes (in ha):**

Bassendean Complex-Central and South, Bassendean Complex-Central and South Transition, Bassendean Complex-North, Bassendean Complex-North Transition, Beermullah Complex, Bootine Complex, Caladenia Complex, Coonambidgee Complex, Cottesloe Complex-Central and South, Cottesloe Complex-North, Forrestfield Complex, Gingin Complex, Guildford Complex, Herdsman Complex, Karamal Complex-South, Karrakatta Complex-Central and South, Karrakatta Complex-North, Karrakatta Complex-North Transition, Moondah Complex, Mungala Complex, Pinjar Complex, Quindalup Complex, Reagan Complex, Southern River Complex, Swan Complex, Vasse Complex, Yanga Complex

**4.2.2.4. Remnant Vegetation Within 10km buffer of Selected Area**

Area of remnant vegetation remaining within 10km of the selected area (local area vegetation retention). Land area is based on pre-European extent of Beard Vegetation Association mapping within the 10km buffer.

<b>Veg area:</b>	<b>Land area:</b>	<b>Remn veg remaining:</b>
55.185 km <sup>2</sup>	309.622 km <sup>2</sup>	17.824 %

**4.2.3 Perth Region Plant Community Reference Sites**

The selected area is within or near a Reference Site. For more information available for this area go to [Perth Region Plant Biodiversity Project](#).

**The following Reference Sites are in the area (Site Group – Reference):**

Bush Forever –No Data

### 4.3 Surface Water

#### 4.3.5 Geomorphic Wetlands of the Swan Coastal Plain

This selected area contains or is within 50m of a wetland. Advice should be sought from the DBCA before development occurs on this site.

<b>The selected area is within 50m of the following wetland types by indicated overlapping area (in ha):</b>	
Evaluation	Conservation, Multiple Use, Not Applicable, Resource Enhancement
Geomorphic Wetland (ha)	0.000

### 4.5 Regional Ecological Linkages

#### 4.5.1 Gnangara Mound Linkages

The remnant vegetation on this site is within Gnangara Mound Ecological Linkages (GMEL).

<b>The selected area is within the following GMEL categories:</b>
<b>Link Type – GMEL (ha)</b>
Area for Conceptual Linkage 0 Ha, Bush Forever associated with Conceptual Linkage 0 Ha, Conceptual Linkage 0 Ha, Linkage Site (Post-Pine Banksia Rehabilitation) 0 Ha

#### 4.5.2 Regional Ecological Linkage

The remnant vegetation on this site is within a regional Ecological Linkage. Regional Ecological Linkages should be maintained where possible.

<b>The selected area is within the following Regional Ecological Linkage area.</b>
No Data

## 5 Vegetation/Natural Areas with Some Level of Protection

Natural areas protected through Local Planning Scheme provisions are not identified through this report. Check current land uses by turning on Local Planning Scheme and Reserve layers in the Zoning Module.

### 5.2 Environmentally Sensitive Areas

The remnant vegetation on this selected area is within an Environmentally Sensitive Area. Native vegetation cannot be cleared from this site except for maintenance of existing railways or roads, or in accordance with the Environmental Protection (Clearing of Native Vegetation) Regulations 2004.

<b>The selected area is within an Environmentally Sensitive Area (in ha):</b>
---

No Data
---------

## 6 Priorities for Further Investigation

This information is available for the following regions: Perth and Peel Wheatbelt Geraldton Regional Flora and Vegetation Survey study area

### 6.1 Priorities for Further Investigation of Local Natural Areas for Biodiversity Conservation

#### 6.1.3 Level 1 Prioritisation Criteria

Remnant vegetation in the selected area has the following distribution of conservation significance criteria:

<b>Number of criteria met - area of remnant vegetation (in ha)</b>	
--	--

Level 1 Criteria	No Data
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Criteria Area (ha)	0
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Approximately 0 Ha of remnant vegetation meets criteria with legislative protection.

#### 6.1.3.3 Prioritisation Level 3: Potentially Threatened Vegetation Complexes

The selected area includes complexes considers potentially threatened. Retention and protection of remnant vegetation representative of these vegetation complexes should be a priority of consideration.

<b>Vegetation Complex Priority (Level 3) – area (in ha)</b>
---

Vegetation Comple	No Data
Enviro Veg Area Ha	0

## 6.2 South West Ecoregion Initiative

The selected area is within the Southwest Australia Ecoregion study area.

<https://www.environment.gov.au/land/nrs/science/ibra/australias-ecoregions>

Refer to the above listed URL for site specific information on potential conservation priorities.

## 7 Additional Considerations

Landscape character, soil systems, land capability and quality categories relevant to the selected site are not identified through this report. Check by turning on individual layers in the mapping viewer to access the relevant information or run a soils report.

### 7.7 Acid Sulfate Soils

This selected area is in a “high to moderate” or “moderate to low” Acid Sulfate Soil risk area. Acid sulfate soils should not be disturbed. Advice should be sought from the Acid Sulfate Soils Planning Guidelines and the Contaminated Sites Branch of the Department of Environmental Regulation.

Selected area containing acid sulphate soils (in ha)	Risk Category
No Data	No Data

Note: The ASS risk maps are not intended to provide site specific acid sulfate soil information but rather a broad scale identification of where the ASS layers are present. The data derived from the maps cannot be used to determine whether a specific property is affected by ASS but should be used to trigger site-specific investigations and management strategies for ASS soil disturbance and/or lowering of the water table.

### 7.11.1 Aboriginal Cultural Heritage

Aboriginal Cultural Heritage Action Item	<p>Status of Aboriginal Cultural Heritage is no longer completed as part of the EPC Report process. An assessment of Aboriginal Cultural Heritage will now involve completing the City's Due Diligence Assessment (DDA) template via Content Manager <a href="#">23/37493</a> and querying the Department of Planning Lands and Heritage (DPLH) mapping system.</p> <p><a href="https://espatial.dplh.wa.gov.au/AHIS/index.html?viewer=AHIS">https://espatial.dplh.wa.gov.au/AHIS/index.html?viewer=AHIS</a></p> <p>For further guidance on the new Aboriginal Heritage legislation, please visit DPLH's website</p> <p><a href="https://www.wa.gov.au/organisation/department-of-planning-lands-and-heritage/aboriginal-cultural-heritage-act-2021">https://www.wa.gov.au/organisation/department-of-planning-lands-and-heritage/aboriginal-cultural-heritage-act-2021</a></p> <p>or contact the City's Heritage Advisor.</p>
--	--

### 7.11.2 State Heritage Sites

The site overlays the following state government identified heritage sites.

State Heritage	
State Dataset	
State Site_ID	
State Heritage Site Name	
State Comments	

### 7.11.3 City of Wanneroo Heritage Sites

The site overlays the following City of Wanneroo identified heritage sites.

This data is inaccurate. Check with [REDACTED], Heritage Advisor, Cultural Development for details.

COW Heritage	No Data
COW Dataset	No Data

COW Site_ID	No Data
COW Heritage Site Name	No Data
COW Comments	No Data

### 7.12 Contaminated Sites

<b>The selected area contains the following contaminated site:</b>
No Data

### 7.13 Bushfire Prone Area

<b>The selected area is within a mapped Bushfire Prone Area (in ha):</b>
0

Additional planning and building requirements may apply to developments within designated bush fire prone areas, in accordance with Schedule 2 Part 10A of the Planning and Development (Local Planning Schemes) Regulations 2015, State Planning Policy 3.7 Planning in Bushfire Prone Areas, the supporting Guidelines for Planning in Bushfire Prone Areas and the Building Code of Australia. Certain exemptions and exclusions may apply.

## 8 Local Government Specific Information

### 8.1 Local Biodiversity Strategies

The selected area is within the following local government authority (LGA) with a local biodiversity strategy (LBS)

Local Government Authority (LGA)
City_of_Wanneroo
<a href="#">More Information</a>

## 8.2 Coastal Hazard Risk Management & Adaption Planning

CHRMAP:	No Data
---------	---------

## 8.3 Karst

<b>The selected area has the following cave risk:</b>
Cave Risk Category: Low

## 8.4 UXO

<b>The selected area has the following unexploded ordnance:</b>	
UXO Site Name	No Data
UXO Alternative Name	No Data
UXO General Location	No Data
UXO Category	No Data
UXO URL	<a href="#">More Information</a>
UXO Description	No Data

---

## 10 Administrative Boundaries

### 10.1 Interim Biogeographic Regionalisation for Australia, Version 7.1 Sub-regions

This selected area is within the following IBRA 7.1 Sub-regions.

<b>IBRA Sub-region</b>
------------------------

Swan Coastal Plan

### 10.3 Bush Forever

This selected area contains or is within a Bush Forever Area. Advice should be sought from the Department of Planning.

**The selected area occurs on the following Bush Forever Areas:**

No Data

### 10.4 Regional Parks

**This selected area is within or adjacent (50m) to a Regional Park:**

No Data

### 10.5 DBCA Managed Lands and Waters

This selected area is within or adjacent to land managed for conservation by the Department of Biodiversity, Conservation and Attractions.

**The selected area is within or adjacent (50m) to the following DBCA Estate  
(Reserve identifier: Category):**

No Data

---

## 11 Environmental Policy

### 11.2 Public Drinking Water Source Areas

**The selected area is within the following Public Drinking Water Source Areas (in ha):**

No Data

## 11.4 RIWI Act Groundwater Areas and Subareas; Surface Water Areas and Irrigation Districts

The selected area is within the following RIWI Act area/s.

<b>RIWI Act Area</b>
Perth Groundwater Areas

## Appendix 1.1 Threatened and Priority Listed Flora Records

Records of Threatened and/or Priority Listed Flora are available for the selected area. Threatened flora are protected and cannot be removed without ministerial consent. Advice should be sought from the Department of Biodiversity, Conservation and Attractions before development occurs on this site. Refer to the [EPA Technical Guidance Flora and Vegetation Surveys for Environmental Impact Assessment](#) to select appropriate flora and vegetation survey protocols.

### DBCA records

The selected area has the following **DBCA records**:

Population ID	Conservation Status	State Ranking
No Data	No Data	No Data

The following **DBCA records are within 5km** of the selected area. Use the information to seek advice from the Department of Biodiversity, Conservation and Attractions:

Population ID	Conservation Status	State Ranking
84822, 86874, 98915, 98916, 98917, 98929, 98930	3, 4	No Data

### WA Herbarium records

The selected area has the following **WA Herbarium records**:

Sheet Number	Conservation Status
No Data	No Data

The following **WA Herbarium records are within 5km** of the selected area. Use the information to seek advice from the Department of Biodiversity, Conservation and Attractions:

Sheet Number	Conservation Status
--------------	---------------------

169579, 255947, 278696, 703656, 718297, 920320, 1016539, 2076802, 2554682, 2997290, 3378632, 3378640, 3409171, 3416089, 4097394, 4098374, 4654773, 5437806, 7881274, 8148511	2, T, 3, 1, 4
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Key to the Conservation Status	
CR = Critically Endangered	1 = Priority 1: Poorly Known Taxa
EN = Endangered	2 = Priority 2: Poorly Known Taxa
VU = Vulnerable	3 = Priority 3: Poorly Known Taxa
EX = Extinct	4 = Priority 4: Rare Taxa

## Appendix 1.2 Threatened and Priority Fauna and Fauna Habitat Records

Records of Priority or Threatened Fauna are available for the selected area. Advice should be sought from the Department of Biodiversity, Conservation and Attractions before development occurs on this site. Refer to the [EPA Technical Guidance Terrestrial Fauna Surveys](#) to select appropriate fauna survey protocols.

The selected area has the following **Fauna records**:

Class Name - EPBC Ranking - State Ranking		
No Data	No Data	No Data

The following protected fauna species have been recorded within 5km of the selected area. Use the information to seek advice from the Department of Biodiversity, Conservation and Attractions.

Class Name - EPBC Ranking - State Ranking		
24328, 24345, 24731, 24733, 24734, 24784, 24788, 24806, 24808, 24809, 24843, 24855, 25249, 25554, 25575, 25624, 25741, 33992, 47975, 48400, 48588,	BIRD, REPTILE, INVERTEBRATE, MAMMAL	P4, EN, VU, CR, MI, P3, OS

48595, 48935		
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## Appendix 1.3 Threatened and Priority Ecological Communities Records

This selected area may contain a threatened or priority ecological community. Advice should be sought from the Department of Biodiversity, Conservation and Attractions (DBCA) before development occurs on this site. Further information on a TEC or PEC record can be obtained from DBCAs [Species and Communities Branch](#) by quoting the **Occ\_Unique number** for that record.

For information to assist in referral, environmental assessment and compliance issues relating to TECs listed under the Commonwealth legislation, refer to the [Listing Advice](#) and/or [Conservation Advice and Recovery Plan](#). The Listing and/or Conservation Advice define the national ecological community and may include Key Diagnostic Characteristics, Condition Thresholds, Priority Research and Conservation Actions and additional considerations. For further information on EPBC Listed TECs, please go to the Department of the Environment and Energy website: [Threatened species and ecological communities page](#).

The following threatened and priority vegetation communities have been recorded within the selected area.

OCC Unique Number	State Ranking	EPBC Ranking
No Data	No Data	No Data

The following threatened and priority vegetation communities have been recorded within 5km of the selected area. Use the information to seek advice from the Department of Biodiversity, Conservation and Attractions.

OCC Unique Number	State Ranking	EPBC Ranking
0, 107301, 108704, 108705, 108743, 108744, 108745, 108746, 108747, 108748, 108751, 108752, 108753, 108754, 108755, 108756, 108757, 108758, 108759, 108760, 108761, 108762, 108763, 108764, 108765, 108766, 108767, 108768, 108769, 108774, 108782, 108801, 108802, 108821, 108828, 108832, 108870, 108878, 108879, 108880, 108881, 108882, 113225, 113226, 113228, 113229, 113230, 113231, 113232, 113234, 113235, 113243, 113244, 113245, 113249, 113254, 113255, 113256, 113257, 113258, 113259,	Endangered, Priority 3	, Endangered, Critically Endangered

113260, 113262, 113263, 113264, 113265, 113266, 113267, 113268, 113269, 113270, 113271, 113272, 113273, 113274, 113275, 113276, 113277, 113278, 113279, 113280, 113281, 113282, 113283, 113284, 113285, 113286, 113288, 113300, 113301, 113302, 113303, 113304, 113305, 113306, 113307, 113310, 113316, 113317, 113320, 113321, 113322, 113323, 113324, 113325, 113327, 113328, 113329, 113330, 113331, 117554, 117555, 117557, 117559, 117576, 117586, 117587, 117588, 117589, 117627, 117632, 117642, 117670, 117671, 117672, 117673, 117675, 117679, 117681, 117682, 117686, 117689, 117690, 117691, 117692, 117699, 117705, 117708, 117709, 117715, 117716, 117717, 117718, 117719, 117720, 117721, 117722, 117723, 117724, 117725, 117726, 117727, 117728, 117729, 117730, 117731, 117732, 117758, 117759, 117760, 117773, 117789, 117791, 117792, 117793, 117794, 117795, 117796, 117797, 117798, 117799, 117800, 117801, 117802, 117805, 117806, 117807, 117808, 117809, 117810, 117811, 117825, 117826, 117827, 117828, 117833, 117834, 117842, 117843, 117844, 117845, 117846, 117847, 117848, 117849, 117850, 117851, 117854, 117855, 117856, 117857, 117858, 117895, 117896, 117897, 117898, 117899, 117903, 117904, 117905, 117906, 117907, 117908, 117909, 117910, 117911, 117912, 117913, 117914, 117915, 117916, 117919, 117920, 117921, 117922, 117923, 117924, 117925, 117926, 117927, 117928, 117929, 117930, 117931, 117932, 117933, 117934, 117935, 117936, 117937, 117938, 117939, 117940, 117941, 117942, 117943, 117944, 117945, 117946, 117947, 117948, 117949, 117950, 117951, 117952, 117953, 117954, 117955, 117956, 117957, 117958, 117959, 117960, 117961, 117962, 117963, 117964, 117965, 117966, 117967, 117968, 117969, 117970,		
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117971, 117972, 117973, 117974, 117975, 117976, 117977, 118020, 118038, 118042, 118050, 118051, 118052, 118053, 118056, 118057, 118059, 118064, 118066, 118068, 118069, 118070, 118075, 118076, 118077, 118078, 118079, 118124, 118125, 118126, 118127, 118128, 118129, 118130, 118140, 118141, 118142, 118143, 118144, 118145, 118146, 118147, 118148, 118149, 118150, 118151, 118152, 118153, 118154, 118155, 118156, 118157, 118158, 118159, 118160, 118161, 118162, 118163, 118164, 118165, 118166, 118169, 118170, 118180, 118181, 118182, 118183, 118184, 118185, 118186, 118187, 118188, 118189, 118190, 118191, 118192, 118195, 118196, 118202, 118203, 118204, 118217, 118218, 118219, 118220, 118324, 118325, 118330, 118331, 118332, 118333, 118334, 118335, 118340, 118341, 118342, 118343, 118349, 118352, 118353, 118354, 118355, 118356, 118357, 118358, 118360, 118362, 118363, 118364, 118367, 118368, 118370, 118371, 118374, 125337, 125493, 125494, 126598, 126599, 126604, 126605, 126606, 126607, 126608, 126609, 126637, 126639, 126640		
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# Appendix 2 - Desktop Assessment Report for Native Vegetation Clearing NVC Application

# City of Wanneroo

## Desktop Assessment Report for Native Vegetation Clearing (NVC) Application



Based on data supplied by WALGA and Landgate



©Western Australian Land Information Authority (2020):  
Cadastral/Property boundaries  
Hydrography lines  
Crown Reserves

Distance and area calculations are performed using the MGA94 Zone 50.

This report and the application it is produced from is based on the discontinued WALGA Environmental Planning Tool developed by Fluffy Software.



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## 1 Applicant Details

<b>Applicant:</b>	City of Wanneroo
<b>COW NVC Site ID</b>	
<b>Property</b>	No Data
<b>LGA</b>	City of Wanneroo
<b>Proposed Clearing</b>	
<b>Land Tenure</b>	No Data

## 2 Site Details










<b>DBCA District:</b>	Swan Coastal
<b>Environmentally Sensitive Area</b>	No Data
<b>EPA Red Book Area</b>	No Data
<b>Country Areas Water Supply Act 1947 - Clearing Control</b>	No Data
<b>Rights in Water and Irrigation Act 1914 area</b>	No Data

### 3 Applicant Site Attributes

<b>Rainfall Annual Mean (mm)</b>	729
<b>Evapotranspiration Annual Mean (mm)</b>	1800
<b>Contour Elevation (1m interval)</b>	No Data
<b>Geology</b>	Low hilly to gently undulating terrain. Yellow sand over limestone at 1-2 m. Banksia spp. woodland with scattered emergent E. gomphocephala and E. marginata and a dense shrub layer.
<b>Soil</b>	Karrakatta Sand Yellow Phase - 211Sp__Ky
<b>Department of Aboriginal Affairs Site</b>	

#### 4 Identified Potential Impacts of Clearing

**Red** – Likely to be at variance, **Orange** – May be at variance, **Green** – Not likely to be or not at variance. Appendix 3 contains definitions of all the Principals parameter values.

<b>Clearing Principle</b>	<b>Impacts</b> (please circle)	<b>Reason</b> (please provide explanation why you have selected the level of variance)
<b>Principle (A) – High Biodiversity</b>	Red Flag 	The vegetation is in a good or better (Keighery 1994) condition and there is flora, fauna, PEC, and TEC records within 5km of the application area. If ANY of the principles B, C, and D are red
<b>Principle (B) – Significant Habitat For Fauna</b>	Red Flag 	If there are Carnaby records within 10km; hollows are present in the application area; other fauna records within 5km; vegetation is in a good or better (Keighery 1994) condition.
<b>Principle (C) – Habitat For Rare Flora</b>	Orange Flag 	If the vegetation community and soil type mapped in the application area is the same as a Declared Rare Priority (DRP) record within 10km. If the vegetation is in a good or better (Keighery 1994) condition
<b>Principle (D) – Habitat for TEC's</b>	Red Flag 	Records within 5km of the application area.
<b>Principle (E) – Significant Remnant In An Extensively Cleared Area</b>	Orange Flag 	If the vegetation communities mapped in the application area are less than 30% or 10% in DER region. If the native vegetation in the local area is less than 30% and principle B, C, or D are orange
<b>Principle (F) – Growing In Association With A Watercourse Or Wetland</b>	Green Flag 	There are no water courses or wetlands or vegetation is growing in association with a watercourse or wetland in the application area
<b>Principle (G) – Likely To Cause Appreciable Land Degradation</b>	Green Flag 	The application does not intersect with a Acid Sulfate Soil (ASS) site or area subject to erosion
<b>Principle (H) – Impacts To Conservation Area</b>	Green Flag 	The application area is more than 50m from a conservation area
<b>Principle (I) – Deterioration In The Quality Of Surface Or Underground Water</b>	Green Flag 	The application area does not fall within the Red or Orange flag categories for "Principle I"

## 5 Explanatory Notes

This report is designed to support City of Wanneroo with native vegetation clearing permit applications. The report is a desktop study and does not replace a site assessment

The information generated in this report is correct to the best of City of Wanneroo's knowledge.

Information about the clearing principles is available from the [Department of Water and Environment Regulation \(DWER\) "A guide to the assessment of applications to clear native vegetation"](#).

## 6 Interpreting This Report

This report will assist the user to determine if the proposed clearing is 'at variance', 'may be at variance', 'not likely to be at variance' or 'not at variance' to any of the clearing principles contained Schedule 5 of the *Environmental Protection Act 1986 (EP Act)*.

If using this report to complete an assessment as part of your desktop study under your Strategic Purpose Permit and an 'at variance' result is produced, you may refer your application to DWER for clarification. Please note that the Strategic Purpose Permit applies to clearing that is 'not at variance' or 'not likely to be at variance' to any of the clearing principles. Proposed clearing that 'may be at variance' or 'is at variance' will need to be referred to DWER for review.

If using this report as supporting information for a clearing permit application, please email this report, a covering sheet and accompanying shapefile with the application form and payment to DWER.

If you are unsure about the levels of variance identified in this report and require further clarification, please seek further advice from DWER by submitting a referral form via email or alternatively phone (08) 6364 7000.

The 'may be at variance' and 'at variance' levels determined in this report identifies that a clearing principle requires further attention. A more detailed assessment (including a site visit may be required) and further identification of impacts may alter the variance levels. If you wish to seek clarification on the altered variance level, please seek advice from DWER via email or alternatively phone (08) 6364 7000, using your Permit Number for reference. NB: Any actions you take should be accounted for and recorded. This information should be provided in your annual report and is subject to DWER auditing.

## 7 Appendix 1 – Data used for Calculating Principals

The data used to calculate the identified impacts of clearing are listed in Appendix 1. The data is indexed by Principal A to E. Further information might be available for your application site in specific project reports or site specific assessments that you might like to attach to this desktop assessment.

## 7.1 Principal A - Biodiversity

Native vegetation should not be cleared if it comprises a high level of biological diversity.

### 7.1.1 Specially Protected Fauna

The following fauna record counts have been located within 5km of the application area.

Class	Status	Number of Records
BIRD CR, BIRD EN, BIRD MI, BIRD OS, BIRD P4, BIRD VU, INVERTEBRATE P3, INVERTEBRATE P4, MAMMAL P4, REPTILE P3	CR, EN, MI, OS, P4, VU, P3	1, 265, 92, 8, 64, 7, 4, 40, 6

### 7.1.2 Priority Fauna

The following priority fauna records have been located within 5km of the application area.

Source ID	Class	WA Status	Certainty	Distance (m)
76689 216, 6465, 5817, 5073608 216, 3270, 5072489 216, 5020120 216, 5130052 216, 6585, 58265 216, 5153 216, 262171 216, 68022 216, 262143 216, 290950 216, 5000794 216, 432878 216, 487070 216, 283844 216, 262260 216, 432879 216, 135271 216, 431379 216, SWAN COASTAL PLAIN WATERBIRDS SCGIBB 03- OCT- 91 A GROUND BBDU, 290019 216, 283367 216, 5114674 216, 5056744 216, 5070154 216, 5095596 216, 5032637 216, 5116818 216, 5054819 216, 5098975 216, 5034199 216,	Bird	P4	No Data, Certain, Moderately certain	1552.3, 1794.8, 1799.8, 2161, 2258.7, 2312.6, 2778.7, 2905.1, 3125.7, 3175.1, 3480.4, 4181.4, 4196.4, 4252.6, 4269.3, 4299.6, 4316.6, 4333.9, 4334.5, 4736.3

5089561 216, 5052767 216, 5092164 216, 5054196 216, 5056688 216, 5055497 216, 5076663 216, 5089205 216, 5053003 216, 5119646 216, 5114090 216, 5052535 216, 5055516 216, 5053699 216, 5087329 216, 5069849 216, 5067253 216, 5086517 216, 5115602 216, 5073633 216, 5054616 216, 5119346 216, 5086621 216, 5092328 216, 5116031 216, 5055970 216, 5089663 216, 5055545 216, 5031440 216				
No Data	Fish	No Data	No Data	No Data
7672, 7673, 99137, 99139, 99138, 99145, 99141, 99140, 214990, 214989, 99142	Invertebrate	P4, P3	Certain	2198.8, 2213, 3120, 3347.5, 4128.2, 4376.8, 4391.7, 4739.1
80066, 24978, 127137, 23186, 67771, 23175, 97261, MAMM:M47950, MAMM:M41421, 24960, 22160, 8203, 8206, 5730, 8207, 8202, 1773GAA, 21226, 498807, 76055, 98695, 75577, 98130, 68577, 23439, 81032, 23438, 23436, 68147, 80207, 68102, 80226, 81038, 21225, 21229, 21227, 89603, 175, 176, 1325846	Mammal	P4	Moderately certain, Certain, Very Certain (photo, specimen, expert), WAM Vouchered, No Data	1228, 1336.7, 1817.4, 1854.9, 1943.9, 2164, 2166.3, 2198.7, 2324.2, 2346.7, 2480.5, 2752.5, 2781.1, 2977.8, 3421.7, 3470.6, 3499,

				3726.6, 3978.4, 4020.7, 4088.2, 4293.4, 4303.9, 4311.7, 4358.7, 4363.6, 4393.4, 4421.4, 4519.8, 4525.5, 4622.8, 4634.9, 4706.5, 4807.1, 4856.2, 4950, 4957.8
REPT:R1307, 67770, calonotos   25/10/2017, 15110, REPT:R41267	15177, Neelaps	Reptile	P3	2198.7, 2198.8, 3357.9, 3363.1, 3682, 3682.2

### 7.1.3 Specially Protected Flora

The following flora record counts have been located within 5km of the application area.

ConStatus	WA Rank	Number of Records
Priority 3 - Poorly Known Taxa, Priority 4 - Rare Taxa	No Data	1, 6

### 7.1.4 Priority Flora

The following priority flora records have been located within 5km of the application area.

Population ID	Priority	Distance (m)
86874, 98929, 98930, 98916, 98917, 84822, 98915	Priority 4 - Rare Taxa, Priority 3 - Poorly Known Taxa	2318, 3470, 3505, 4182, 4197, 4551, 4686

### 7.1.5 Threatened Ecological Communities

The following threatened ecological community records have been located within 5km of the application area.

Ranking	Count
Priority, Threatened	1, 479

### 7.1.6 Priority Ecological Communities

The following priority ecological community records have been located within 5km of the application area.

Record ID	Ranking	Level	Distance (m)
126599, 117843, 117849, 117976, 117929, 118190, 117969, 118182, 118057, 117967, 118127, 117899, 117729, 118360, 118050, 118140, 117925, 118141, 117858, 117950, 117953, 118353, 118157, 118217, 117951, 117724, 118204, 117908, 108746, 113329, 117830, 117694, 113277, 113234, 118205, 117811, 108747, 113316, 117832, 118121, 118327, 118365, 118084, 3006, 118086, 113271, 118038, 118335, 113325, 126637, 117963, 118079, 117964, 117844, 118078, 117760, 117848, 117965, 126608, 117845, 117847, 117731, 117846, 126598, 118075, 118076, 117699, 117898, 118077, 117732, 117975, 118325, 117728, 117970, 117773, 117977, 118186, 118185, 117927, 118187,	Threatened, Priority	1	0, 370, 561, 641, 757, 793, 832, 1065, 1207, 1236, 1268, 1370, 1383, 1406, 1484, 1562, 1574, 1633, 2043, 2224, 2341, 2346, 2456, 2537, 2611, 2852, 3193, 3491, 3957, 4005, 4041, 4069, 4118, 4141, 4195, 4207, 4240, 4331, 4355, 4389, 4477, 4487, 4529, 4581, 4586, 4597, 4662, 4728, 4910, 56.8, 213.1, 338.4, 339.1, 362.8, 382.8, 385.6, 416.8, 428.3, 431.1, 432.2, 477.9, 534.2, 535.7, 557.6, 565.3, 600.7, 605.6, 608.9, 620.7, 627.4, 660.4, 728.1, 743.8, 805.4, 818.2, 821.5, 865.7, 868.1, 876.1, 877.5, 877.9, 968.5, 977.1, 995.9, 1005.7, 1016.8, 1018.1, 1053.3, 1057.9, 1061.9, 1091.6, 1115.7, 1118.7, 1119.1, 1138.8, 1139.9, 1146.2, 1158.5, 1181.5, 1202.3, 1226.1, 1227.1, 1240.5, 1274.6, 1280.3, 1285.6, 1302.4, 1302.8, 1304.3, 1306.8,

117968, 117973, 117555, 118188, 117897, 118343, 117928, 117672, 118183, 118189, 118181, 117974, 117931, 117554, 118184, 117947, 117971, 117930, 117670, 117642, 117946, 117589, 117932, 126607, 118152, 117945, 117933, 126609, 117972, 126606, 118151, 117966, 118126, 118128, 117834, 117588, 117587, 118053, 118051, 117671, 118125, 117948, 118129, 118052, 118191, 117806, 118192, 117730, 118357, 118358, 117689, 118150, 117586, 126604, 118356, 117855, 117576, 117789, 118196, 118130, 117958, 117691, 118180, 117942, 117726, 126605, 117921, 117727, 117682, 117854, 117941, 117954, 117805, 117920, 117936, 117940, 118165, 117919, 125114, 117957, 117825, 118334, 117955, 118166, 117857, 117922, 118195, 118124, 117938, 118169, 117924, 117939, 118355, 117827, 117632, 117923, 117856, 117956,			1326.4, 1335.8, 1344.5, 1354.4, 1355.4, 1363.8, 1365.4, 1388.7, 1398.2, 1420.4, 1425.2, 1436.6, 1438.3, 1448.5, 1477.7, 1483.1, 1502.4, 1525.8, 1526.3, 1528.5, 1529.8, 1544.7, 1558.3, 1566.9, 1600.8, 1652.7, 1679.9, 1686.2, 1693.4, 1730.9, 1734.3, 1757.5, 1773.5, 1788.8, 1794.7, 1815.9, 1818.6, 1818.9, 1825.7, 1832.7, 1863.5, 1871.2, 1874.7, 1905.6, 1907.4, 1919.2, 1922.7, 1930.3, 1931.3, 1936.6, 1949.8, 1976.1, 1980.7, 1984.4, 1986.7, 1996.5, 1997.6, 2011.2, 2015.1, 2021.5, 2022.3, 2042.7, 2060.3, 2061.9, 2066.6, 2080.4, 2118.5, 2133.5, 2155.3, 2167.1, 2170.9, 2175.8, 2176.4, 2179.7, 2184.5, 2207.8, 2213.3, 2217.3, 2236.3, 2266.7, 2273.5, 2306.6, 2317.5, 2331.8, 2334.7, 2337.6, 2343.8, 2361.3, 2390.4, 2430.8, 2435.7, 2437.9, 2451.1, 2468.9, 2486.6, 2503.9, 2515.5, 2543.5,
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117937, 118142, 117949, 118359, 118164, 118333, 126639, 118143, 117833, 117952, 118354, 118144, 118361, 117675, 118170, 126640, 117627, 117802, 117686, 118332, 118064, 118341, 118145, 118146, 117926, 118342, 117837, 118340, 117934, 117962, 118163, 125490, 117810, 117961, 118162, 118159, 118352, 117807, 126610, 125115, 117935, 118367, 118123, 117959, 118349, 118324, 118070, 117681, 118158, 117565, 126130, 117960, 117828, 117809, 117708, 118161, 117808, 118160, 117679, 125117, 117842, 117725, 117826, 118203, 118065, 108882, 108774, 117829, 118056, 125121, 125116, 117719, 108821, 117718, 118155, 118218, 118156, 118020, 117673, 126611, 118059, 117715, 117709, 108880, 117800, 117717, 126656, 117716, 118202, 126612, 118066, 118368, 117720, 108832, 118069, 117721, 126131, 108870,			2555.7, 2565.6, 2566.1, 2580.5, 2626.1, 2627.2, 2627.7, 2641.8, 2650.9, 2669.9, 2678.5, 2692.2, 2710.2, 2712.9, 2713.9, 2721.9, 2726.4, 2735.1, 2735.2, 2742.4, 2753.1, 2760.2, 2771.6, 2785.3, 2791.5, 2793.7, 2796.2, 2858.8, 2870.2, 2885.6, 2922.1, 2922.7, 2927.9, 2964.8, 2983.6, 2993.8, 2995.5, 3014.8, 3080.7, 3109.5, 3114.2, 3119.5, 3122.4, 3143.9, 3146.4, 3152.5, 3158.1, 3170.3, 3217.3, 3219.3, 3244.2, 3250.5, 3275.3, 3278.9, 3303.9, 3318.9, 3323.8, 3337.8, 3346.1, 3361.4, 3365.6, 3367.2, 3417.4, 3421.9, 3438.2, 3453.5, 3464.6, 3466.9, 3471.7, 3473.6, 3494.3, 3495.5, 3499.4, 3520.8, 3524.8, 3550.7, 3555.1, 3559.6, 3560.9, 3577.2, 3577.9, 3580.6, 3586.7, 3600.2, 3601.2, 3601.7, 3604.9, 3605.4, 3607.9, 3610.3, 3618.1, 3635.7, 3644.9, 3648.4, 3649.6, 3660.7, 3663.1, 3673.4,
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117722, 117907, 108765, 118042, 117797, 125122, 118370, 117909, 108766, 117796, 118154, 118220, 117906, 117793, 108705, 117792, 117978, 117791, 118117, 117905, 118153, 108881, 118369, 118366, 117723, 118219, 108879, 117801, 117904, 117692, 117676, 117914, 117794, 117795, 117896, 118118, 117911, 113307, 117850, 118074, 117799, 117822, 117798, 108878, 117912, 108767, 117910, 117702, 126129, 117916, 118303, 118305, 113231, 125123, 117678, 117693, 118307, 118310, 125493, 126132, 118362, 108802, 118302, 117759, 3116, 108745, 125494, 117758, 118371, 108743, 113272, 118148, 118306, 117913, 113331, 113264, 113235, 108801, 108761, 118304, 118113, 125124, 108744, 117831, 118147, 118068, 125336, 113330, 117824, 125317, 118326, 113267, 118120, 113263, 113305, 113260, 113317, 118309,			3675.2, 3681.7, 3702.6, 3708.7, 3712.1, 3727.2, 3731.1, 3733.3, 3754.4, 3762.6, 3765.9, 3777.5, 3782.9, 3789.2, 3798.9, 3801.7, 3806.8, 3813.2, 3817.8, 3831.8, 3835.3, 3871.7, 3872.8, 3882.9, 3890.4, 3891.9, 3892.9, 3906.7, 3910.1, 3921.3, 3921.9, 3932.4, 3947.6, 3960.4, 3966.8, 3973.9, 3975.1, 3980.9, 3982.5, 3983.8, 3992.4, 3997.2, 4011.9, 4014.1, 4014.2, 4022.1, 4052.8, 4057.8, 4063.8, 4068.1, 4084.8, 4104.4, 4110.2, 4113.5, 4131.4, 4131.7, 4135.3, 4139.4, 4151.1, 4157.1, 4157.5, 4158.8, 4173.3, 4176.1, 4177.7, 4183.7, 4185.5, 4188.4, 4197.1, 4204.1, 4204.5, 4206.9, 4227.7, 4231.3, 4238.2, 4239.9, 4245.7, 4248.4, 4251.9, 4260.9, 4271.5, 4273.5, 4278.6, 4280.1, 4301.4, 4302.4, 4306.6, 4312.1, 4320.3, 4327.4, 4331.7, 4335.2, 4354.2, 4355.6, 4362.2, 4365.2, 4376.9, 4378.5,
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[REDACTED]			[REDACTED]
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117903, 125485, 118331, 118021, 113322, 118330, 117823, 113243			
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### 7.1.7 Apiary Sites

The following apiary site records have been located within 5km of the application area:

Waiting for data to be supplied
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### 7.1.8 Environmentally Sensitive Area

Area of site within Environmentally Sensitive Area (ha)

0
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## 7.2 Principle B - Significant Habitat for Fauna

Native vegetation should not be cleared if it comprises the whole or part of, or is necessary for the maintenance of, a significant habitat for fauna indigenous to Western Australia.

### 7.2.1 Carnaby's Cockatoo Habitat

Cockatoo Attribute	Relationship with Site
Remnant Vegetation	0
Confirmed Breeding Site	0
Unconfirmed Breeding Site	0
Feeding Habitat	0
Confirmed Roosting Sites	0
Confirmed Roost Sites 6km Buffer	0.016
Unconfirmed Roosting Areas	0
Unconfirmed Roost Sites 6km Buffer	0.016

### 7.2.2 Important Birding Areas

The site is within the following Important Birding Areas.

Northern Swan Coastal Plain IBA
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### 7.2.3 Specially Protected Fauna

The following fauna records have been located within 5km of the application area.

Key to conservation status ranking:

CD = Species of special conservation interest (conservation dependent fauna)

CR = Critically Endangered

EN = Endangered

EX = Presumed Extinct

MI = Migratory Species

OS = Other specially protected species

VU = Vulnerable

Class	Source ID	Ranking	Distance (m)
Bird	21465, 18850, 18589, 125, 25906, 25905, 218572 794, 23593, 93, 21366, 23616, 21360, 25903, 25904, 30736, 30733, 30735, 30734, AVIF:28769, AVIF:18596, AVIF:18453, AVIF:18452, AVIF:18597, AVIF:21968, 25916, 25924, 25921, 25927, 25915, 33374, 25918, 25939, 25929, 25926, 25920,	OS, EN, VU, MI, CR	986.3, 1088.4, 1210.3, 1389.4, 1493.4, 1508.1, 1691.5, 1697.5, 1872.8, 1901, 1986.7, 2072.5, 2072.7, 2198.7, 2206.5, 2290.8, 2295.7, 2310, 2312.6, 2365.2, 2378.4, 2407.4, 2457.2, 2528.7, 2537.6, 2551.7, 2589.6, 2699.3, 2711.2, 2739.4, 2778.7, 2836, 2869.2, 2943.4, 2998, 3047.7, 3077.9, 3116.2,

	<p>25923, 33376,  25928, 25914,  28137, 25917,  25919, 25922,  29278, 25902,  25900, 25901,  29277, 25878,  25877, 25880,  25862, 25879,  25861, 25876,  21170,  5120271 178,  5037306 178,  95792, 28134,  5130057 178,  5008099 178,  5021975 178,  262331 158,  262331 178,  289436 178,  289436 158, 25875,  25874, 23574,  33049, 8204,  5020771 794,  5010353 158,  286556 794, 23546,  5120796 178,  5120796 158,  5120711 178,  5120711 158,  5120273 178,  25468, 25469,  23547, 97223,  97222, 97224,  81992, 99898 794,  27233, 27232,  27234, 81990,  81993, 298390 794,  25913, 30262,  36868, 8405, 8404,  205162 154,  205169 154,  205163 154,  205170 158,  205181 158,  205828 158,  205181 154,  205164 154,  205169 158,  203098 178,  84397 178,  205182 158,</p>		<p>3175.1, 3204.6,  3220.3, 3265,  3291.8, 3312.1,  3317.3, 3317.8,  3322, 3322.4, 3326,  3329.6, 3341.3,  3369.2, 3369.6,  3388.9, 3399.5,  3421.7, 3422.9,  3434.6, 3470.9,  3480.2, 3480.4,  3502.7, 3526.1,  3528.1, 3541.4,  3553.3, 3554.2,  3570, 3611.9,  3650.7, 3653.9,  3690, 3702.5,  3726.6, 3782.5,  3804.1, 3833.9,  3837.9, 3852.3,  3943.8, 3982,  4022.3, 4055.4,  4060.8, 4102.3,  4124.9, 4128.7,  4136, 4172.6,  4191.1, 4196.4,  4252.6, 4278.1,  4307.1, 4316,  4352.4, 4354.4,  4371.8, 4398.2,  4426, 4429.1,  4446.5, 4451.3,  4477.1, 4481.6,  4490.8, 4551.1,  4558.1, 4616.3,  4626.1, 4699.3,  4701.3, 4707.1,  4714, 4716.4,  4717.4, 4724.5,  4733.5, 4735.1,  4736.3, 4744.5,  4746.4, 4788,  4792.4, 4832.4,  4842.9, 4848.8,  4853.5, 4867, 4946,  4948.4, 4950,  4979.8, 4985</p>
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	205163 159, 271919 794, 271918 794, 271926 794, 271927 794, 271918 178, 289435 794, 138487 158, 5024607 158, 5024607 794, 5087422 794, 5057652 158, 5079703 159, 5079703 158, 267342 794, 267344 237, 8205, 262225 154, 262225 794, 29549, 30732, 30731, 31410, 30724, 289344 794, 100209, 24410, 24411, 32672, 80376, 157338 178, 157336 158, 199272 794, 157340 794, 199272 158, 199272 154, 157336 794, 157339 794, 157338 158, 157338 794, 298389 266, 1513, 5153 794, 262166 794, 32670, 8190, 23559, 33539, 32223, 30729, 31122, 29550, 30727, 30726, 31119, 31121, 25936, 30728, 36709, 30725, 32222, 31123, 30730, 31120, 81994, 35768, 35765, 35766, 35767, 262165 794, 80653, 20099, 32690, 25935, 25925, 25934, 25930, 25933, 25931, 25873,		
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	<p>25932, 81989,  498803, 498796,  289431 794, 11003,  288291 794, 81991,  20146, 23535,  289346 794,  444849 237,  444849 158, 80387,  80386, 81, 95812,  88260, 30723,  32662, 26099,  26097, 26098,  5080157 141,  5080157 162,  88257, 430808 158,  290975 335,  68022 158,  290975 158,  270964 158,  270964 162,  487070 794,  445701 158,  262262 794,  291103 794,  445700 178,  487070 162,  432901 794,  262144 158,  291104 794,  487070 158,  291104 162,  262262 178,  445700 158,  445701 237,  487070 178,  291104 161,  262143 158,  262261 794,  291104 158,  127321, 88262,  88256,  5015021 794,  33331, 33328,  33330, 33329,  AVIF:28018, 88259,  30882, 30885,  30884, 30883,  30886, 88121,  541481,  5024611 794,  271920 162, 23536,  270530,</p>		
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	5120210 794, 5100924 794, 21358, 88258, 172787 794, 62, 89663, 80, 32664, 24404, 20127, 34199, 20118, 24407, 32669, 20167, 5022381 266, 5120986 794, 5069849 794, 5039575 178, 5101190 158, 5024885 794, 5010162 158, 5041436 158, 5095596 794, 5126134 794, 5037081 794, 5078062 152, 5082182 794, 5122532 158, 5021837 178, 5025780 794, 5076911 158, 5039592 794, 5058103 158, 5120705 178, 5055970 794, 5079442 794, 5077370 178, 5121601 158, 5121047 178, 5042208 794, 5078062 158, 5120301 237, 5123324 158, 5038980 158, 5038856 178, 5081923 794, 5056227 794, 5021750 794, 5041591 158, 5101138 158, 5058716 158, 5021906 178, 5039505 794, 5122443 794, 5077605 178, 5039809 794, 5087329 794, 5058314 794,		
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	5109979 794, 5038980 178, 5069472 794, 5050125 266, 5122056 158, 5122532 794, 5021750 178, 5057703 158, 5120301 794, 5056744 794, 5088757 794, 5123795 158, 5039575 794, 5037412 178, 5021750 237, 5041591 794, 5039592 158, 5036922 794, 88261, 1282445, 24450, 20091, 24451, 134, 127322, 33462, 218956 794, 218954 794, 218953 794, 218957 794, 278598 794, 89470, 21356, 30698, 30696, 30699, 30697, 186, 5023321 178, 5013242 794, 5058030 178, 5013241 178, 371		
Fish	No Data	No Data	No Data
Invertebrate	No Data	No Data	No Data
Mammal	No Data	No Data	No Data
Reptile	No Data	No Data	No Data

#### 7.2.4 Ecological Linkages and Vegetation Connectivity

The application area is within a Regional Ecological Linkage. Regional Ecological Linkages should be maintained wherever possible.

The application area is within the following Perth Regional Ecological Linkages:

No Data

The application area is within the following Gngangara Mound Ecological Linkages

Gngangara Mound Ecological Linkage	ha
No Data	0

### 7.3 Principal C – Habitat for Rare Flora

Native vegetation should not be cleared if it includes, or is necessary for the continued existence of rare flora.

#### 7.3.1 Special Protected Flora

The following flora records have been located within 5km of the application area.

Key to the Conservation Status:

CR - Critically Endangered

EN - Endangered

VU - Vulnerable

EX - Extinct

Population ID	WA Rank	Distance (m)
No Data	No Data	

### 7.4 Principal D - Habitat for Threatened Ecological Communities (TEC)

Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of a threatened ecological community.

#### 7.4.1 Threatened Ecological Communities

The following threatened ecological community records have been located within 5km of the application area.

Record ID	Ranking	Distance (m)
114962, 123668, 115078, 114963, 123706, 114843, 114842, 115077, 114759, 114847, 114964, 114844, 114846, 114730, 114845, 114848, 115074, 115075, 114698, 114897, 115076, 114731, 114975, 114974, 115324, 123677, 114727, 114928, 115189, 114969, 114772, 114976, 114968, 123667, 115185, 115184, 114926, 115186, 114967, 114972, 114554, 115187, 114896, 115342, 114927, 114671, 115182, 115188, 115181, 115180, 114973, 114930, 114553, 115183, 114946, 114970, 114929, 114669, 114641, 115056, 114945, 114588, 114966, 114931, 115126, 115151, 114944, 114932, 114971, 115150, 114965, 115125,	Priority 3, Endangered	413.1, 481.2, 482.9, 538.3, 539.1, 554.9, 556.7, 562.9, 563.1, 569.9, 582.7, 585.4, 616.8, 628.2, 629.9, 632.3, 651.8, 678, 734.2, 735.8, 760.9, 762, 765.3, 800.7, 805.5, 806.6, 808.7, 820.6, 827.4, 841, 860.4, 928.1, 931, 943.7, 954.3, 956.9, 992.9, 1005.1, 1018, 1021.4, 1031.8, 1057.3, 1065.5, 1068.1, 1076.2, 1077.2, 1077.7, 1168.5, 1177, 1195.6, 1205.7, 1216.6, 1218.1, 1253.2, 1257.8, 1261.7, 1264.9, 1291.6, 1315.6, 1318.5, 1318.9, 1338.8, 1339.7, 1346, 1358.5, 1381.4, 1402.2, 1406.9, 1425.9, 1427.2, 1435.7, 1440.4, 1467.9, 1480.1, 1485.4, 1502.3, 1504.2, 1526.3, 1535.6, 1544.5, 1554.4,

115127, 114833, 114587, 114586, 114898, 114728, 115052, 115050, 115359, 114670, 115124, 114947, 115128, 115051, 115190, 114805, 115049, 115191, 114729, 115356, 115357, 114688, 115149, 114585, 115139, 114924, 123676, 115355, 123678, 123675, 115140, 114854, 114575, 114788, 115195, 115129, 114957, 114690, 115179, 114941, 114725, 114920, 114726, 114681, 114853, 114940, 114953, 123673, 114804, 114919, 114935, 114939, 115164, 114918, 114956, 114824, 115333, 114954, 115165, 114856, 114921, 115194, 115123, 114937, 115168, 114923, 114938, 115354, 114857, 114826, 114631, 114922, 114855, 123674, 114955, 114936, 115141, 114948, 115163, 115332, 115142, 114832, 114951, 115353, 115143, 114949, 114674, 115169, 114626, 114801, 114685, 115331, 114952, 115063, 115352, 115340, 115144, 115145, 114925, 115341, 115156, 115339, 123708, 114933, 114961, 115162, 115216, 114809, 114960, 115161, 115158, 123709, 114950, 115351, 114806, 114934, 115366, 114958, 115348, 115323, 115069, 114680, 115157, 114959, 114827, 114808, 114707, 115160, 114807, 115159, 114678, 114723, 114841, 114724, 114825, 115202, 105881, 105773, 115055, 114718, 105820, 114717, 115154, 115217, 115155, 115019, 114672, 115203, 115058, 114714, 114708, 105879, 114799, 114716, 114715, 115201,		1555.4, 1563.7, 1565.5, 1569.8, 1582.7, 1588.6, 1598.1, 1605.8, 1620.3, 1625.2, 1636.4, 1638.2, 1648.4, 1677.5, 1683, 1684.1, 1702.3, 1725.7, 1726, 1728.4, 1729.7, 1744.7, 1758.4, 1762.1, 1774.1, 1774.6, 1800.5, 1802.9, 1806.7, 1833.1, 1852.7, 1874.8, 1879.8, 1886, 1893.3, 1930.8, 1934.2, 1957.5, 1973.5, 1988.7, 1994.6, 2015.8, 2018.4, 2018.9, 2025.6, 2032.7, 2063.3, 2066.9, 2071.1, 2074.6, 2105.4, 2107.3, 2119.2, 2122.7, 2131.2, 2136.5, 2149.6, 2175.9, 2180.7, 2184.3, 2186.7, 2196.4, 2197.5, 2211.1, 2215, 2221.4, 2222.3, 2242.5, 2243, 2260.2, 2261.9, 2266.5, 2280.4, 2294.9, 2318.3, 2318.4, 2333.5, 2355.2, 2370.9, 2375.7, 2379.7, 2384.4, 2407.6, 2413.2, 2417.3, 2423.9, 2466.8, 2473.5, 2517.5, 2531.7, 2534.5, 2537.7, 2540.8, 2543.8, 2545.8, 2561.1, 2590.3, 2630.8, 2635.7, 2637.7, 2656, 2668.7, 2676.1, 2686.5, 2703.7, 2715.5, 2737.1, 2755.7, 2765.3, 2766.1, 2780.6, 2806.3, 2810.9, 2825.9, 2827.2, 2850.9, 2869.9, 2892, 2910.2, 2913, 2914, 2921.9, 2926.5, 2942.1, 2952.8, 2960.3, 2971.6, 2985.3, 2991.5, 2993.6, 2996.1, 3051.9, 3070.1, 3085.3, 3122.2, 3122.6, 3164.5, 3183.4, 3195.4, 3309.2, 3314.1, 3319.3, 3322.4, 3343.8, 3346.4, 3352.5, 3357.9, 3393, 3417.2, 3419.1, 3444.2, 3450.2, 3475.1, 3478.7, 3518.8, 3523.7, 3546.1,
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115065, 115367, 114719, 105831, 115068, 114720, 105869, 114721, 114906, 105764, 115041, 114907, 114796, 115369, 114908, 105765, 114795, 115153, 115219, 114905, 114792, 105704, 114791, 114790, 114904, 115152, 105880, 114722, 115218, 105878, 114800, 114903, 114691, 114913, 114793, 114794, 114895, 114910, 110306, 114849, 114798, 114797, 105877, 114911, 105766, 114909, 114915, 110230, 115361, 105801, 114758, 105744, 0, 105745, 114757, 115370, 105742, 110271, 115147, 114912, 110330, 110263, 110328, 110234, 105800, 105760, 105743, 115146, 115067, 110329, 110276, 110266, 110233, 110262, 110304, 110259, 110316, 110282, 114689, 110265, 110228, 122562, 114914, 110267, 105767, 105761, 114810, 110283, 110243, 105747, 105746, 122563, 114894, 110275, 105750, 110278, 110277, 105781, 110269, 110272, 105762, 115148, 114558, 110303, 110268, 110315, 115373, 114942, 110229, 110258, 110305, 115362, 114850, 115363, 114943, 105759, 110273, 110301, 105751, 105752, 105753, 110327, 105763, 110323, 105768, 110302, 105758, 122406, 114704, 104300, 110270, 110279, 110274, 110280, 110281, 110224, 115037, 110300, 105756, 110257, 115334, 105827, 114556, 110264, 110309, 105754		3561.5, 3565.3, 3566.9, 3617.2, 3621.6, 3653, 3664.4, 3666.8, 3671.6, 3673.6, 3690.9, 3694.2, 3699.3, 3720.7, 3724.5, 3750.5, 3755.2, 3759.5, 3760.7, 3777.2, 3777.6, 3780.6, 3800.1, 3801.6, 3804.9, 3805.1, 3817.9, 3835.5, 3844.7, 3848.2, 3849.5, 3860.6, 3873.4, 3875.1, 3881.6, 3902.5, 3912, 3927, 3931.1, 3933.2, 3962.5, 3965.7, 3977.4, 3982.7, 3989.1, 4006.7, 4031.6, 4092.7, 4106.6, 4121.3, 4132.2, 4133.7, 4156.9, 4160.2, 4166.9, 4173.7, 4174.9, 4180.8, 4183.6, 4192.2, 4197, 4204.8, 4211.8, 4214, 4214.1, 4263.7, 4284.7, 4304.3, 4313.3, 4317.8, 4339.2, 4340.8, 4357, 4357.4, 4358.7, 4373.1, 4377.6, 4383.7, 4385.2, 4388.2, 4392.2, 4396.9, 4403.9, 4404.3, 4406.8, 4407, 4427.5, 4431.1, 4438, 4439.9, 4445.4, 4447.8, 4448.5, 4448.8, 4451.7, 4451.8, 4471.3, 4473.3, 4478.4, 4479.9, 4501.3, 4502.3, 4506.5, 4512.1, 4520.1, 4527.3, 4530.8, 4555.4, 4565.1, 4576.7, 4586.2, 4606.1, 4630.4, 4634.5, 4671, 4671.9, 4678.7, 4681.9, 4688.4, 4690.4, 4704.3, 4717.6, 4723.6, 4730.9, 4736.6, 4736.8, 4737.5, 4738, 4745.8, 4748.6, 4748.7, 4791.4, 4796.8, 4804.4, 4810.2, 4818.1, 4827.9, 4840.5, 4862, 4881.1, 4902, 4928, 4944.3, 4957.5, 4973.7, 4980, 5002.4
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## 7.5 Principal E - Mapped Vegetation Description

### 7.5.1 Interim Biogeographical Regionalisation for Australia (IBRA) Region

Swan Coastal Plain / Perth(SWA02)
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### 7.5.2 Beard vegetation associations by IBRA region

IBRA Region	Association	Rarity	Area (ha)

### 7.5.3 Beard vegetation associations by Local Government Authority

LGA	Association	Rarity	Area (ha)

### 7.5.4 Beard Association – Description

Description	Vegetation
Woodland southwest	6

### 7.5.5 Area of Remnant Vegetation within 10km Buffer

Area of remnant vegetation remaining within 10km of the selected area (local area vegetation retention). Land area is based on pre-European extent of Beard Vegetation Association mapping within the 10km buffer.

Veg area:	Land area:	Remnant veg remaining:
53.297 km <sup>2</sup>	302.991 km <sup>2</sup>	17.590

### 7.5.6 South West Region Vegetation Complexes

Complex	ha
Karrakatta Complex-Central and South	0.016

Vegetation complexes occurring within the Swan Coastal Plain and Jarrah Forest are categorised.

Category	Description
A	Vegetation complexes with less than 10% of pre-European extent remaining and < 10% being protected within the Swan Coastal Plain and Jarrah Forest IBRA regions

<b>B</b>	Vegetation complexes with less than 30% of pre-European extent remaining and less than 10% being protected within the Swan Coastal Plain and Jarrah Forest IBRA regions
<b>C</b>	Vegetation complexes with only 1500 ha or 15% or less protected for conservation in the Jarrah Forest IBRA-region
<b>D</b>	Vegetation complexes with only 400 ha or 10% or less protected for conservation on the Swan Coastal Plain portion of Perth and Peel
<b>E</b>	Vegetation complexes with less than 10% of pre-European extent protected within the Swan Coastal Plain and Jarrah Forest IBRA regions (and not already listed above)
<b>F</b>	Vegetation complexes with less than 30% of pre-European extent remaining within the Swan Coastal Plain and Jarrah Forest IBRA regions
<b>G</b>	Vegetation complexes not meeting any of the above criteria

## 7.6 Principal F - Growing in Association with a Watercourse or Wetland

Native vegetation should not be cleared if it is growing in, or in association with, an environment associated with a watercourse or wetland.

### 7.6.1 Within 5km of a Wetland

The site is in or within 5 km of the following Directory of Important Wetlands sites (distance from the application area)

Wetland	Distance (m)
No Data	No Data

### 7.6.2 Within 5km of a Geoscience Australia Mapped Lake

The site is in or within 5 km of the following Geoscience Australia mapped lakes (distance from the application area).

Lake Distance (m)
LAKE JOONDALUP 1701.8m, JANDABUP LAKE 2360.8m, BADGERUP LAKE 2749.2m, WALLUBURNUP SWAMP 2882.3m, BEENYUP SWAMP 2939.5m, Un-named Lake 3220.1m, MARIGINIUP LAKE 3577.5m, LITTLE DUNDARBAR SWAMP 3728.7m, Un-named Lake 4746.2m, LAKE GOOLLELAL 4750.0m, GNANGARA LAKE 4970.6m, LITTLE MARIGINIUP LAKE 4995.8m

### 7.6.3 Within 50 m of a Geomorphic Wetland

The site is within 50m of a geomorphic wetland.

ID	Classification	Distance (m)
No_Data	No Data	0

## 7.7 Principle G - Likely to Cause Appreciable Land Degradation

Native vegetation should not be cleared if the clearing of the vegetation is likely to cause appreciable land degradation.

Acid Sulphate Soil	
Risk Category	No Data
Soil	
Soil Name	Karrakatta Sand Yellow Phase
Geomorphology	Low hilly to gently undulating terrain. Yellow sand over limestone at 1-2 m. Banksia spp. woodland with scattered emergent E. gomphocephala and E. marginata and a dense shrub layer.
Soil Symbol Category	211Sp__Ky
Salinity	
Salinity Risk	<500 mg/L
Hydrogeology	
Coastal Plain	Coastal & fixed sand dunes & calcarenite. Non-calcareous sands, podsolised soils with low-lying wet areas. Further inland, alluvial

	deposits, colluvial deposits adjacent to the Darling Scarp. Clayey to sandy alluvial soils with wet areas.
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### 7.8 Principle H – Impacts to Conservation area

Native vegetation should not be cleared if the clearing of the vegetation is likely to have an impact on the environmental values of any conservation area within a 5km buffer.

Bush Forever	Bush Forever Site ID 471 - 813.5m, Bush Forever Site ID 299 - 1501.0m, Bush Forever Site ID 324 - 1602.3m, Bush Forever Site ID 327 - 1670.8m, Bush Forever Site ID 470 - 2660.3m, Bush Forever Site ID 469 - 3352.7m, Bush Forever Site ID 147 - 3495.9m, Bush Forever Site ID 164 - 3909.4m, Bush Forever Site ID 463 - 4068.6m, Bush Forever Site ID 326 - 4122.1m, Bush Forever Site ID 193 - 4935.3m
Regional Park	No Data
Red Book Reserve	No Data

### 7.9 Principle I -Deterioration in the Quality of Surface or Underground Water

Native vegetation should not be cleared if the clearing of the vegetation is likely to cause deterioration in the quality of surface or underground water. For surface water features affected by clearing area see 2.6 Principle (f).

#### 7.9.1 RIWI Act Area and PDWSA

<b>RIWI Act Area</b>	Perth Groundwater Area
<b>Public Drink Water Source Area (PDWSA)</b>	No Data

#### 7.9.2 Terrestrial Water Dependent Ecosystem

The site is within the following Terrestrial Water Dependent Ecosystems.

<b>Name</b>	<b>Type</b>	<b>Area (ha)</b>
No Data	No Data	No Data

#### 7.10 Principle J -Flooding

Native vegetation should not be cleared if the clearing of the vegetation is likely to cause, or exacerbate, the incidence or intensity of flooding.

The site is within the following DAFWA Land Quality flood risk categories

<3% of the map unit has a moderate to high flood risk
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## 8 Appendix 2- Planning Instruments and Other Relevant Matters

### 8.1 Within 5km of Forest Management 2014 Proposed Reserve

The site is within 5km of the following Forest Management Plan 2014 proposed reserves.

<b>Forest Management 2014 Proposed Reserve</b>
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No Data - Distance No Datam
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### 8.2 Within 5km of DAFWA Mapped Landuse

The site is within 5km of the following DAFWA mapped landuses.

No Data - Distance No Datam
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### 8.3 DAA Site

The site overlies or is adjacent to the following Department of Aboriginal Affairs heritage sites.

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### 8.4 Local Planning Scheme Zones

The site overlies or is adjacent to the following local planning scheme zones

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### 8.5 Regional Scheme Zones

The site overlies or is adjacent to the following Regional Scheme classes

Urban
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### 8.6 Representative Aboriginal / Torres Strait Islander Body Area

The site is within the following Representative Aboriginal/Torres Strait Islander Body areas.

South West - South West Aboriginal Land and Sea Council
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## 9 Appendix 3- Parameter for Principals A to I

Principal	Flag	Definition
A	Green	The vegetation is in a degraded or completely degraded (Keighery 1994) condition and there is no fauna, flora, PEC and TEC records within the local area. If ALL principles B, C, D, and E are green
	Orange	The vegetation is in a good or better (Keighery 1994) condition and there are flora, fauna, PEC, and TEC records within 5 - 10 km of the application area. If ANY principles B, C, D and E are orange
	Red	The vegetation is in a good or better (Keighery 1994) condition and there is flora, fauna, PEC, and TEC records within 5km of the application area. If ANY of the principles B, C, D and E are red
B	Green	If within the applicant area there are no fauna records within 10km, and the vegetation is in a degraded or less (Keighery 1994) condition; No hollows are present after a visual assessment
	Orange	If there are Carnaby records within 10km; the application area may contain hollows; other fauna records within 5-10km; if the vegetation is in a good or better (Keighery 1994) condition.
	Red	If there are Carnaby records within 10km; hollows are present in the application area; other fauna records within 5km; vegetation is in a good or better (Keighery 1994) condition.
C	Green	No records of DRF within 10km of the application area or not the same vegetation and soil type as DRF records in 10km
	Orange	If the vegetation community and soil type mapped in the application area is the same as a DRF record within 10km. If the vegetation is in a good or better (Keighery 1994) condition
	Red	A DRF record or 50 m buffer of a DRF record is within the application area. If the the vegetation community and soil type mapped in the application area is he same as a DRF record within 5km. If the vegetation is in a good or better (Keighery 1994) condition
D	Green	No records within 10km of the application area.
	Orange	Records within 10km of the application area
	Red	Records within 5km of the application area
E	Green	If the vegetation represented in the application area is more than 30% and principle B, C, and D are green
	Orange	If the vegetation communities mapped in the application area are less than 30% or 10% in DER region. If the native vegetation in the local area is less than 30% and principle B, C, or D are orange
	Red	If vegetation communities mapped in the application area are less than 30% or 10% in a constrained area. If the native vegetation in the local area is less than 30% and principle B, C, or D are red
F	Green	There are no water courses or wetlands or vegetation is growing in association with a watercourse or wetland in the application area
	Orange	There is a water course or wetland within 50m or the possibility that vegetation is growing in association watercourse or wetland in the application area
	Red	The application area intersects with a mapped wetland/watercourse or if vegetation is growing in association with a watercourse or wetland
G	Green	The application does not intersect with a ASS site or area subject to erosion
	Orange	The application intersects with a high risk ASS site and/or site at high risk of erosion

	Red	The application is greater than 5ha and intersects with a high risk ASS site, and/or, site at high risk of erosion
H	Green	The application area is more than 50m from a conversation area.
	Orange	The application is within 50m of a conservation area.
	Red	The application area intersects with a conservation area, or is directly adjacent to a reserve.
I	Green	The application area does not fall within the Red or Orange flag categories for "Principle I"
	Orange	The application area intersects with a mapped wetland/watercourse, or the application area intersects with vegetation growing in association with a watercourse or wetland. And/or falls within a RIWI, PDWSA, CAWS area
	Red	The application area is more than 5Ha and intersects with a wetland/watercourse. Or the application intersects with vegetation growing in association with a watercourse or wetland and is within a RIWI, PDWSA, or CAWS area

10 Appendix 4- Metadata

Schema_Name	Table_Name	Function_Name
nvc	Principal_Index	nvc.Principle_A
dbo	TecPecs_boundaries_28062021	nvc.Principle_A
epc	Threatened_Priority_Fauna_5km_Buffer	nvc.Principle_B
dbo	Slip_CarnabyConfirmedBreeding_054	nvc.Principle_B
dbo	Slip_CarnabyUnconfirmedBreeding_055	nvc.Principle_B
Enviro	Potential_Quenda_Habitat_clipped	nvc.Principle_B
Enviro	Birds_Australia_IBA_2009	nvc.Principle_B
epc	Carnaby_Cockatoo_feeding_habitat_DBCA-057_clipped	nvc.Principle_B
epc	CarnabysCockatooConfirmedRoostSitesDBCA_050_clipped	nvc.Principle_B
epc	CarnabysCockatooUnconfirmedRoostSitesDBCA_051	nvc.Principle_B
Enviro	Declared_Rare_Priority_Flora	nvc.Principle_C
dbo	Slip_ThreatEcoComm_038	nvc.Principle_D
nvc	Principal_Index	nvc.Principle_E
Enviro	NativeVegetationDPIRD_005_clipped	nvc.Principle_E
carto	Carto_Australia_Water_Ways_Line	nvc.Principle_F
dbo	slip_geomorphic_wetland	nvc.Principle_F
dbo	slip_lake_epp	nvc.Principle_F
epc	Section_7-7_Acid_Sulfate_Soils	nvc.Principle_G
dbo	slip_bush_forever	nvc.Principle_H
dbo	slip_geomorphic_wetland	nvc.Principle_H
epc	Leg_LandsandWatersDBCA_011_clipped	nvc.Principle_H
dbo	vw_COW_Park_Reserve	nvc.Principle_H
epc	PDWSA_Wanneroo	nvc.Principle_I
carto	Carto_Australia_Water_Ways_Line	nvc.Principle_I
dbo	slip_geomorphic_wetland	nvc.Principle_I
dbo	slip_lake_epp	nvc.Principle_I
Enviro	Clearing_Regs_Enviro_Sensitive_Areas_DWER_046	nvc.Section_2_Site_Details
nvc	EPA_Redbook_Reserves_DBCA_029	nvc.Section_2_Site_Details
dbo	Contour_1m	nvc.Section_3_Applicant_Site_Attribute_Contour
Enviro	Soil_Landscape_Mapping_DPIRD	nvc.Section_3_Applicant_Site_Attributes
nvc	Section_3_Applicant_Site_Attribute_Contour	nvc.Section_3_Applicant_Site_Attributes
epc	Fauna_ThreatPriorityFauna_DBCA	nvc.Section_7_1_1_Specially_Protected_Fauna
epc	Fauna_ThreatPriorityFauna_DBCA	nvc.Section_7_1_2_Priority_Fauna
NULL	Slip_Threat_Priority_Flora_036	nvc.Section_7_1_3_Specially_Protected_Flora
dbo	Slip_Threat_Priority_Flora_036	nvc.Section_7_1_3_Specially_Protected_Flora
dbo	Slip_Threat_Priority_Flora_036	nvc.Section_7_1_4_Priority_Flora
dbo	ThreatEcoComm_038	nvc.Section_7_1_5_Threatened_Ecological_Communities
dbo	ThreatEcoComm_038	nvc.Section_7_1_6_Priority_Ecological_Communities
dbo	Slip_Enviro_Sensitive_Area_046	nvc.Section_7_1_8_Environmentally_Sensitive_Area
nvc	Flood_Risk_DPIRD_007	nvc.Section_7_10_Principle_J_Flooding
Enviro	Birds_Australia_IBA_2009	nvc.Section_7_2_2_Important_Birding_Areas
dbo	Slip_ThreatPriorityFauna_037	nvc.Section_7_2_3_Specially_Protected_Fauna
Enviro	Regional_Ecological_Linkages	nvc.Section_7_2_4_Regional_Ecological_Linkage
Enviro	GSS_Ecological_Linkages	nvc.Section_7_2_5_GSS_Ecological_Linkages
dbo	Slip_Threat_Priority_Flora_036	nvc.Section_7_3_1_Special_Protected_Flora

dbo	TecPecs_boundaries_28062021	nvc.Section_7_4_1_Threatened_Ecological_Communities
SLIP	BEARD_IBRA_Postclearing	nvc.Section_7_5_2_Beard_Vegetation_Assocation_By_IBRA_Region
SLIP	Beard_Assoc_by_IBRA_SubRegion	nvc.Section_7_5_3_Beard_Vegetation_Assocation_By_LGA_IBRA_SubRegion
Enviro	Pre_EuropeanVegetationDPIRD_006_clipped	nvc.Section_7_5_4_Beard_Association_Description
Enviro	VegetationComplexes_SwanCoastalPlainDBCA_046_clipped	nvc.Section_7_5_5_Enviro_Vegetation
Enviro	NativeVegetationDPIRD_005_clipped	nvc.Section_7_5_5_Enviro_Vegetation
nvc	Dir_Important_Wetlands_DBCA_045	nvc.Section_7_6_1_Principal_F_Within_5km_Wetland
nvc	Geoscience_Lake	nvc.Section_7_6_2_Principal_F_Wiithin_5km_Geoscience_Au_Mapped_Lake
dbo	slip_geomorphic_wetland	nvc.Section_7_6_3_Within50m_Geomorphic_Wetland
dbo	Slip_Acid_Sulphate_Soil	nvc.Section_7_7_Principal_G_Land_Degradation
dbo	Slip_SoilLandscapeBestAvail_027	nvc.Section_7_7_Principal_G_Land_Degradation
SLIP	Groundwater_Salinity_DWER026	nvc.Section_7_7_Principal_G_Land_Degradation
dbo	slip_bush_forever	nvc.Section_7_8_1_Bush_Forever
epc	RegionalParksDBCA026_clipped	nvc.Section_7_8_2_Regional_Park
nvc	EPA_Redbook_Reserves_DBCA_029	nvc.Section_7_8_3_Red_Book
nvc	EPA_Redbook_Reserves_DBCA_029	nvc.Section_7_8_Principal_H_Impacts_to_Conservation_Area
epc	RegionalParksDBCA026_clipped	nvc.Section_7_8_Principal_H_Impacts_to_Conservation_Area
dbo	slip_bush_forever	nvc.Section_7_8_Principal_H_Impacts_to_Conservation_Area
SLIP	RIWI_Act_GroundwaterAreasDWER034	nvc.Section_7_9_1_RIWI_Act_PDWSA
SLIP	PublicDrinkWaterSourcAreaDWER033	nvc.Section_7_9_1_RIWI_Act_PDWSA
nvc	GDE_Terrestrial_Ecosystem	nvc.Section_7_9_2_Groundwater_Dependent_Ecosystem
nvc	Forest_Man_Plan_2014_2023_DBCA_041	nvc.Section_8_2_Forest_Man_Plan_2014_2023
nvc	Forest_Man_Plan_2014_2023_DBCA_041	nvc.Section_8_2_Forest_Man_Plan_2014_2023_orig
nvc	Generalised_Ag_Landuse_DPIRD_003	nvc.Section_8_3_DAFWA_Landuse
Planning	dps2	nvc.Section_8_5_Local_Planning_Scheme_Zone
Planning	mrs	nvc.Section_8_6_Regional_Planning_Scheme_Zone

## 11 References

Keighery, B.J. (1994) Bushland Plant Survey: A Guide to Plant Community Survey for the Community. Wildflower Society of WA (Inc). Nedlands, Western Australia.