



## **BUSHLAND ASSESSMENT**

**NORTH COAST ROAD**

**JOHNCOCK ROAD TO  
PLAYFORD HIGHWAY**

**28 JANUARY 2018**

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This report was researched and prepared by



**Botanical  
Enigmerase**

Email: [enigmerase@bigpond.com.au](mailto:enigmerase@bigpond.com.au)

in accordance with the agreement between, on behalf of and for the exclusive use of

Kangaroo Island Council  
PO Box 121  
Kangaroo Island SA 5223

Michelle Haby is the only Native Vegetation Council accredited consultant on Kangaroo Island, accredited to prepare reports for clearance consent under Section 28 of the *Native Vegetation Act 1991* and applications made under one of the *Native Vegetation Regulations 2017*.

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## Application Details

<b>Applicant</b>	Kangaroo Island Council
<b>Representative</b>	Yarran Iversen Asset Services Technical Officer
<b>Address</b>	PO Box 121 Kingscote SA 5223
<b>Telephone</b>	08 8553 4500
<b>Email</b>	<a href="mailto:yarran.iversen@kicouncil.sa.gov.au">yarran.iversen@kicouncil.sa.gov.au</a>

## Inspection

<b>Accredited Consultant</b>	Michelle Haby
<b>Inspection Date</b>	Bushland Assessments on 1, 8, 13 and 20 September 2017.

## Clearance Proposal

<b>Location</b>	North Coast Road from Johncock Road to Playford Highway
<b>Road Length</b>	11.30 km
<b>Purpose</b>	Upgrade the roadway to a width of 8.5m
<b>Clearance Proposal</b>	0.2545 ha to widen the roadway to 8.5m
<b>Proposed SEB</b>	Draw down on the SEB Credit on SEB 2006_2028 being Section 41 Hundred of Gosse



## 1.0 Introduction

Botanical Enigmerase was approached by Kangaroo Island Council to undertake a Native Vegetation Assessment of “North Coast Road” to enable road works to proceed, being to widen the roadway to 8.5m. Kangaroo Island Council will manage the verge as living under the Roadside Vegetation Management Plan to a total width, including the roadway, of 12m.

The Native Vegetation Assessment is to be used as part of a Native Vegetation Clearance Application to be provided to the Native Vegetation Council and to assist in an Assessment of Significant Impact for the Commonwealth Government, if required.

Specifically Kangaroo Island Council contracted Botanical Enigmerase to undertake the following along North Coast Road, from Stokes Bay Road to Playford Highway, Figure 1-

- Walk both sides of the carriageway assessing the vegetation within 5m of the edge of the existing carriageway on both sides;
- Divide the road reserve into sites based on condition and/or community of the native vegetation;
- Within each site document all plant species;
- Locate any Nationally Threatened, State Listed or Regionally Significant species or communities;
- Locate any Declared Plant Species under the *Natural Resources Management Act 2004*;
- Estimate the amount of native vegetation clearance required to widen the roadway to 8.5m; and
- Prepare a Native Vegetation Clearance Assessment in accordance with Regulation 12(34) Infrastructure under the *Native Vegetation Regulations 2017* inclusive of SEB requirements.





**Figure 1- Native Vegetation Assessment Location**

The Native Vegetation Assessment has been divided into 3 blocks to assist in data analysis being-

- Block 1- Stokes Bay Road to Pratts Road
- Block 2- Pratts Road to Johncock Road
- Block 3- Johncock Road to Playford Highway

Each Block is divided into Sites based primarily on the native vegetation condition and communities. Within each site the following information has been collected-

- All plant species recorded
- Locality of each Nationally Threatened, State Listed or Regionally Significant species or communities;
- Locality of each Declared Plant Species under the *Natural Resources Management Act 2004*
- Width of the existing cleared envelope, being distance between the native vegetation on each side of the existing roadway.

The Native Vegetation Assessment was undertaken using the standard Native Vegetation Council Bushland Assessment procedure. The data collected from each Block and Site was then entered onto the Native Vegetation Council “Small Site Bushland Assessment Scoresheet” to determine Biodiversity Score and Significant Environmental Benefit (SEB) requirements.

This report outlines the Bushland Assessment for Block 3- Johncock Road to Playford Highway.



## 2.0 Block 3- Bushland Assessment

Block 3 consists of the section of North Coast Road from Johncock Road to Playford Highway, Figure 2. The Bushland Assessments of Block 3 occurred on 1, 8, 13 and 20 September 2017. Both sides of the road were walked recording the native vegetation 5m beyond the existing cleared road envelope.

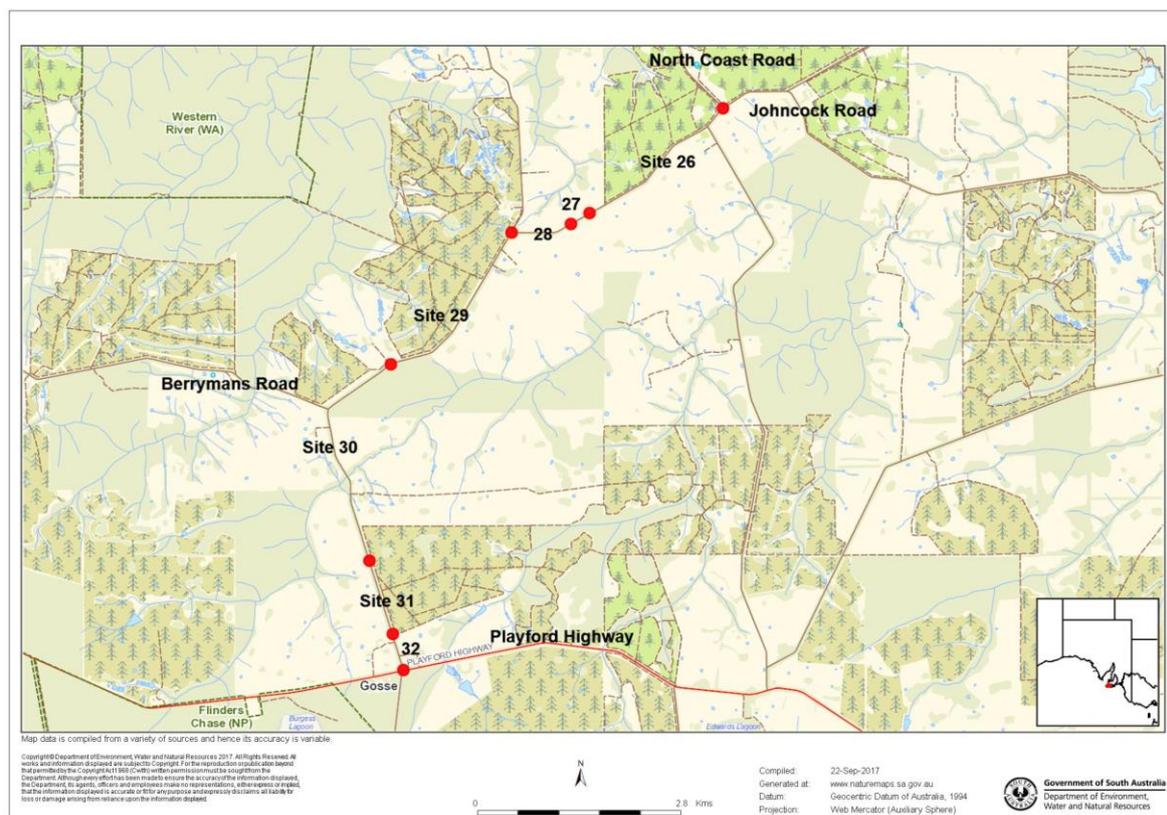


Figure 2- Block 3

The change in each native vegetation community or condition was recorded as a GPS reference, Table 1. Block 3, as a result, was divided into 7 sites consisting of 2 different native vegetation communities.

Bushland Assessment Date 1, 8, 13 and 20 September 2017					
Site	Site End Point		Community	BCM	Substantially Intact Vegetation
	Latitude	Longitude			
25	35°43'22" S	137°01'50" E			
26	35°44'09" S	137°00'37" E	KI 0301	1.1	No
27	35°44'14" S	137°00'25" E	KI 2502	7.4	No
28	35°44'18" S	136°59'54" E	KI 0301	1.1	No
29	35°45'17" S	136°58'47" E	KI 0301	1.1	Yes
30	35°46'46" S	136°58'36" E	KI 0301	1.1	Yes
31	35°47'19" S	136°58'48" E	KI 0301	1.1	No
32	35°47'35" S	136°58'54" E	KI 2502	7.3	No

Table 1- Block 3- Site Description



Table 2 provides a summary of the outcomes of the Bushland Assessments. The detailed results of the Bushland Assessment are contained within Appendix 2.

Bushland Assessment Date	1, 8, 13 and 20 September 2017						
	Site 26	Site 27	Site 28	Site 29	Site 30	Site 31	Site 32
Landscape Context Score	1.12	1.12	1.12	1.12	1.12	1.12	1.12
Vegetation Condition Score	61.6	51.3	55.1	64.49	65.45	68.25	53.20
Conservation Significance Score	1.18	1.14	1.14	1.18	1.18	1.16	1.14
Unit Biodiversity Score	81.41	65.50	70.35	85.23	86.50	88.67	67.93
Total Biodiversity Score	9.69	0.95	2.99	0.00	0.00	4.88	1.60

**Table 2- Block 3- Summary of Bushland Assessment**

The Total Biodiversity Score for Block 3 is equal to the sum of the Total Biodiversity Score for each site being- **20.11**

The detailed Native Vegetation Assessment, following, has been undertaken using the Native Vegetation Council Clearance Principles as a basis for determining significance.

## 2.1 Plant Species Diversity- Principle a

The Bushland Assessment Spreadsheets include a full list of the flora species recorded in each site within Block 3 with Table 3 providing a summary.

Bushland Assessment Date	1, 8, 13 and 20 September 2017			
Site	Native Species	Significant Species	Weed Species	Native Plant Diversity Score
26	82	8	10	30
27	40	3	6	30
28	49	3	8	30
29	93	9	11	30
30	93	12	11	30
31	80	8	5	30
32	56	4	6	30
<b>TOTAL</b>	<b>130</b>	<b>20</b>	<b>19</b>	

**Table 3- Block 3- Plant Species Diversity**

No Declared Plant Species under the *Natural Resources Management Act 2004* were observed within Block 3.

**The proposed clearance is SERIOUSLY AT VARIANCE to the Plant Species Diversity Principle.**

## 2.2 Wildlife Habitat- Principle b

The Bushland Assessment Spreadsheets include a list of fauna species for each Site within Block 3 consisting of-

- All fauna species observed during the Bushland Assessment;
- All fauna species from *Native Vegetation Council Threatened Fauna Habitat Spreadsheet* for the Parndana IBRA (irrespective of BCM); and



- Rated fauna species recorded within 5km of Block 3, from Naturemaps.

The vegetation within Block 3 provides potential habitat for the following fauna species of conservation significance, Table 4.

Common Name	Conservation Status		
	AU	SA	KI
<i>Birds</i>			
Musk Duck		R	RA
Bush Stonecurlew		R	
Shy Heathwren		R	RA
Yellow-tailed Black Cockatoo		V	RA
Peregrine Falcon		R	VU
Lewin's Rail		V	VU
Purple-gaped Honeyeater		R	
Restless Flycatcher		R	VU
Elegant Parrot		R	RA
Spotless Crake		R	VU
Western Whipbird		R	RA
Beautiful Firetail		R	
Southern Emu-wren (KI ssp)		R	RA
Painted Buttonquail		R	EN
Bassian Thrush		R	VU
Little Wattlebird			RA
<i>Mammals</i>			
Common Brushtail Possum		R	
Southern Brown Bandicoot	EN	V	
Short-beaked Echidna	EN		
Swamp Rat		R	VU
Kangaroo Island Dunnart	EN	E	CR
<i>Reptiles and Amphibians</i>			
Brown Toadlet		R	
Heath Goanna		V	
Southern Grass Skink			R

**Table 4- Block 3 Fauna Species of Conservation Significance**

The potential of fauna species of conservation significance to occur in Block 3 has contributed to a high Threatened Fauna Score and Unit Biodiversity Scores, Table 5.

	Site 26	Site 27	Site 28	Site 29	Site 30	Site 31	Site 32
<b>Threatened Fauna Score</b>	0.1	0.1	0.1	0.1	0.1	0.1	0.1
<b>Unit Biodiversity Score</b>	81.41	65.50	70.35	85.23	86.50	88.67	67.93

**Table 5- Block 3- Wildlife Habitat Score**



The proposed clearance is **SERIOUSLY AT VARIANCE** to the Wildlife Habitat Principle.

## 2.3 Rare Plant Species- Principle c

Table 6 provides the Nationally Threatened, State Listed and Regionally Significant native plant species recorded during the Bushland Assessments.

Bushland Assessment Date	1, 8, 13 and 20 September 2017			
Conservation Status Source	Gillam, S. and Urban, R. (2014)			
Species	Status			Site
	AU	SA	KI	
<i>Calytrix smeatoniana</i>		R		29, 30
<i>Caladenia sanguinea</i>		R		26
<i>Centrolepis glabra</i>		R		31
<i>Eucalyptus fasciculosa</i>		R		26, 29
<i>Gleichenia microphylla</i>		R	VU	30
<i>Hibbertia glebosa ssp oblonga</i>		R		26, 30
<i>Hibbertia platyphylla ssp halmaturina</i>			VU	26
<i>Lepidosperma longitudinal</i>			RA	32
<i>Lepidosperma semiteres</i>			RA	26, 27, 28, 29, 30, 31
<i>Leptospermum lanigerum</i>			RA	30
<i>Lepyrodia valliculae</i>		R		26, 27, 28, 29, 30, 31, 32
<i>Marianthus bignoniaceus</i>			RA	30, 31
<i>Pterostylis melagramma</i>		E	VU	30, 31
<i>Pultenaea laxiflora</i>			RA	31
<i>Rhytidisporum procumbens</i>		R	VU	29, 30, 31, 32
<i>Spyridium spathulatum</i>		R		29
<i>Thelymitra flexuosa</i>		R		29, 30
<i>Thelymitra ixoides</i>		E	#	26, 29
<i>Xanthorrhoea semiplana ssp tateana</i>		R		26, 27, 28, 29, 30, 31, 32
<i>Xanthosia tasmanica</i>		R		30

# New species for Kangaroo Island

**Table 6- Block 3- Significant Flora Species Observed**

Sites 26, 29, 30 and 31 have a Threatened Flora Score “seriously at variance” to the clearance principle, Table 7.

	Site 26	Site 27	Site 28	Site 29	Site 30	Site 31	Site 32
<b>Threatened Flora Score</b>	0.08	0.04	0.04	0.08	0.08	0.06	0.04

**Table 7- Block 3- Threatened Flora Score**

The proposed clearance is **SERIOUSLY AT VARIANCE** to the Rare Plant Species Principle.



## 2.4 Rare Plant Communities- Principle d

Vegetation Communities along the assessment route were determined based on the Kangaroo Island Floristic Vegetation Mapping, prepared by DEWNR. A total of 2 different vegetation communities were recorded, Table 8.

<b>Bushland Assessment Date</b>		1, 8, 13 and 20 September 2017				
<b>Other Data</b>		Kangaroo Island Floristic Vegetation Mapping NatureMaps				
<b>Status Source</b>		<i>Willoughby, N, Oppermann, A., Innes, R.W. (2001) Provisional List Of Threatened Ecosystems Of South Australia (DEH 2009)</i>				
Formation	Original ID	SA VEG ID	New Detailed Floristic Description	Conservation Status		
				A	SA	KI
Woodland	3A	KI 0301	<i>Eucalyptus arenacea/baxteri, Eucalyptus obliqua, Eucalyptus cosmophylla low woodland over Allocasuarina striata, Banksia marginata, Banksia ornata, +/- Hakea rostrata, +/-Allocasuarina muelleriana ssp. notocolpica shrubs</i>			
Shrubland	25B	KI 2502	<i>Leptospermum continentale, Acacia sp. Swamp (N.M.Smith 3022), Eucalyptus cosmophylla mid shrubland over Hakea mitchellii, Banksia marginata, Leptospermum myrsinoides, Banksia ornata, Allocasuarina striata over Darwinia micropetala shrubs</i>			

**Table 8- Block 3- Vegetation Communities**

Sites 26, 28, 29, 30 and 31 being vegetation community KI0301 have the potential for Nationally Threatened Plants to occur, Appendix 1.

**The proposed clearance is AT VARIANCE to the Rare Plant Communities Principle.**

## 2.5 Remnancy- Principle e

The property is located within the Parndana Environmental Association which is estimated to retain 48% of its original native vegetation with 73% of the native vegetation protected.

The area of proposed clearance has a Total Biodiversity Score of **20.11**.

**The proposed clearance is NOT AT VARIANCE to the Remnancy Principle.**

## 2.6 Wetland- Principle f

The definition of a wetland, for the purpose of this principle is-

- land permanently or temporarily underwater or waterlogged that must have surface water or waterlogging of sufficient frequency and/or duration to effect the biota; and/or



- if the area is defined on 1:50,000 series topographic map as either a perennial or intermittent lake or land subject to inundation.

The wetland principle has no consideration for this project.

## 2.7 Amenity- Principle g

Table 9 assesses the amenity value of the proposed clearance area.

Location of the trees <ul style="list-style-type: none"> <li>• e.g. near a township, adjacent to a main road or tourist route</li> </ul>	No
Cultural or historical values and local community views	No
Number and distribution of trees to be cleared <ul style="list-style-type: none"> <li>• how many trees will be retained?</li> <li>• would removal of the trees change the landscape character?</li> </ul>	Nil No
Species and size of trees <ul style="list-style-type: none"> <li>• large trees generally have more impressive landscape quality</li> <li>• red gums, because of their size, are often considered of high landscape value</li> </ul>	No value
Condition and shape <ul style="list-style-type: none"> <li>• trees suffering extensively from dieback are not generally aesthetically pleasing</li> <li>• well-shaped trees may be considered of greater landscape quality.</li> </ul>	No value

**Table 9- Block 3- Amenity Value**

The proposed clearance is NOT AT VARIANCE to the Amenity Principle.



## 3.0 Addressing the Legislation

### 3.1 Section 28 of the Native Vegetation Act 1991

For the proposed clearance to be considered under Section 28 of the *Native Vegetation Act 1991* consideration of the presence of substantially intact vegetation and the Principles of Clearance is required.

#### SUBSTANTIALLY INTACT VEGETATION

For the clearance area to be considered to have Substantially Intact Vegetation, consideration of the following matters is concerned-

Does the native vegetation constitute continuous stratum? Each criteria must be satisfied-

1. The plants within the stratum of interest are growing at original (pre-European) density for that community; **and**
2. Contains a diversity of species similar to original (pre-European) vegetation of that community; **and**
3. Is part of a contiguous area of vegetation consisting of the stratum, including on adjacent properties, that is at least one hectare in area and for linear patches, generally greater than 30m in width. Small, isolated or linear patches of vegetation are subject to significant edge affect and likely to degrade over time; **and**
4. Does not contain introduced perennial species occupying greater than 20% cover within that stratum; **and**
5. The native vegetation has NOT been subject to severe degradation, such as-
  - a. Any degradation must have been undertaken in compliance with the *Native Vegetation Act 1991*
  - b. Must have occurred within the past 20 years from the date of application
  - c. Must be a direct result of human activity
  - d. May include the following:
    - i. Fragmentation of the area of vegetation
    - ii. Modifying, destroying or removing vegetation cover or plant species diversity
    - iii. Changing abiotic (non-living) factors such as water, nutrients or soil which subsequently impacts on native vegetation. This may include, but not limited to altered hydrology, compaction of soil or increased soil nutrient levels.
  - e. Does not include degradation as a result of fire.

Table 10 assess each site against the Substantially Intact Vegetation criteria, above. Sites 29 and 30 can be considered Substantially Intact. Sites 26, 27 and 31 would be considered intact if there was native vegetation on neighbouring properties joining these sites.

Criteria	Site 26	Site 27	Site 28	Site 29	Site 30	Site 31	Site 32
1	✓	✓	✓	✓	✓	✓	✓
2	✓	✓	✓	✓	✓	✓	✓
3				✓	✓		
4	✓	✓		✓	✓	✓	
5	✓	✓	✓	✓	✓	✓	✓
<b>Intact Stratum</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>Yes</b>	<b>Yes</b>	<b>No</b>	<b>No</b>

Table 10- Block 3- Substantially Intact Vegetation Assessment



Two sites, 29 and 30 within Block 2 are considered to have Substantially Intact Vegetation however no clearance is required to widen the carriageway to 8.5m.

**Overall the native vegetation within the clearance zone of North Coast Road between Johncock Road and Playford Highway is not considered to have Substantially Intact Vegetation.**

## PRINCIPLES OF CLEARANCE

The following Principles of Clearance are addressed within this report.

Principle		Assessment Outcome
a	Plant species diversity	Seriously at Variance
b	Wildlife habitat	Seriously at Variance
c	Rare plant species	Seriously at Variance
d	Rare plant communities	At Variance
e	Remnancy	Not at Variance
f	Wetland	Not at Variance
g	Amenity	Not at Variance

Table 11- Block 3- Clearance Principles

**The proposal to widen North Coast Road between Johncock Road and Playford Highway is therefore SERIOUSLY AT VARIANCE to the Clearance Principles.**

## 3.2 Division 5 of the Native Vegetation Regulations 2017

### REGULATION 12(34) INFRASTRUCTURE

The proposed clearance of Block 3 could be considered under Regulation 12(34) Infrastructure. Following is a summary of the vegetation assessment regarding Regulation 12(34).

Clearance incidental to the construction or expansion of a building or infrastructure where it is deemed the clearance is in the public interest; <b>and</b>	Clearance is required to widen the roadway to 8.5m. Clearance will occur in areas where least impact on native vegetation occurs as outlined in this report.
Clearance is required in connection with the provision of infrastructure or services to a building or place provided that consent under the Development Act 1993 has been obtained; <b>and/or</b>	North Coast Road is a major road on Kangaroo Island and has been identified for funding through the South Australian Government.
Clearance is undertaken in accordance with an NVC- approved Standard Operating Procedure	As required and described within this report. The living verge will be maintained out to a total width, including the roadway, of 12m in accordance with the Roadside Vegetation Management Plan

Table 12- Block 3- Assessment of Regulation 12(34)



## RISK ASSESSMENT

The level of risk the proposed clearance presents to biological conservation is as follows, Table 13.

Clearance Area	0.2545 ha
Total Biodiversity Score	20.11
Seriously at variance to Clearance Principle	Principles a, b and c
Risk Level	Level 3

**Table 13- Block 3- Risk Assessment**

## AREA OF IMPACT

It is understood that Kangaroo Island Council is proposing to widen the roadway to 8.5m. A living verge out to a total of width, including the roadway, of 12m will be maintained in accordance with the Roadside Vegetation Management Plan.

Kangaroo Island Council have requested the clearance be calculated on the proposed 8.5m roadway. The amount of clearance is therefore determined by subtracting the width of the existing cleared envelop, being distance between the native vegetation on each side of the existing road carriageway, from 8.5m and multiplying by the length of each site, Table 14.

Site	Length (km)	Existing Envelop (m)	Clearance (ha)	Comment
26	2.38	8	0.1190	
27	0.29	8	0.0145	
28	0.85	8	0.0425	
29	2.95	9	0.0000	No clearance required
30	3.26	9	0.0000	No clearance required
31	1.10	8	0.0550	
32	0.47	8	0.0235	
<b>BLOCK 3</b>	<b>11.30</b>		<b>0.2545</b>	

**Table 14- Block 3- Area of Impact**

Block 3 is proposed to have a total clearance area of 0.2545 hectares to widen the roadway to 8.5m.

## MITIGATION HIERARCHY

The following information is provided in relation to the Mitigation Hierarchy

Mitigation Hierarchy	Avoidance	Clearance will be modified to areas of already cleared road reserve adjoining the current road carriageway as described in this report
	Minimisation	The roadway is to be widened to 8.5m. The verge will be maintained as living under the Roadside Vegetation Management Plan out to a total width, including the roadway, of 12m
	Rehabilitation	Not possible as road way
	Offset	Table 16

**Table 15- Block 3- Mitigation Hierarchy**



### 3.3 Significant Environmental Benefit

The SEB requirement, Table 16, was then determined by the Native Vegetation Council "Small Site Bushland Assessment Scoresheet".

	SEB Points of Loss	SEB Points Required	Hectares Required	Payment to Fund	Administration Fee
Site 26	9.69	10.17	1.27	\$9,612.78	\$480.64
Site 27	0.95	1.00	0.12	\$946.13	\$47.31
Site 28	2.99	3.14	0.39	\$2,962.85	\$148.14
Site 29	0.00	0.00	0.00	\$0.00	\$0.00
Site 30	0.00	0.00	0.00	\$0.00	\$0.00
Site 31	4.88	5.12	.64	\$5,024.70	\$251.24
Site 32	1.60	1.68	0.21	\$1,640.45	\$82.02
<b>Total</b>	<b>20.11</b>	<b>21.11</b>	<b>2.63</b>	<b>\$20,186.91</b>	<b>1,009.35</b>

**Table 16- Block 3- SEB requirements for widening roadway to 8.5m**

To undertake the works in accordance with the above criteria a total of 0.2545 hectares of native vegetation would need to be cleared to widen the roadway to 8.5m (Table 14) for Block 3. The overall Significant Environmental Benefit (SEB) has been determined to be 2.63 ha.

**The clearance of the native vegetation for the proposed widening of North Coast Road meets the criteria of Regulation 12(34) of the *Native Vegetation Regulations 2017* with a Significant Environmental Benefit.**



## 4.0 EPBC Act

The Environment Protection and Biodiversity Conservation (EPBC) Act 1999 is Commonwealth legislation that protects national environmental matters. Actions that have, or are likely to have, a “significant impact” on a matter of national environmental significance require approval from the Australian Government Minister for the Environment.

Kangaroo Island has 18 listed nationally threatened plant species and 2 listed nationally threatened ecological communities, Appendix 1.

### 4.1 Threatened Ecological Communities

No nationally threatened ecological communities were observed along North Coast Road between Johncock Road and Playford Highway.

### 4.2 Threatened Plant Species

No nationally threatened plant species were observed along North Coast Road between Johncock Road and Playford Highway.



## 5.0 Recommendations

1. The Native Vegetation Clearance for the proposed widening of the roadway to 8.5m of North Coast Road from Johncock Road to Playford Highway be approved under Regulation 12(34) of the *Native Vegetation Regulations 2017* subject to the standard Native Vegetation Council conditions and a Significant Environmental Benefit as follows-

SEB Points of Loss	SEB Points Required	Hectares Required	OR	Payment into the Fund	Administration Fee
20.11	21.11	2.63		\$20,186.91	1,009.35

Table 17- SEB Requirements for widening roadway to 8.5m



## 6.0 North Coast Road Summary

Bushland Assessments were undertaken along North Coast Road, between Stokes Bay Road and Playford Highway, from June to September 2017 to determine the native vegetation clearance requirements to widen the roadway to 8.5m. North Coast Road was divided into three Blocks being-

- Block 1- Stokes Bay Road to Pratts Road
- Block 2- Pratts Road to Johncock Road
- Block 3- Johncock Road to Playford Highway

Table 18 summarises the results of the Bushland Assessment.

	Block 1	Block 2	Block 3	Total
Sites	7	18	7	32
Total Biodiversity Score	54.34	47.80	20.11	122.25
Native Plant Species	109	161	128	222
Significant Plant Species	9	17	20	37
Introduced Plant Species	18	36	19	45
Native Vegetation Communities	4	9	2	12
Substantially Intact Vegetation	Yes	No	No	
Variance to Clearance Principles	At	Seriously	Seriously	
Road Length (km)	7.71	17.01	11.30	36.02
Clearance (ha)	0.804	0.8605	0.2545	1.919
SEB Points Loss	54.34	47.80	20.11	122.25
SEB Points Required	57.08	50.19	21.11	128.38
Hectares Required	7.13	6.28	2.63	16.04
Payment into Fund	\$42,803.01	\$37,894.73	\$20,186.91	\$100,884.65
Administration Fee	\$2,140.14	\$1,889.74	\$1,009.35	\$5,039.23

**Table 18- Summary of Bushland Assessment North Coast Road**

Similar Native Vegetation Assessments have been undertaken along four different Road reserves being Bomb Alley in 2016, Springs Road (from Boxer Road to North Coast Road) in 2015, Eastern Ring Route (from the end of the bitumen on Cape Willoughby Road to the Wilson River Road then along the Wilson River Road to East West Road) in 2013 and North Coast Road (from Stokes Bay Road to Playford Highway) in 2017.

Table 19 compares the results of the four Native Vegetation Assessments.

	Bomb Alley	Springs Road	Eastern Ring Route	North Coast Road
Length	6 km	20 km	24 km	36.02 km
Native Vegetation Communities	10	6	8	12
Native Plant Species	139	138	96	225
Significant Plant Species	27	13	11	38
BDBSA Data Points	301	74	30	342
Introduced Plant Species	38	44	11	45
Proclaimed Plant Species	1	6	2	1

**Table 19- Comparison of Road Reserves**



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## Appendix 1- Nationally Threatened Plants Potential Habitat

Scientific Name	Common Name	Status	Potential Habitat ( <i>Taylor 2003</i> )
<i>Asterolasia phebalioides</i>	Downy Star-bush	Vulnerable	1A
<i>Beyeria subsecta</i>	Kangaroo Island Turpentine Bush	Vulnerable	2P, 11D, 11F
<i>Caladenia ovata</i>	Kangaroo Island Spider-orchid	Vulnerable	5H, 9B, 11D, 19A
<i>Caladenia tensa</i>	Greencomb Spider-orchid	Endangered	Possibly not on KI
<i>Cheiranthra volubilis</i>	Twining Finger Flower	Vulnerable	1A, 1F, 2H, 2K, 3A, 3E, 5A, 5G, 6B, 21A, 28A
<i>Correa calycina</i>	De'Mole Correa	Vulnerable	5D, 5G, 19A
<i>Eucalyptus paludicola</i>	Mount Compass Swamp Gum	Endangered	Only known to occur at Kelly Hill Caves
<i>Euphrasia collina subsp. Osbornii</i>	Osborn's Eyebright	Endangered	11J, 21C, 31C
<i>Leionema equestre</i>	KI Phebalium	Endangered	2P, 5G, 11D, 19A, 22A
<i>Logania insularis</i>		Vulnerable	2H, 2K, 13B
<i>Olearia microdisca</i>	Small-flowered Daisy-bush	Endangered	2M, 11D, 11F, 11G, 18B, 22A
<i>Olearia pannosa subsp. pannosa</i>	Silver Daisy-bush	Vulnerable	Only know to occur on North Cape
<i>Pomaderris halmaturina subsp. Halmaturina</i>	Kangaroo Island Pomaderris	Vulnerable	2D, 5H, 8B, 10B, 10C, 10D, 10E, 11A, 11J, 17B, 19D, 23C
<i>Ptilotus beckerianus</i>	Mulla mulla	Vulnerable	1A, 2A, 2H, 2M, 3A,3B, 5A, 5B, 6B, 8B
<i>Pultenaea insularis</i> (1)	Beyeria Bush-pea	Endangered	11D
<i>Pultenaea villifera var. glabrescens</i>	Yellow Bush-pea, Splendid Bush-pea	Vulnerable	3C, 5D, 5E, 5F, 5G, 13B, 19A, 19B, 31A, 32A
<i>Spyridium eriocephalum var. glabrisepalum</i>	MacGillivray Spyridium	Vulnerable	2M, 11A,11D, 11F
<i>Thelymitra matthewsii</i>	Spiral Sun-orchid	Vulnerable	1A
<i>Veronica derwentiana subsp. Homalodonta</i>	Mount Lofty Speedwell	Critically Endangered	5D

(1) Not formally listed under the *EPBC Act* but in the process of being listed

### Nationally Threatened Plant Communities

Ecological Community	Status
Kangaroo Island Narrow Leaved Mallee ( <i>Eucalyptus cneorifolia</i> ) Woodland	Critically Endangered
Subtropical and Temperate Coastal Saltmarsh	Vulnerable



## Appendix 2- Block 3- Bushland Assessment Scoresheets

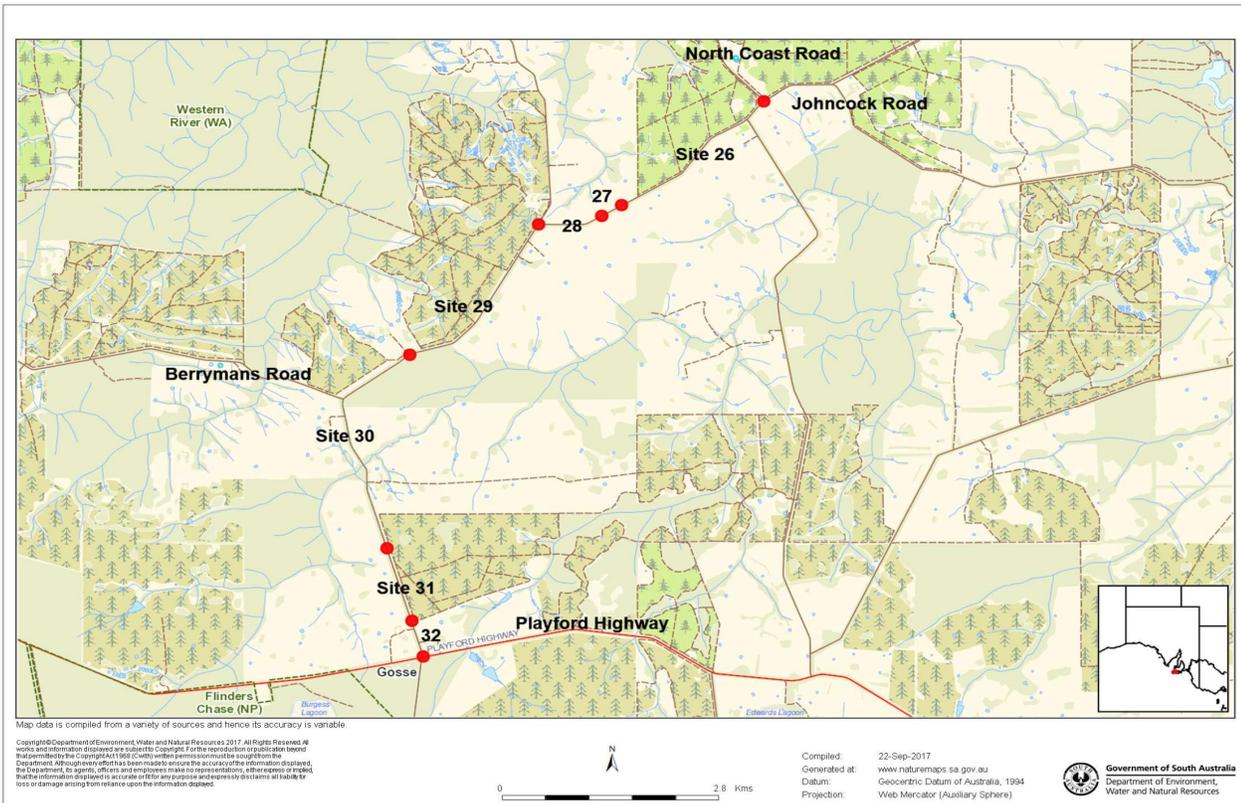


# Bushland Assessment Scoresheet (Small Sites)

<b>Block</b>	Johncock Road to Playford Highway
<b>Size of Block (Ha)</b>	0.2545
<b>NRM Region</b>	Kangaroo Island
<b>IBRA Association</b>	Parndana

<b>ASSESSOR(S)</b>	Michelle Haby
<b>DATE OF ASSESSMENT</b>	1/09/2017

## Map of the Block (Including the Sites)



## Landscape Context Scores

<b>Percent Vegetation Cover (5km radius) (%)</b>	45
0-5% = 0 pts; >5-10% = 0.01 pts; >10-25% = 0.02 pts; >25-50% = 0.03 pts; >50-75% = 0.01 pt; >75-100% = 0 pts	
<b>Score</b>	0.03
<b>Block Shape Cleared perimeter:Area (km/km<sup>2</sup>)</b>	
<b>Cleared Perimeter (m) =</b>	10000
<b>Cleared Perimeter to area ratio</b>	3929.27
<6 = 0.03 pts; 6 to <12 = 0.02 pts; 12 to <18 = 0.01 pt	
<b>Score</b>	0
<b>Size of remnant patch (incl. native veg on adjacent properties) (Hectares)</b>	510
Patch size less than 2 ha = 0 pts; Patch size 2-5 ha = 0.01 pt; Patch size 5-10 ha = 0.02 pts; Patch size 10-20 ha = 0.03 pts; Patch size 20-100 ha = 0.04 pts; Patch size >100 ha = 0.05 pts;	
<b>Score</b>	0.05

<b>Distance to remnant area of more than 50 hectares (km) enter 0km for contiguous</b>	0.00
>3km = 0 pts; 1-3km = 0.01 pt; <1km = 0.02 pts; contiguous = 0.03 pts	
<b>Score</b>	0.03
<b>% native veg. remaining in IBRA Assoc.</b>	48
0-2% = 0.05 pts; >2-5% = 0.04 pts; >5-10% = 0.03 pts; >10-20% = 0.02 pts; >20-50% = 0.01 pt; >50% = 0 pts	
<b>Score</b>	0.01
<b>% native veg. protected IBRA Assoc.</b>	73
0-5% = 0.03 pts; >5-10% = 0.02 pts; >10-25% = 0.01 pt; >25% = 0	
<b>Score</b>	0
<b>Wetland or Riparian Habitat present</b>	
Riparian zone present (Yes/No) = 0.02 pt	
Swamp/wetland present (Yes/No) = 0.03 pts	
(Swamp/wetland may be +/- riparian zone)	
<b>Score</b>	0

Note: Blocks will score a minimum Landscape Context Score of 1

<b>LANDSCAPE CONTEXT SCORE (max 1.25)</b>	<b>1.12</b>
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## Vegetation Condition Scores

<b>SITE:</b>	Site 27
<b>VEGETATION ASSOCIATION DESCRIPTION</b>	KI 2502 (BCM 7.4)
<b>SIZE OF SITE (Ha)</b>	0.0145

**Native Plant species diversity**  
Score the diversity of species present in the site as a proportion to what would be expected in a vegetation of that community in very good condition (approaching a pre-European state)

<5% (3 Points)	<input type="checkbox"/>
5-10% (6 Points)	<input type="checkbox"/>
11 - 20% (9 Points)	<input type="checkbox"/>
21 - 30% (12 Points)	<input type="checkbox"/>
31 - 40 % (15 Points)	<input type="checkbox"/>
41 - 50% (18 Points)	<input type="checkbox"/>
51 - 60% (21 Points)	<input type="checkbox"/>
61 - 70% (24 Points)	<input type="checkbox"/>
71 - 80% (27 Points)	<input type="checkbox"/>
>80% (30 Points)	<input checked="" type="checkbox"/>

**Native Plant species diversity score (max score of 30)** **30**

**Weed Scores**

Does the site contain plant species declared under the <i>NRM Act 2004</i> (1.5 points)	<input type="checkbox"/>
Cover rating for all declared weeds (max of 6)	
Does the site contain environmental weeds (introduced plants with the capacity to invade and exclude native species from bushland. This typically includes species with a BCM weed threat rating of 3, 4 or 5). (1 Point)	<input checked="" type="checkbox"/>
Cover rating for all environmental weeds (max of 6)	2
<b>Weed Score (max score of 15)</b>	13

*Is the community naturally treeless?*

<b>Tree Health Score (max 5)</b>	5
<b>Fallen timber/debris (max 5)</b>	1
<b>Hollow-bearing trees Score (max 5)</b>	0

<b>Native:exotic Understorey biomass score (max 3)</b>	3
<b>Bare Ground Score (max 5)</b>	3

**Regeneration**

No regeneration present (0 Points)	<input type="checkbox"/>
Very low regeneration, consisting of highly scattered juvenile plants of a limited number of species (3 points)	<input checked="" type="checkbox"/>
Regeneration present, consisting of multiple individual juvenile plants but a limited number of species (6 points)	<input type="checkbox"/>
Multiple species regenerating, but low numbers of juvenile plants (9 points)	<input type="checkbox"/>
Multiple species regenerating with multiple individual juveniles present with varying age classes (12 points)	<input type="checkbox"/>
<b>Regeneration Score (Max 12)</b>	3

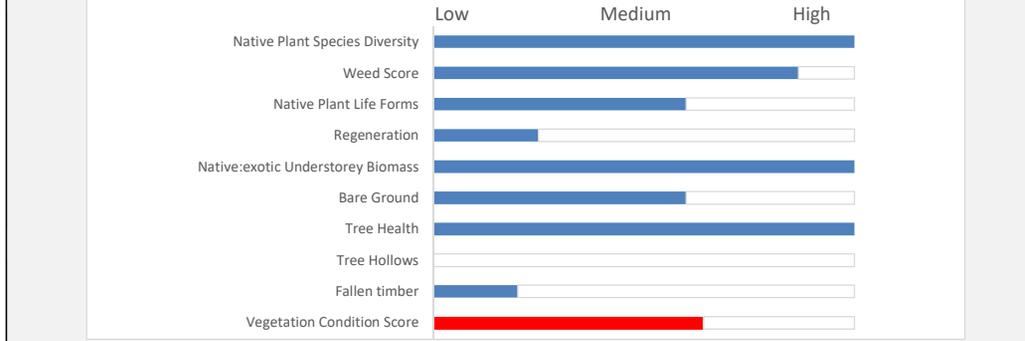
**Native Plant life form**

All strata of vegetation heavily impacted and native vegetation represented by only scattered plants (4 points)	<input type="checkbox"/>
All strata of vegetation impacted with limited structural diversity, largely uniform age classes and reduced vegetation cover (8 points)	<input type="checkbox"/>
At least one strata of vegetation has been impacted, with reduced structural diversity, elements may be missing (such as plant species that provide specific structural features e.g. sedges or mid layer shrubs) and reduce vegetation cover (12 points)	<input checked="" type="checkbox"/>
Limited impacts on native vegetation, with a diversity of structural features and a varied age class, with only a minor loss in structurally diversity, vegetation cover or structural elements (16 points)	<input type="checkbox"/>
All strata of vegetation present, little or no sign of disturbance. A variety of life forms and associated age classes present. Vegetation cover near complete (20 points)	<input type="checkbox"/>

**Native Plant life form score (max 20)** **12**

**Vegetation Condition Score calculation**

<b>Positive Vegetation Attributes Score</b> = Native species diversity + Regeneration + Native Plant Life Forms + Native:exotic understorey biomass + Tree health + Fallen timber/debris + Hollow-bearing trees <i>If the community is naturally treeless this score is multiplied by 1.23</i>	54.00
<b>Negative Vegetation Attributes Score</b> = Weeds + Bare ground	16.00
<b>VEGETATION CONDITION SCORE</b> (Positive veg attributes x ((Negative vegetation attributes + 60) / 80))	51.30



## Conservation Significance Score

<b>Is the vegetation association considered a Threatened Ecological community or Ecosystem?</b>	<b>Yes/No</b>
State (Provisional List of Threatened Ecosystems of SA) <b>Rare</b> community (0.05 pt)	<input type="checkbox"/>
State (Provisional List of Threatened Ecosystems of SA) <b>Vulnerable</b> community (0.1 pts)	<input type="checkbox"/>
State (Provisional List of Threatened Ecosystems of SA) <b>Endangered</b> community (0.15 pts)	<input type="checkbox"/>
Nationally (EPBC Act) <b>Vulnerable</b> community (0.2 pts)	<input type="checkbox"/>
Contains a Nationally (EPBC Act) <b>Endangered</b> or <b>Critically Endangered</b> community (0.3 pts)	<input type="checkbox"/>
<b>Note: all sites will score a minimum Conservation Significance Score of 1</b>	
<b>Score</b>	<b>1</b>

**Number of Threatened Plant Species recorded for the site (within the site)**

*\*If a species has both a State (NP&W Act) and National (EPBC Act) rating, it's only recorded for its National rating.*

State <b>Rare</b> species recorded (1 pt each)	2
State <b>Vulnerable</b> species recorded (2.5 pt each)	0
State <b>Endangered</b> recorded (5 pts each)	0
Nationally <b>Vulnerable</b> species recorded (10 pts each)	0
Nationally <b>Endangered</b> or <b>Critically endangered</b> species recorded (20 pts each)	0
0 = 0 pts; <2 = 0.02 pts; 2 - <5 = 0.04 pts; 5 - <10 = 0.06 pts; 10 - <20 = 0.08pts; 20 or <= 0.1 pts	2
<b>Score</b>	<b>0.04</b>

**Potential habitat for Threatened Animal Species (number observed or previously recorded)**

*\*If a species has both a State (NP&W Act) and National (EPBC Act) rating, it's only recorded for its National rating.*

State <b>Rare</b> species observed or locally recorded (1 pt each)	15
State <b>Vulnerable</b> species observed or locally recorded (2.5 pt each)	3
State <b>Endangered</b> species observed or locally recorded (5 pt each)	0
Nationally <b>Vulnerable</b> species observed or locally recorded (10 pts each)	0
Nationally <b>Endangered</b> or <b>Critically endangered</b> species observed or locally recorded (20 pts each)	3
0 = 0 pts; <2 = 0.02 pts; 2 - <5 = 0.04 pts; 5 - <10 = 0.06 pts; 10 - <20 = 0.08pts; 20 or <= 0.1 pts	82.5
<b>Score</b>	<b>0.1</b>

**CONSERVATION SIGNIFICANCE SCORE** **1.14**

**Total Scores for the Site**

<b>LANDSCAPE CONTEXT SCORE</b>	<b>Score</b>	<b>1.12</b>
<b>VEGETATION CONDITION SCORE</b>	<b>51.30</b>	
<b>CONSERVATION SIGNIFICANCE SCORE</b>	<b>1.14</b>	

Vegetation Condition x Landscape Context x Conservation Significance = **UNIT BIODIVERSITY SCORE** **65.50**

**Total Biodiversity Score** (Biodiversity Score x hectares) **0.95**

<b>Photo Point and Vegetation Survey Location</b>	<b>Direction of the Photo</b>
	222
	<b>GPS Reference</b> (Eastings and Northings)
	Zone:
	35 44' 11"
	137 0' 31"
	<b>Description</b>

**Assessment for Clearance**

Loss Factor	1.0
Loadings for clearance of protected areas	
Reductions for rehabilitation of impact site	
<b>SEB Points of loss</b>	<b>0.95</b>

<b>SEB Points required</b>	1.00
<b>Hectares required</b>	0.12
<b>Mean Annual rainfall for the site (mm)</b>	759
<b>Payment into the fund</b>	<b>\$946.13</b>
<b>Administration fee</b>	<b>\$47.31</b>

# Vegetation Condition Scores

<b>SITE:</b>	Site 28
<b>VEGETATION ASSOCIATION DESCRIPTION</b>	KI 0301 (BCM 1.1)
<b>SIZE OF SITE (Ha)</b>	0.0425

**Native Plant species diversity**  
Score the diversity of species present in the site as a proportion to what would be expected in a vegetation of that community in very good condition (approaching a pre-European state)

<5% (3 Points)	<input type="checkbox"/>
5-10% (6 Points)	<input type="checkbox"/>
11 - 20% (9 Points)	<input type="checkbox"/>
21 - 30% (12 Points)	<input type="checkbox"/>
31 - 40 % (15 Points)	<input type="checkbox"/>
41 - 50% (18 Points)	<input type="checkbox"/>
51 - 60% (21 Points)	<input type="checkbox"/>
61 - 70% (24 Points)	<input type="checkbox"/>
71 - 80% (27 Points)	<input type="checkbox"/>
>80% (30 Points)	<input checked="" type="checkbox"/>

**Native Plant species diversity score (max score of 30)** **30**

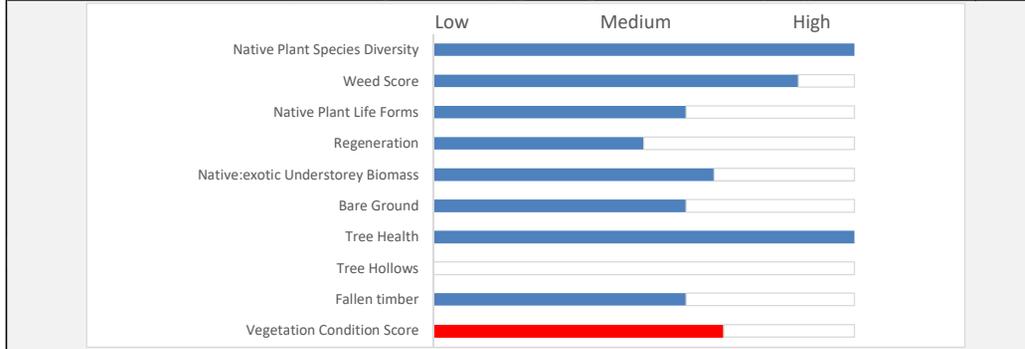
**Weed Scores**

Does the site contain plant species declared under the <i>NRM Act 2004</i> (1.5 points)	<input type="checkbox"/>
Cover rating for all declared weeds (max of 6)	
Does the site contain environmental weeds (introduced plants with the capacity to invade and exclude native species from bushland. This typically includes species with a BCM weed threat rating of 3, 4 or 5). (1 Point)	<input checked="" type="checkbox"/>
Cover rating for all environmental weeds (max of 6)	2
<b>Weed Score (max score of 15)</b>	<b>13</b>

<i>Is the community naturally treeless?</i>	<input type="checkbox"/>
<b>Tree Health Score (max 5)</b>	<b>5</b>
<b>Fallen timber/debris (max 5)</b>	<b>3</b>
<b>Hollow-bearing trees Score (max 5)</b>	<b>0</b>
<b>Native:exotic Understorey biomass score (max 3)</b>	<b>2</b>
<b>Bare Ground Score (max 5)</b>	<b>3</b>

**Vegetation Condition Score calculation**

<b>Positive Vegetation Attributes Score</b> = Native species diversity + Regeneration + Native Plant Life Forms + Native:exotic understorey biomass + Tree health + Fallen timber/debris + Hollow-bearing trees <i>If the community is naturally treeless this score is multiplied by 1.23</i>	58.00
<b>Negative Vegetation Attributes Score</b> = Weeds + Bare ground	16.00
<b>VEGETATION CONDITION SCORE</b> (Positive veg attributes x ((Negative vegetation attributes + 60) / 80))	<b>55.10</b>



# Conservation Significance Score

<b>Is the vegetation association considered a Threatened Ecological community or Ecosystem?</b>	<b>Yes/No</b>
State (Provisional List of Threatened Ecosystems of SA) <b>Rare</b> community (0.05 pt)	<input type="checkbox"/>
State (Provisional List of Threatened Ecosystems of SA) <b>Vulnerable</b> community (0.1 pts)	<input type="checkbox"/>
State (Provisional List of Threatened Ecosystems of SA) <b>Endangered</b> community (0.15 pts)	<input type="checkbox"/>
Nationally (EPBC Act) <b>Vulnerable</b> community (0.2 pts)	<input type="checkbox"/>
Contains a Nationally (EPBC Act) <b>Endangered</b> or <b>Critically Endangered</b> community (0.3 pts)	<input type="checkbox"/>
<b>Note: all sites will score a minimum Conservation Significance Score of 1</b>	
<b>Score</b>	<b>1</b>

**Number of Threatened Plant Species recorded for the site (within the site)**

*\*If a species has both a State (NP&W Act) and National (EPBC Act) rating, it's only recorded for its National rating.*

State <b>Rare</b> species recorded (1 pt each)	2
State <b>Vulnerable</b> species recorded (2.5 pt each)	0
State <b>Endangered</b> recorded (5 pts each)	0
Nationally <b>Vulnerable</b> species recorded (10 pts each)	0
Nationally <b>Endangered</b> or <b>Critically endangered</b> species recorded (20 pts each)	0
0 = 0 pts; <2 = 0.02 pts; 2 - <5 = 0.04 pts; 5 - <10 = 0.06 pts; 10 - <20 = 0.08pts; 20 or <= 0.1 pts	2
<b>Score</b>	<b>0.04</b>

**Potential habitat for Threatened Animal Species (number observed or previously recorded)**

*\*If a species has both a State (NP&W Act) and National (EPBC Act) rating, it's only recorded for its National rating.*

State <b>Rare</b> species observed or locally recorded (1 pt each)	15
State <b>Vulnerable</b> species observed or locally recorded (2.5 pt each)	3
State <b>Endangered</b> species observed or locally recorded (5 pt each)	0
Nationally <b>Vulnerable</b> species observed or locally recorded (10 pts each)	0
Nationally <b>Endangered</b> or <b>Critically endangered</b> species observed or locally recorded (20 pts each)	3
0 = 0 pts; <2 = 0.02 pts; 2 - <5 = 0.04 pts; 5 - <10 = 0.06 pts; 10 - <20 = 0.08pts; 20 or <= 0.1 pts	82.5
<b>Score</b>	<b>0.1</b>

**CONSERVATION SIGNIFICANCE SCORE** **1.14**

**Total Scores for the Site**

<b>LANDSCAPE CONTEXT SCORE</b>	<b>Score</b>	<b>1.12</b>
<b>VEGETATION CONDITION SCORE</b>	<b>55.10</b>	
<b>CONSERVATION SIGNIFICANCE SCORE</b>	<b>1.14</b>	

Vegetation Condition x Landscape Context x Conservation Significance = **UNIT BIODIVERSITY SCORE** **70.35**

**Total Biodiversity Score** (Biodiversity Score x hectares) **2.99**

<b>Photo Point and Vegetation Survey Location</b>	<b>Direction of the Photo</b>
	<b>97</b>
	<b>GPS Reference</b> (Eastings and Northings)
	Zone:
	35 44' 18"
	137 0' 9"
	<b>Description</b>

**Assessment for Clearance**

Loss Factor	1.0
Loadings for clearance of protected areas	
Reductions for rehabilitation of impact site	
<b>SEB Points of loss</b>	<b>2.99</b>

<b>SEB Points required</b>	3.14
<b>Hectares required</b>	0.39
<b>Mean Annual rainfall for the site (mm)</b>	755
<b>Payment into the fund</b>	<b>\$2,962.85</b>
<b>Administration fee</b>	<b>\$148.14</b>

# Vegetation Condition Scores Conservation Significance Score

<b>SITE:</b>	Site 29
<b>VEGETATION ASSOCIATION DESCRIPTION</b>	KI 0301 (BCM 1.1)
<b>SIZE OF SITE (Ha)</b>	0
<b>Native Plant species diversity</b>	
Score the diversity of species present in the site as a proportion to what would be expected in a vegetation of that community in very good condition (approaching a pre-European state)	
<5% (3 Points)	<input type="checkbox"/>
5-10% (6 Points)	<input type="checkbox"/>
11 - 20% (9 Points)	<input type="checkbox"/>
21 - 30% (12 Points)	<input type="checkbox"/>
31 - 40 % (15 Points)	<input type="checkbox"/>
41 - 50% (18 Points)	<input type="checkbox"/>
51 - 60% (21 Points)	<input type="checkbox"/>
61 - 70% (24 Points)	<input type="checkbox"/>
71 - 80% (27 Points)	<input type="checkbox"/>
>80% (30 Points)	<input checked="" type="checkbox"/>
<b>Native Plant species diversity score (max score of 30)</b>	<b>30</b>
<b>Weed Scores</b>	
Does the site contain plant species declared under the <i>NRM Act 2004</i> (1.5 points)	<input type="checkbox"/>
Cover rating for all declared weeds (max of 6)	
Does the site contain environmental weeds (introduced plants with the capacity to invade and exclude native species from bushland. This typically includes species with a BCM weed threat rating of 3, 4 or 5). (1 Point)	<input checked="" type="checkbox"/>
Cover rating for all environmental weeds (max of 6)	2
<b>Weed Score (max score of 15)</b>	<b>13</b>
<b>Regeneration</b>	
No regeneration present (0 Points) <input type="checkbox"/>	
Very low regeneration, consisting of highly scattered juvenile plants of a limited number of species (3 points) <input type="checkbox"/>	
Regeneration present, consisting of multiple individual juvenile plants but a limited number of species (6 points) <input type="checkbox"/>	
Multiple species regenerating, but low numbers of juvenile plants (9 points) <input checked="" type="checkbox"/>	
Multiple species regenerating with multiple individual juveniles present with varying age classes (12 points) <input type="checkbox"/>	
<b>Regeneration Score (Max 12)</b>	
<b>9</b>	
<b>Native Plant life form</b>	
All strata of vegetation heavily impacted and native vegetation represented by only scattered plants (4 points) <input type="checkbox"/>	
All strata of vegetation impacted with limited structural diversity, largely uniform age classes and reduced vegetation cover (8 points) <input type="checkbox"/>	
At least one strata of vegetation has been impacted, with reduced structural diversity, elements may be missing (such as plant species that provide specific structural features e.g. sedges or mid layer shrubs) and reduce vegetation cover (12 points) <input type="checkbox"/>	
Limited impacts on native vegetation, with a diversity of structural features and a varied age class, with only a minor loss in structurally diversity, vegetation cover or structural elements (16 points) <input checked="" type="checkbox"/>	
All strata of vegetation present, little or no sign of disturbance. A variety of life forms and associated age classes present. Vegetation cover near complete (20 points) <input type="checkbox"/>	
<b>Native Plant life form score (max 20)</b>	
<b>16</b>	

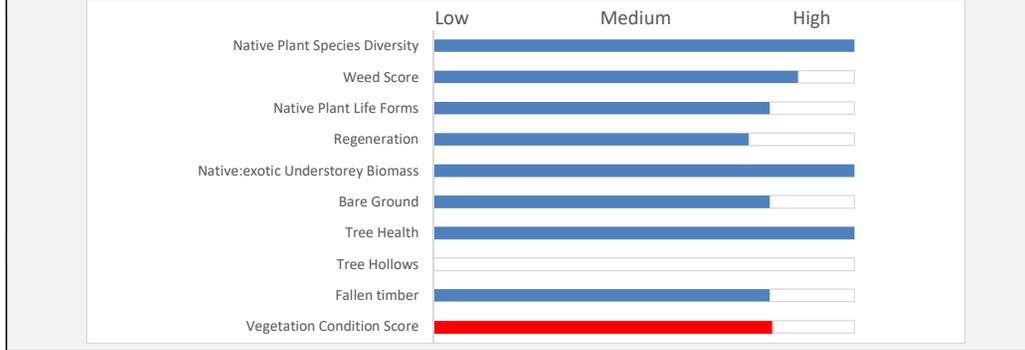
<b>Is the vegetation association considered a Threatened Ecological community or Ecosystem?</b>		<b>Yes/No</b>
State (Provisional List of Threatened Ecosystems of SA) <b>Rare</b> community (0.05 pt)		<input type="checkbox"/>
State (Provisional List of Threatened Ecosystems of SA) <b>Vulnerable</b> community (0.1 pts)		<input type="checkbox"/>
State (Provisional List of Threatened Ecosystems of SA) <b>Endangered</b> community (0.15 pts)		<input type="checkbox"/>
Nationally (EPBC Act) <b>Vulnerable</b> community (0.2 pts)		<input type="checkbox"/>
Contains a Nationally (EPBC Act) <b>Endangered</b> or <b>Critically Endangered</b> community (0.3 pts)		<input type="checkbox"/>
<i>Note; all sites will score a minimum Conservation Significance Score of 1</i>		
<b>Score</b>		<b>1</b>
<b>Number of Threatened Plant Species recorded for the site (within the site)</b>		<b>Number</b>
<i>*If a species has both a State (NP&amp;W Act) and National (EPBC Act) rating, it's only recorded for its National rating.</i>		
State <b>Rare</b> species recorded (1 pt each)		6
State <b>Vulnerable</b> species recorded (2.5 pt each)		0
State <b>Endangered</b> recorded (5 pts each)		1
Nationally <b>Vulnerable</b> species recorded (10 pts each)		0
Nationally <b>Endangered</b> or <b>Critically endangered</b> species recorded (20 pts each)		0
0 = 0 pts; <2 = 0.02 pts; 2 - <5 = 0.04 pts; 5 - <10 = 0.06 pts; 10 - <20 = 0.08pts; 20 or <= 0.1 pts		<b>11</b>
<b>Score</b>		<b>0.08</b>

<b>Potential habitat for Threatened Animal Species (number observed or previously recorded)</b>		<b>Number</b>
<i>*If a species has both a State (NP&amp;W Act) and National (EPBC Act) rating, it's only recorded for its National rating.</i>		
State <b>Rare</b> species observed or locally recorded (1 pt each)		15
State <b>Vulnerable</b> species observed or locally recorded (2.5 pt each)		3
State <b>Endangered</b> species observed or locally recorded (5 pt each)		0
Nationally <b>Vulnerable</b> species observed or locally recorded (10 pts each)		0
Nationally <b>Endangered</b> or <b>Critically endangered</b> species observed or locally recorded (20 pts each)		3
0 = 0 pts; <2 = 0.02 pts; 2 - <5 = 0.04 pts; 5 - <10 = 0.06 pts; 10 - <20 = 0.08pts; 20 or <= 0.1 pts		<b>82.5</b>
<b>Score</b>		<b>0.1</b>
<b>CONSERVATION SIGNIFICANCE SCORE</b>		<b>1.18</b>

<b>Total Scores for the Site</b>		Vegetation Condition x Landscape Context x Conservation Significance =	
<b>LANDSCAPE CONTEXT SCORE</b>	<b>Score</b>	<b>UNIT BIODIVERSITY SCORE</b>	<b>85.23</b>
<b>VEGETATION CONDITION SCORE</b>	<b>64.49</b>	<b>Total Biodiversity Score</b>	
<b>CONSERVATION SIGNIFICANCE SCORE</b>	<b>1.18</b>	<b>(Biodiversity Score x hectares)</b>	<b>0.00</b>

## Vegetation Condition Score calculation

<b>Positive Vegetation Attributes Score</b> = Native species diversity + Regeneration + Native Plant Life Forms + Native:exotic understorey biomass + Tree health + Fallen timber/debris + Hollow-bearing trees	67.00
<i>If the community is naturally treeless this score is multiplied by 1.23</i>	
<b>Negative Vegetation Attributes Score</b> = Weeds + Bare ground	17.00
<b>VEGETATION CONDITION SCORE</b> (Positive veg attributes x ((Negative vegetation attributes + 60) / 80))	<b>64.49</b>



<b>Photo Point and Vegetation Survey Location</b>		<b>Direction of the Photo</b>
		<b>265</b>
		<b>GPS Reference</b>
		(Eastings and Northings)
		Zone:
		35 45 3
136 59 21		
		<b>Description</b>

<b>Assessment for Clearance</b>		<b>SEB Points required</b>	0.00
Loss Factor	1.0	<b>Hectares required</b>	0.00
Loadings for clearance of protected areas		<b>Mean Annual rainfall for the site (mm)</b>	765
Reductions for rehabilitation of impact site		<b>Payment into the fund</b>	<b>\$0.00</b>
<b>SEB Points of loss</b>	<b>0.00</b>	<b>Administration fee</b>	<b>\$0.00</b>

# Vegetation Condition Scores Conservation Significance Score

<b>SITE:</b>	Site 30
<b>VEGETATION ASSOCIATION DESCRIPTION</b>	KI 0301 (BCM KI 1.1)
<b>SIZE OF SITE (Ha)</b>	0

<b>Is the vegetation association considered a Threatened Ecological community or Ecosystem?</b>	<b>Yes/No</b>
State (Provisional List of Threatened Ecosystems of SA) <b>Rare</b> community (0.05 pt)	<input type="checkbox"/>
State (Provisional List of Threatened Ecosystems of SA) <b>Vulnerable</b> community (0.1 pts)	<input type="checkbox"/>
State (Provisional List of Threatened Ecosystems of SA) <b>Endangered</b> community (0.15 pts)	<input type="checkbox"/>
Nationally (EPBC Act) <b>Vulnerable</b> community (0.2 pts)	<input type="checkbox"/>
Contains a Nationally (EPBC Act) <b>Endangered or Critically Endangered</b> community (0.3 pts)	<input type="checkbox"/>
<b>Note: all sites will score a minimum Conservation Significance Score of 1</b>	
<b>Score</b>	<b>1</b>

<b>Native Plant species diversity</b>	
Score the diversity of species present in the site as a proportion to what would be expected in a vegetation of that community in very good condition (approaching a pre-European state)	
<5% (3 Points)	<input type="checkbox"/>
5-10% (6 Points)	<input type="checkbox"/>
11 - 20% (9 Points)	<input type="checkbox"/>
21 - 30% (12 Points)	<input type="checkbox"/>
31 - 40 % (15 Points)	<input type="checkbox"/>
41 - 50% (18 Points)	<input type="checkbox"/>
51 - 60% (21 Points)	<input type="checkbox"/>
61 - 70% (24 Points)	<input type="checkbox"/>
71 - 80% (27 Points)	<input type="checkbox"/>
>80% (30 Points)	<input checked="" type="checkbox"/>
<b>Native Plant species diversity score (max score of 30)</b>	<b>30</b>

<b>Regeneration</b>	
No regeneration present (0 Points)	<input type="checkbox"/>
Very low regeneration, consisting of highly scattered juvenile plants of a limited number of species (3 points)	<input type="checkbox"/>
Regeneration present, consisting of multiple individual juvenile plants but a limited number of species (6 points)	<input type="checkbox"/>
Multiple species regenerating, but low numbers of juvenile plants (9 points)	<input checked="" type="checkbox"/>
Multiple species regenerating with multiple individual juveniles present with varying age classes (12 points)	<input type="checkbox"/>
<b>Regeneration Score (Max 12)</b>	<b>9</b>

<b>Number of Threatened Plant Species recorded for the site (within the site)</b>		<b>Number</b>
<i>*If a species has both a State (NP&amp;W Act) and National (EPBC Act) rating, it's only recorded for its National rating.</i>		
State <b>Rare</b> species recorded (1 pt each)		8
State <b>Vulnerable</b> species recorded (2.5 pt each)		0
State <b>Endangered</b> recorded (5 pts each)		1
Nationally <b>Vulnerable</b> species recorded (10 pts each)		0
Nationally <b>Endangered or Critically endangered</b> species recorded (20 pts each)		0
0 = 0 pts; <2 = 0.02 pts; 2 - <5 = 0.04 pts; 5 - <10 = 0.06 pts; 10 - <20 = 0.08pts; 20 or <= 0.1 pts		<b>13</b>
<b>Score</b>		<b>0.08</b>

<b>Weed Scores</b>	
Does the site contain plant species declared under the <i>NRM Act 2004</i> (1.5 points)	<input type="checkbox"/>
Cover rating for all declared weeds (max of 6)	
Does the site contain environmental weeds (introduced plants with the capacity to invade and exclude native species from bushland. This typically includes species with a BCM weed threat rating of 3, 4 or 5). (1 Point)	<input checked="" type="checkbox"/>
Cover rating for all environmental weeds (max of 6)	2
<b>Weed Score (max score of 15)</b>	<b>13</b>

<b>Native Plant life form</b>	
All strata of vegetation heavily impacted and native vegetation represented by only scattered plants (4 points)	<input type="checkbox"/>
All strata of vegetation impacted with limited structural diversity, largely uniform age classes and reduced vegetation cover (8 points)	<input type="checkbox"/>
At least one strata of vegetation has been impacted, with reduced structural diversity, elements may be missing (such as plant species that provide specific structural features e.g. sedges or mid layer shrubs) and reduce vegetation cover (12 points)	<input type="checkbox"/>
Limited impacts on native vegetation, with a diversity of structural features and a varied age class, with only a minor loss in structurally diversity, vegetation cover or structural elements (16 points)	<input checked="" type="checkbox"/>
All strata of vegetation present, little or no sign of disturbance. A variety of life forms and associated age classes present. Vegetation cover near complete (20 points)	<input type="checkbox"/>
<b>Native Plant life form score (max 20)</b>	<b>16</b>

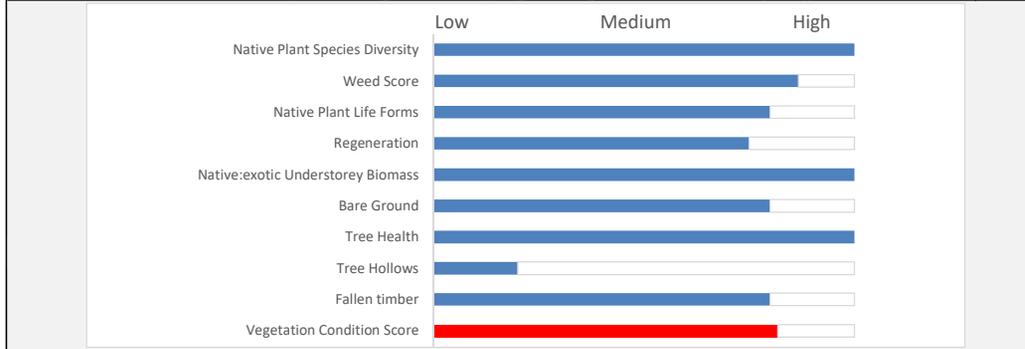
<b>Potential habitat for Threatened Animal Species (number observed or previously recorded)</b>		<b>Number</b>
<i>*If a species has both a State (NP&amp;W Act) and National (EPBC Act) rating, it's only recorded for its National rating.</i>		
State <b>Rare</b> species observed or locally recorded (1 pt each)		15
State <b>Vulnerable</b> species observed or locally recorded (2.5 pt each)		3
State <b>Endangered</b> species observed or locally recorded (5 pt each)		0
Nationally <b>Vulnerable</b> species observed or locally recorded (10 pts each)		0
Nationally <b>Endangered or Critically endangered</b> species observed or locally recorded (20 pts each)		3
0 = 0 pts; <2 = 0.02 pts; 2 - <5 = 0.04 pts; 5 - <10 = 0.06 pts; 10 - <20 = 0.08pts; 20 or <= 0.1 pts		<b>82.5</b>
<b>Score</b>		<b>0.1</b>
<b>CONSERVATION SIGNIFICANCE SCORE</b>		<b>1.18</b>

<i>Is the community naturally treeless?</i>	<input type="checkbox"/>
<b>Tree Health Score (max 5)</b>	<b>5</b>
<b>Fallen timber/debris (max 5)</b>	<b>4</b>
<b>Hollow-bearing trees Score (max 5)</b>	<b>1</b>
<b>Native:exotic Understorey biomass score (max 3)</b>	<b>3</b>
<b>Bare Ground Score (max 5)</b>	<b>4</b>

<b>Total Scores for the Site</b>		Vegetation Condition x Landscape Context x Conservation Significance =	
<b>LANDSCAPE CONTEXT SCORE</b>	<b>Score 1.12</b>	<b>UNIT BIODIVERSITY SCORE</b>	<b>86.50</b>
<b>VEGETATION CONDITION SCORE</b>	<b>65.45</b>	<b>Total Biodiversity Score</b>	
<b>CONSERVATION SIGNIFICANCE SCORE</b>	<b>1.18</b>	<b>(Biodiversity Score x hectares)</b>	<b>0.00</b>

## Vegetation Condition Score calculation

<b>Positive Vegetation Attributes Score</b> = Native species diversity + Regeneration + Native Plant Life Forms + Native:exotic understorey biomass + Tree health + Fallen timber/debris + Hollow-bearing trees <i>If the community is naturally treeless this score is multiplied by 1.23</i>	<b>68.00</b>
<b>Negative Vegetation Attributes Score</b> = Weeds + Bare ground	<b>17.00</b>
<b>VEGETATION CONDITION SCORE</b> (Positive veg attributes x ((Negative vegetation attributes + 60) / 80))	<b>65.45</b>



<b>Photo Point and Vegetation Survey Location</b>		<b>Direction of the Photo</b>
		<b>156</b>
		<b>GPS Reference</b> (Eastings and Northings)
		Zone:
		No GPS Data
<b>Description</b>		

<b>Assessment for Clearance</b>		<b>SEB Points required</b>	<b>0.00</b>
Loss Factor	1.0	<b>Hectares required</b>	<b>0.00</b>
Loadings for clearance of protected areas		<b>Mean Annual rainfall for the site (mm)</b>	<b>766</b>
Reductions for rehabilitation of impact site		<b>Payment into the fund</b>	<b>\$0.00</b>
<b>SEB Points of loss</b>	<b>0.00</b>	<b>Administration fee</b>	<b>\$0.00</b>

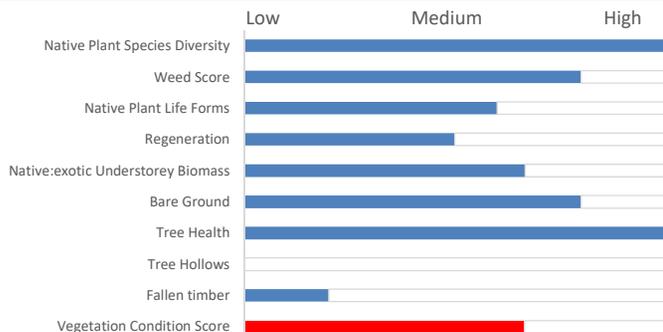


## Vegetation Condition Scores

<b>SITE:</b>	Site 32
<b>VEGETATION ASSOCIATION DESCRIPTION</b>	KI 2502 (BCM KI7.3)
<b>SIZE OF SITE (Ha)</b>	0.0235
<b>Native Plant species diversity</b>	
Score the diversity of species present in the site as a proportion to what would be expected in a vegetation of that community in very good condition (approaching a pre-European state)	
<5% (3 Points)	<input type="checkbox"/>
5-10% (6 Points)	<input type="checkbox"/>
11 - 20% (9 Points)	<input type="checkbox"/>
21 - 30% (12 Points)	<input type="checkbox"/>
31 - 40 % (15 Points)	<input type="checkbox"/>
41 - 50% (18 Points)	<input type="checkbox"/>
51 - 60% (21 Points)	<input type="checkbox"/>
61 - 70% (24 Points)	<input type="checkbox"/>
71 - 80% (27 Points)	<input type="checkbox"/>
>80% (30 Points)	<input checked="" type="checkbox"/>
<b>Native Plant species diversity score (max score of 30)</b>	<b>30</b>
<b>Weed Scores</b>	
Does the site contain plant species declared under the <i>NRM Act 2004</i> (1.5 points)	<input type="checkbox"/>
Cover rating for all declared weeds (max of 6)	
Does the site contain environmental weeds (introduced plants with the capacity to invade and exclude native species from bushland. This typically includes species with a BCM weed threat rating of 3, 4 or 5). (1 Point)	<input checked="" type="checkbox"/>
Cover rating for all environmental weeds (max of 6)	3
<b>Weed Score (max score of 15)</b>	<b>12</b>
<i>Is the community naturally treeless?</i>	<input type="checkbox"/>
<b>Tree Health Score (max 5)</b>	<b>5</b>
<b>Fallen timber/debris (max 5)</b>	<b>1</b>
<b>Hollow-bearing trees Score (max 5)</b>	<b>0</b>
<b>Native:exotic Understorey biomass score (max 3)</b>	<b>2</b>
<b>Bare Ground Score (max 5)</b>	<b>4</b>

### Vegetation Condition Score calculation

<b>Positive Vegetation Attributes Score</b> = Native species diversity + Regeneration + Native Plant Life Forms + Native:exotic understorey biomass + Tree health + Fallen timber/debris + Hollow-bearing trees <i>If the community is naturally treeless this score is multiplied by 1.23</i>	56.00
<b>Negative Vegetation Attributes Score</b> = Weeds + Bare ground	16.00
<b>VEGETATION CONDITION SCORE</b> (Positive veg attributes x ((Negative vegetation attributes + 60) / 80))	<b>53.20</b>



## Conservation Significance Score

<b>Is the vegetation association considered a Threatened Ecological community or Ecosystem?</b>	<b>Yes/No</b>
State (Provisional List of Threatened Ecosystems of SA) <b>Rare</b> community (0.05 pt)	<input type="checkbox"/>
State (Provisional List of Threatened Ecosystems of SA) <b>Vulnerable</b> community (0.1 pts)	<input type="checkbox"/>
State (Provisional List of Threatened Ecosystems of SA) <b>Endangered</b> community (0.15 pts)	<input type="checkbox"/>
Nationally (EPBC Act) <b>Vulnerable</b> community (0.2 pts)	<input type="checkbox"/>
Contains a Nationally (EPBC Act) <b>Endangered</b> or <b>Critically Endangered</b> community (0.3 pts)	<input type="checkbox"/>
<b>Note: all sites will score a minimum Conservation Significance Score of 1</b>	
<b>Score</b>	<b>1</b>

<b>Number of Threatened Plant Species recorded for the site (within the site)</b>	<b>Number</b>
<i>*If a species has both a State (NP&amp;W Act) and National (EPBC Act) rating, it's only recorded for its National rating.</i>	
State <b>Rare</b> species recorded (1 pt each)	3
State <b>Vulnerable</b> species recorded (2.5 pt each)	0
State <b>Endangered</b> recorded (5 pts each)	0
Nationally <b>Vulnerable</b> species recorded (10 pts each)	0
Nationally <b>Endangered</b> or <b>Critically endangered</b> species recorded (20 pts each)	0
0 = 0 pts; <2 = 0.02 pts; 2 - <5 = 0.04 pts; 5 - <10 = 0.06 pts; 10 - <20 = 0.08pts; 20 or < = 0.1 pts	3
<b>Score</b>	<b>0.04</b>

<b>Potential habitat for Threatened Animal Species (number observed or previously recorded)</b>	<b>Number</b>
<i>*If a species has both a State (NP&amp;W Act) and National (EPBC Act) rating, it's only recorded for its National rating.</i>	
State <b>Rare</b> species observed or locally recorded (1 pt each)	15
State <b>Vulnerable</b> species observed or locally recorded (2.5 pt each)	3
State <b>Endangered</b> species observed or locally recorded (5 pt each)	0
Nationally <b>Vulnerable</b> species observed or locally recorded (10 pts each)	0
Nationally <b>Endangered</b> or <b>Critically endangered</b> species observed or locally recorded (20 pts each)	3
0 = 0 pts; <2 = 0.02 pts; 2 - <5 = 0.04 pts; 5 - <10 = 0.06 pts; 10 - <20 = 0.08pts; 20 or < = 0.1 pts	82.5
<b>Score</b>	<b>0.1</b>
<b>CONSERVATION SIGNIFICANCE SCORE</b>	<b>1.14</b>

### Total Scores for the Site

<b>LANDSCAPE CONTEXT SCORE</b>	<b>Score</b>	1.12	Vegetation Condition x Landscape Context x Conservation Significance = <b>UNIT BIODIVERSITY SCORE</b>	<b>67.93</b>
<b>VEGETATION CONDITION SCORE</b>		53.20		
<b>CONSERVATION SIGNIFICANCE SCORE</b>		1.14		
<b>Total Biodiversity Score</b>				
<b>(Biodiversity Score x hectares)</b>				

<b>Photo Point and Vegetation Survey Location</b>	<b>Direction of the Photo</b>
	<b>136</b>
	<b>GPS Reference</b> (Eastings and Northings)
	Zone:
	35 47' 29"
	136 58' 52"
<b>Description</b>	

### Assessment for Clearance

<b>Loss Factor</b>	1.0	<b>SEB Points required</b>	1.68
<b>Loadings for clearance of protected areas</b>		<b>Hectares required</b>	0.21
<b>Reductions for rehabilitation of impact site</b>		<b>Mean Annual rainfall for the site (mm)</b>	783
<b>SEB Points of loss</b>	<b>1.60</b>	<b>Payment into the fund</b>	<b>\$1,640.45</b>
		<b>Administration fee</b>	<b>\$82.02</b>