



GOVERNMENT OF  
WESTERN AUSTRALIA

## CLEARING PERMIT

*Granted under section 51E of the Environmental Protection Act 1986*

|                               |                           |
|-------------------------------|---------------------------|
| <b>Purpose Permit number:</b> | CPS 6541/2                |
| <b>Permit Holder:</b>         | Chevron Australia Pty Ltd |
| <b>Duration of Permit:</b>    | 7 May 2016 to 7 May 2021  |

The Permit Holder is authorised to clear native vegetation subject to the following conditions of this Permit.

### PART I – CLEARING AUTHORISED

#### 1. Purpose for which clearing may be done

Clearing for the purpose of undertaking the Onslow Utilities Infrastructure Upgrade Project.

#### 2. Land on which clearing is to be done

Lot 85 on Plan 215492 (Reserve 38264), Onslow  
Lot 81 on Plan 184611 (Reserve 37346), Onslow  
Lot 102 on Plan 185612 (Reserve 38337), Onslow  
Lot 880 on Plan 402083 (Reserve 51992), Onslow  
Lot 881 on Plan 402083, (Reserve 47957), Onslow  
Lot 882 on Plan 402083, Onslow  
Lot 883 on Plan 402083, (Reserve 19291), Onslow  
Lot 884 on Plan 402083, (Reserve 38264), Onslow  
Lot 885 on Plan 402083, (Reserve 20632), Onslow  
Lot 15 on Plan 144118, Onslow  
Lot 16 on Plan 161140, Onslow  
Lot 132 on Plan 168861, Onslow  
Lot 305 on Plan 49430, Onslow  
Lot 886 on Plan 402083, Onslow  
Lot 887 on Plan 402083, Onslow  
Lot 888 on Plan 402083, Onslow  
Lot 889 on Plan 402083, Onslow  
Lot 890 on Plan 402083, Onslow  
Lot 891 on Plan 402083, Onslow  
Lot 893 on Plan 402083, Onslow  
Lot 207 on Plan 219197, Onslow  
Lot 282 on Plan 219235, Onslow  
Lot 283 on Plan 219235, Onslow  
Lot 301 on Plan 45790, Onslow  
Lot 152 on Plan 220265, Talandji  
Lot 186 on Plan 219155, Talandji  
Lot 280 on Plan 219235, Talandji  
Lot 519 on Plan 69198, Talandji  
Lot 556 on Plan 74894, Talandji  
Lot 557 on Plan 74894, Talandji  
Lot 558 on Plan 71346, Talandji  
Lot 561 on Plan 71346, Talandji  
Lot 149 on Plan 220384, Peedamulla  
Lot 279 on Plan 219235, Peedamulla  
Lot 281 on Plan 219235, Peedamulla  
Lot 306 on Plan 45640, Peedamulla  
Unallocated Crown Land (PINs 12160548, 12166708, 11866150, 11953192), Onslow

Road reserves (PINs 12185014, 11788844, 11732965, 11732966, 11730565, 11732962, 11932769), Onslow, Peedamulla and Talandji  
Water Feature (PIN 11953180), Onslow

### 3. Area of Clearing

The Permit Holder must not clear more than 389 hectares of native vegetation within the area cross hatched yellow on attached Plan 6541/2.

### 4. Application

This Permit allows the Permit Holder to authorise persons, including employees, contractors and agents of the Permit Holder, to clear native vegetation for the purposes of this Permit subject to compliance with the conditions of this Permit and approval from the Permit Holder.

## PART II – MANAGEMENT CONDITIONS

### 5. Weed control

When undertaking any clearing or other activity pursuant to this Permit, the Permit Holder must take the following steps to minimise the risk of the introduction and spread of *weeds*:

- (a) Clean earth-moving machinery of soil and vegetation prior to entering and leaving the area to be cleared;
- (b) Ensure that no *weed*-affected soil, *mulch*, *fill* or other material is brought into the area to be cleared; and
- (c) Restrict the movement of machines and other vehicles to the limits of the areas to be cleared.

### 6. Flora management

- (a) Prior to undertaking any clearing within the inland sand dune vegetation units ID1 and ID2 and claypan vegetation unit C3, as identified within the 'Wheatstone Project, Desktop Review of the Proposed Onslow Micro-Siting Survey Area' the Permit Holder shall engage a *botanist* to undertake a Level 2 survey of the ID1, ID2 and C3 areas to be cleared in accordance with *Guidance Statement No. 51* to identify possible occurrences of, and habitat suitable for *priority flora*.
- (b) Prior to undertaking any clearing, where an area has been identified in accordance with condition 6(a) as containing possible occurrences of, and habitat suitable for *priority flora*, the Permit Holder shall engage a *botanist* to inspect that area for the presence of *priority flora*.
- (c) Where *priority flora* are identified in relation to condition 6(b) of this Permit, the Permit Holder shall ensure that:
  - (i) no clearing occurs within 50 metres of identified priority 1 flora, unless approved by the CEO in writing;
  - (ii) no clearing occurs within 20 metres of identified priority 2, 3 and 4 flora, unless approved by the CEO in writing; and
  - (iii) no clearing of identified *priority flora* occurs unless approved by the CEO in writing.

### 7. Fauna management

- (a) In relation to the area cross hatched yellow on attached Plan 6541/2, the Permit Holder must engage a *fauna specialist* to be present on site for the duration of clearing to identify the presence of terrestrial fauna listed in the *Wildlife Conservation (Specially Protected Fauna) Notice* and *priority fauna*.
- (b) Clearing must cease in any area where any terrestrial fauna listed in the *Wildlife Conservation (Specially Protected Fauna) Notice* and *priority fauna* are identified until either:
  - (i) the individual(s) has been removed by a *fauna specialist*; or
  - (ii) the individual(s) has moved on from that area to adjoining suitable habitat.
- (c) Any terrestrial fauna listed in the *Wildlife Conservation (Specially Protected Fauna) Notice* and *priority fauna* removed in accordance with condition 7(b)(i) of this Permit must be relocated by a *fauna specialist* to an area of suitable habitat.

### 8. Retain vegetative material and topsoil, revegetation and rehabilitation

The Permit Holder shall:

- (a) Retain the vegetative material and topsoil removed by clearing authorised under this Permit and stockpile the vegetative material and topsoil in an area that has already been cleared.

- (b) Within 12 months following the completion of extractive activities, *revegetate* and *rehabilitate* the area(s) that are no longer required for the purpose for which they were cleared under this Permit by:
  - (i) re-shaping the surface of the land so that it is consistent with the surrounding 5 metres of uncleared land; and
  - (ii) ripping the ground on the contour to remove soil compaction; and
  - (iii) ripping the pit floor and contour batters within the extraction site; and
  - (iv) laying the vegetative material and topsoil retained under condition 8(a) on the cleared area.
- (c) Within 24 months of laying the vegetative material and topsoil on the cleared area in accordance with condition 8(b) of this Permit:
  - (i) engage an *environmental specialist* to determine the species composition, structure and density of the area *revegetated* and *rehabilitated*; and
  - (ii) where, in the opinion of an *environmental specialist*, the species composition structure and density determined under condition 8(c)(i) of this Permit will not result in a similar species composition, structure and density to that of pre-clearing vegetation types in that area, *revegetate* the area by deliberately *planting* and/or *direct seeding* native vegetation that will result in a similar species composition, structure and density of native vegetation to pre-clearing vegetation types in that area and ensuring only *local provenance* seeds and propagating material are used.
- (d) Where additional *planting* or *direct seeding* is undertaken in accordance with condition 8(c)(ii) of this permit, the Permit Holder shall repeat condition 8(c)(i) and 8(c)(ii) within 24 months of undertaking the additional *planting* or *direct seeding* of native vegetation.
- (e) Where a determination by an *environmental specialist* that the composition, structure and density within areas *revegetated* and *rehabilitated* will result in a similar species composition, structure and density to that of pre-clearing vegetation types in that area, as determined in condition 8(c)(i) and (ii) of this permit, that determination shall be submitted for the CEO's consideration. If the CEO does not agree with the determination made under condition 8(c)(ii), the CEO may require the Permit Holder to undertake additional *planting* and *direct seeding* in accordance with the requirements under condition 8(c)(ii).

### **PART III – MONITORING, RECORD KEEPING AND REPORTING**

#### **9. Records to be kept**

The Permit Holder must maintain the following records for activities done pursuant to this Permit:

- (a) In relation to the clearing of native vegetation authorised under this Permit:
  - (i) the location where the clearing occurred, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings or decimal degrees;
  - (ii) the date that the area was cleared; and
  - (iii) the size of the area cleared (in hectares).
- (b) In relation to the *revegetation* and *rehabilitation* of areas pursuant to condition 8 of this Permit:
  - (i) the location of any areas *revegetated* and *rehabilitated*, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings or decimal degrees;
  - (ii) a description of the *revegetation* and *rehabilitation* activities undertaken;
  - (iii) the size of the area *revegetated* and *rehabilitated* (in hectares);
  - (iv) the species composition, structure and density of *revegetation* and *rehabilitation*, and
  - (v) a copy of the environmental specialist's report.
- (b) In relation to flora management pursuant to condition 6 of this Permit:
  - (i) the location of each *priority flora* species recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings or decimal degrees;
  - (ii) the species name of each *priority flora* species identified; and
  - (iii) a copy of the *botanist's* flora survey report.

## 10. Reporting

- (a) The Permit Holder must provide to the CEO on or before 30 June of each year, a written report:
  - (i) of records required under condition 9 of this Permit; and
  - (ii) concerning activities done by the Permit Holder under this Permit between 1 January to 31 December of the preceding calendar year.
- (b) If no clearing authorised under this Permit was undertaken between 1 January to 31 December of the preceding calendar year, a written report confirming that no clearing under this permit has been carried out, must be provided to the CEO on or before 31 December of each year.
- (c) Prior to 30 January 2021, the Permit Holder must provide to the CEO a written report of records required under condition 9 of this Permit where these records have not already been provided under condition 10(a) of this Permit.

## DEFINITIONS

The following meanings are given to terms used in this Permit:

**botanist:** means a person who holds a tertiary qualification in environmental science or equivalent, and has a minimum of 2 years work experience in identification and surveys of flora native to the bioregion being inspected or surveyed, or who is approved by the CEO as a suitable botanist for the bioregion;

**direct seeding** means a method of re-establishing vegetation through the establishment of a seed bed and the introduction of seeds of the desired plant species;

**environmental specialist** means a person who is engaged by the Permit Holder for the purpose of providing environmental advice, who holds a tertiary qualification in environmental science or equivalent, and has experience relevant to the type of environmental advice that an environmental specialist is required to provide under this Permit;

**fauna specialist:** means a person who holds a tertiary qualification specializing in environmental science or equivalent, and has a minimum of 2 years work experience in fauna identification and surveys of fauna native to the region being inspected or surveyed, or who is approved by the CEO as a suitable fauna specialist for the bioregion, and who holds a valid fauna licence issued under the *Wildlife Conservation Act 1950*;

**fill** means material used to increase the ground level, or fill a hollow;

**Guidance Statement No. 51** means the Environmental Protection Authority Guidance Statement No 51, Guidance for the Assessment of Environmental Factors - Terrestrial Flora and Vegetation Surveys for Environmental Impact Assessment in Western Australia (2004);

**local provenance** means native vegetation seeds and propagating material from natural sources within 10 kilometres and the same Interim Biogeographic Regionalisation for Australia (IBRA) subregion of the area cleared.

**mulch** means the use of organic matter, wood chips or rocks to slow the movement of water across the soil surface and to reduce evaporation;

**planting** means the re-establishment of vegetation by creating favourable soil conditions and planting seedlings of the desired species;

**priority fauna:** means those fauna taxa describes as priority fauna, classes 1, 2, 3, 4 or 5 in the *Department of Parks and Wildlife's Threatened and Priority Fauna Rankings List for Western Australia* (as amended);

**priority flora** means those plant taxa described as priority flora classes 1, 2, 3, 4 or 5 in the *Department of Parks and Wildlife's Threatened and Priority Flora List for Western Australia* (as amended);

**rehabilitate/ed/ion** means actively managing an area containing native vegetation in order to improve the ecological function of that area;

**revegetate/ed/ion** means the re-establishment of a cover of *local provenance* native vegetation in an area using methods such as natural *regeneration*, *direct seeding* and/or *planting*, so that the species composition, structure and density is similar to pre-clearing vegetation types in that area.

**weed/s** means any plant -

- (a) that is a declared pest under section 22 of the *Biosecurity and Agriculture Management Act 2007*; or
- (b) published in a Department of Parks and Wildlife Regional Weed Rankings Summary, regardless of ranking; or
- (c) not indigenous to the area concerned.

**Wildlife Conservation (Specially Protected Fauna) Notice** means those fauna taxa gazetted as rare fauna pursuant to section 14(4)(a) of the *Wildlife Conservation Act 1950* (as amended).



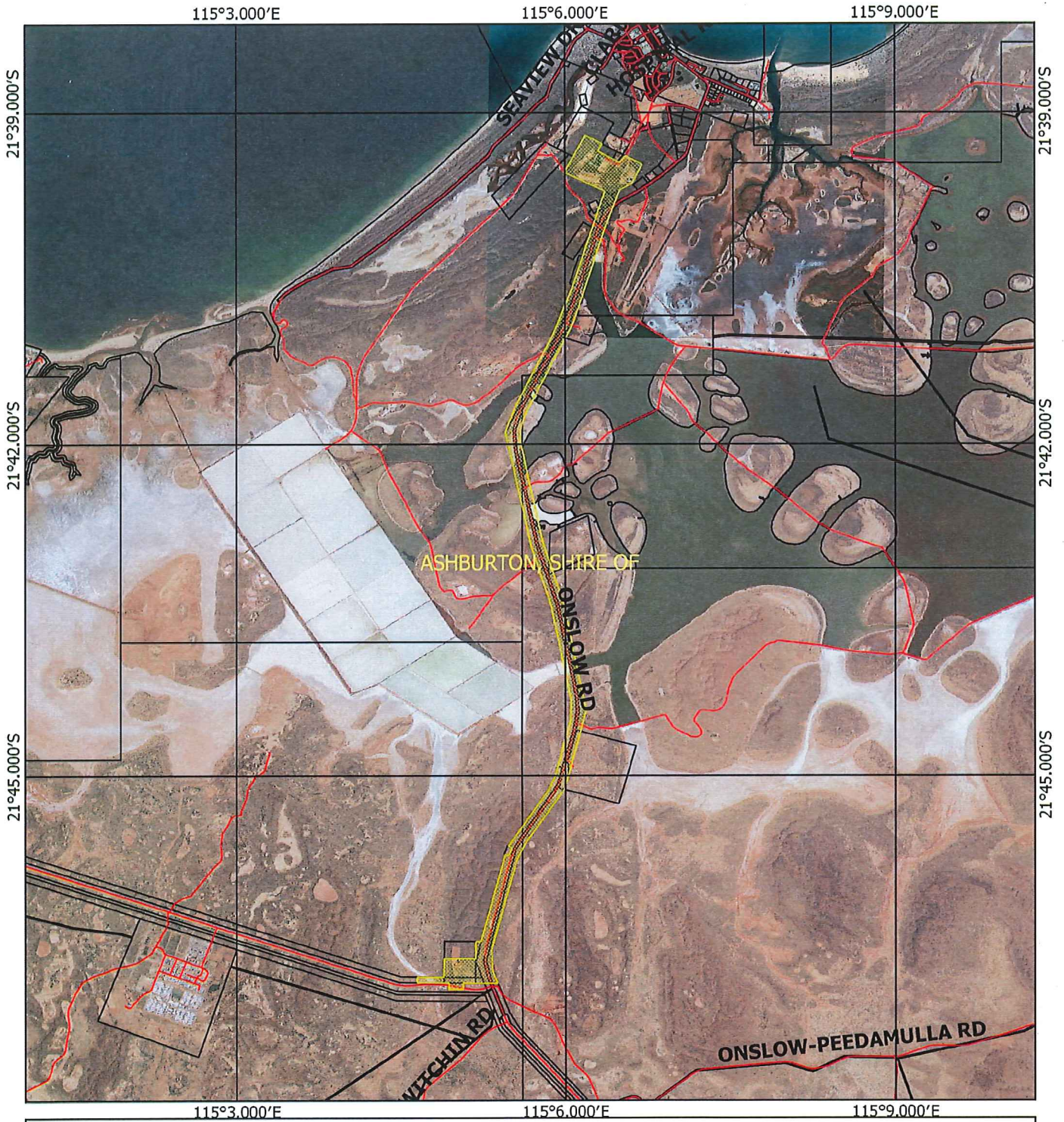
Dr Anne Mathews  
SENIOR MANAGER  
CLEARING REGULATION

*Officer delegated under Section 20  
of the Environmental Protection Act 1986*





24 November 2016



# Plan 6541/2



**Legend**

-  Roads
-  LGA
-  Cadastre
- Virtual Mosaic (LGATE-V001)
- 



1:70,000

MGA 94  
Geocentric Datum of Australia 1994

*Sarah Matthews* 24/11/2016  
.....Date.....

Officer with delegated authority under Section 20  
of the Environmental Protection Act 1986







## 1. Application details

### 1.1. Permit application details

Permit application No.: 6541/2  
Permit type: Purpose Permit

### 1.2. Applicant details

Applicant's name: Chevron Australia Pty Ltd

### 1.3. Property details

Property:

ROAD RESERVES (PINs 12185014, 11788844, 11732965, 11732966,, 11730565, 11732962 11932769), Onslow, Peedamulla and Talandji  
UNALLOCATED CROWN LAND (PINs 12160548, 12166708, 11866150, 11953192), ONSLOW  
WATER FEATURE (PIN - 11953180), ONSLOW  
LOT 102 ON PLAN 185612 (Reserve 38337), ONSLOW  
LOT 132 ON PLAN 168861, ONSLOW  
LOT 149 ON PLAN 220384, PEEDAMULLA  
LOT 152 ON PLAN 220265, TALANDJI  
LOT 15 ON PLAN 144118, ONSLOW  
LOT 16 ON PLAN 161140, ONSLOW  
LOT 186 ON PLAN 219155, TALANDJI  
LOT 207 ON PLAN 219197, ONSLOW  
LOT 279 ON PLAN 219235, PEEDAMULLA  
LOT 280 ON PLAN 219235, TALANDJI  
LOT 281 ON PLAN 219235, PEEDAMULLA  
LOT 282 ON PLAN 219235, ONSLOW  
LOT 283 ON PLAN 219235, ONSLOW  
LOT 301 ON PLAN 45790, ONSLOW  
LOT 305 ON PLAN 49430, ONSLOW  
LOT 306 ON PLAN 45640, PEEDAMULLA  
LOT 519 ON PLAN 69198, TALANDJI  
LOT 556 ON PLAN 74894, TALANDJI  
LOT 557 ON PLAN 74894, TALANDJI  
LOT 558 ON PLAN 71346, TALANDJI  
LOT 561 ON PLAN 71346, TALANDJI  
LOT 81 ON PLAN 184611 (Reserve 37346), ONSLOW  
LOT 85 ON PLAN 215492 (Reserve 38264), ONSLOW  
LOT 880 ON PLAN 402083 (Reserve 51992), ONSLOW  
LOT 881 ON PLAN 402083, (Reserve 47957), ONSLOW  
LOT 882 ON PLAN 402083, ONSLOW  
LOT 883 ON PLAN 402083, (Reserve 19291), ONSLOW  
LOT 884 ON PLAN 402083, (Reserve 38264), ONSLOW  
LOT 885 ON PLAN 402083, (Reserve 20632), ONSLOW  
LOT 886 ON PLAN 402083, ONSLOW  
LOT 887 ON PLAN 402083, ONSLOW  
LOT 888 ON PLAN 402083, ONSLOW  
LOT 889 ON PLAN 402083, ONSLOW  
LOT 890 ON PLAN 402083, ONSLOW  
LOT 891 ON PLAN 402083, ONSLOW  
LOT 893 ON PLAN 402083, ONSLOW

Local Government Authority: ASHBURTON, SHIRE OF  
DER Region: North West  
DPaW District: ASHBURTON  
Localities: PEEDAMULLA, ONSLOW and TALANDJI

### 1.4. Application

|                    |           |                    |   |
|--------------------|-----------|--------------------|---|
| Clearing Area (ha) | No. Trees | Method of Clearing | For the purpose of:                         |
| 389                |           | Mechanical Removal | Water/gas/cable/pipeline/power installation |

### 1.5. Decision on application

Decision on Permit: Granted  
Application:  
Decision Date: 24 November 2016  
Reasons for Decision: The applicant has applied to amend Clearing Permit CPS 6541/1 to remove the clearing area

associated with Lot 555 on Deposited Plan 74894, Talandji.

The application to amend Clearing Permit CPS 6541/1 was assessed against the clearing principles, planning instruments and other matters in accordance with section 51O of the *Environmental Protection Act 1986*. The Delegated Officer determined that the environmental impacts of the proposed clearing have not changed since the original assessment, and has concluded that the proposed clearing is at variance to principle (f), may be at variance to principle (a), is not at variance to principle (e) and is not likely to be at variance to the remaining clearing principles.

The Delegated Officer determined that the clearing may impact priority flora species and conservation significant terrestrial fauna species. Permit conditions for flora management measures, that restrict any clearing within 50 metres of identified priority 1 flora species and within 20 metres of priority 2, 3 and 4 flora species will minimise impacts on priority flora species. Conditioned fauna management measures that involve a pre-clearing inspection of the clearing area for conservation significant fauna, and subsequent removal and relocation of any conservation significant fauna identified, will help to minimise impacts to fauna species.

The assessment has determined that the clearing will impact on 24.35 hectares of tidal mudflat and tidal creek habitats. The use of horizontal directional drilling for installation of the water pipeline and long span power transmission lines that will not require supporting poles will help to ensure that normal water flow is maintained and current hydrological systems are not adversely impacted.

The applicant has received works approval from the Department of Environment Regulation (DER) for a power station associated with the project. DER has provided in principle agreement for works approval associated with a desalination plant, pending approval from the Radiological Council.

Relevant State policies and other relevant policies have been taken into consideration in the decision to grant a clearing permit.

## 2. Site Information

### 2.1. Existing environment and information

#### 2.1.1. Description of the native vegetation under application

| Vegetation Description   | Clearing Description   | Vegetation Condition   | Comment   |
|--|--|--|---|
| Beard vegetation association 676 is described as succulent steppe; samphire (Shepherd et al., 2001).   | Chevron Australia Pty Ltd has applied to clear 389 hectares of native vegetation within various properties, road reserves, unallocated Crown land and water feature, Onslow, Peedamulla and Talandji for the purpose of undertaking the Onslow Utilities Infrastructure Upgrade Project. | Very Good; Vegetation structure altered; obvious signs of disturbance (Keighery, 1994)                       | Several flora and vegetation based studies, covering various portions of the current application area have been previously undertaken. These studies together with aerial imagery were incorporated to form a desktop study of the application area by Biota Environmental Services (2013). This desktop study identified 15 vegetation units amongst six vegetation habitat classifications within the application area. |
| Beard vegetation association 117 is described as hummock grasslands, grass steppe; soft spinifex (Shepherd et al., 2001).                                  |  | To   | <b>Tidal Mudflats and Tidal Creeks Habitat</b><br>Vegetation unit T1 comprises bare mudflats and areas of <i>Tecticornia spp.</i> scattered low shrubs.   |
| Beard vegetation association 127 is described as bare areas; mud flats (Shepherd et al., 2001).  |  | Completely Degraded: No longer intact; completely /almost completely without native species (Keighery, 1994) | <b>Coastal Sand Dunes Habitat</b><br>Vegetation unit CD1 comprises <i>Acacia coriacea subsp. Coriacea</i> , <i>Crotalaria cunninghamii</i> tall shrubland over <i>Spinifex longifolius</i> and <i>Cenchrus ciliaris</i> (exotic) open tussock grassland.  |
| Beard vegetation association 670 is described as hummock grasslands, shrub steppe; scattered shrubs over <i>Triodia basedowii</i> (Shepherd et al., 2001). |  |  | Vegetation unit CD2 comprises <i>Acacia coriacea subsp. coriacea</i> tall shrubland over <i>Crotalaria cunninghamii</i> , <i>Trichodesma zeylanicum var. grandiflorum</i> open shrubland over <i>Triodia epactia</i> open hummock grassland and open tussock grassland.   |
|  |  |  | <b>Inland Sand Dunes Habitat</b><br>Vegetation unit ID1 comprises <i>Grevillea stenobotrya</i> tall open shrubland over <i>Crotalaria cunninghamii</i> , <i>Trichodesma zeylanicum var. grandiflorum</i> open shrubland over <i>Triodia epactia</i> open hummock grassland.   |



Vegetation unit ID2 comprises *Grevillea stenobotrya* tall open shrubland over *Crotalaria cunninghamii*, *Hibiscus brachychlaenus* open shrubland over *Triodia schinzii* open hummock grassland.

Vegetation unit ID3 comprises *Acacia stellaticeps* shrubland over *Triodia epactia* hummock grassland.

#### **Coastal Sand Plains Habitat**

Vegetation unit CS1 comprises *Acacia tetragonophylla* scattered shrubs over *Triodia epactia* hummock grassland in mosaic with *Sporobolus mitchellii*, *E. benthamii* and *Eulalia aurea* tussock grassland.

Vegetation unit CS2 comprises *Acacia tetragonophylla* scattered shrubs over *Triodia epactia* hummock grassland.

Vegetation unit CS3 comprises *Acacia tetragonophylla* scattered shrubs over *Scaevola pulchella*, *Indigofera monophylla* low open shrubland over *Triodia epactia* hummock grassland.

Vegetation unit CS4 comprises *Acacia tetragonophylla*, *A. synchronicia* scattered tall shrubs over *Triodia epactia* very open hummock grassland.

#### **Clay Pans Habitat**

Vegetation unit C1 comprises bare claypans.

Vegetation unit C3 comprises *Tecticomia spp.* low shrubland.

Vegetation unit C4 comprises *Prosopis pallida* (exotic), *Atriplex bunburyana* open shrubland over *Triodia epactia* open hummock grassland and *Cenchrus ciliaris* (exotic) open tussock grassland.

#### **Clayey Plains**

Vegetation unit CP1 comprises *Sporobolus mitchellii*, *E. benthamii* and *Eulalia aurea* tussock grassland.

Vegetation unit CP6 comprises *Lawrenzia viridigrisea* low open shrubland over *Triodia epactia* open hummock grassland over open tussock grassland.

### **3. Assessment of application against clearing principles**

#### **Comments**

The applicant has applied to amend Clearing Permit CPS 6541/1 to remove the clearing area associated with Lot 555 on Deposited Plan 74894, Talandji. The clearing is still for 389 hectares for the purpose of undertaking the Onslow Utilities Infrastructure Upgrade Project. The removal of Lot 555 on Deposited Plan 74894 has subsequently allowed Regional Power Corporation TA Horizon Power to apply for clearing permit CPS 7253/1, as it will be undertaking the works for the power station associated with the Onslow Utilities Infrastructure Upgrade Project at this location.

Lot numbers were reviewed and updated to reflect current cadastral boundaries.

A review of the available information identified that the assessment against the clearing principles has not changed since the assessment of the original application CPS 6541/1, and can be found in Decision Report CPS 6541/1.

## Planning instruments and other relevant matters.

**Comments** The application was advertised in *The West Australian* newspaper on 10 October 2016 by the Department of Environment Regulation inviting submissions from the public within a 7 day period. No submissions were received in relation to this application.

The assessment against Planning and Other Matters has not changed since the assessment of the original application CPS 6541/1, and can be found in Decision Report CPS 6541/1.

## 4. References

- Biota Environmental Services (2013) Desktop Review of the Proposed Onslow Micro-Siting Survey Area. Additional Information for Clearing Permit Application CPS 6541/1. DER Ref A925328.
- Keighery, B.J. (1994) Bushland Plant Survey: A Guide to Plant Community Survey for the Community. Wildflower Society of WA (Inc). Nedlands, Western Australia.
- Shepherd, D.P., Beeston, G.R. and Hopkins, A.J.M. (2001) Native Vegetation in Western Australia, Extent, Type and Status. Resource Management Technical Report 249. Department of Agriculture, Western Australia.