



BUSHLAND ASSESSMENT

NORTH COAST ROAD

JOHNCOCK ROAD TO PLAYFORD HIGHWAY

28 JANUARY 2018

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This report was researched and prepared by



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

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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

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Inspection

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

Clearance Proposal

Location	North Coast Road from Johncock Road to Playford Highway
Road Length	11.30 km
Purpose	Upgrade the roadway to a width of 8.5m
Clearance Proposal	0.2545 ha to widen the roadway to 8.5m
Proposed SEB	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.

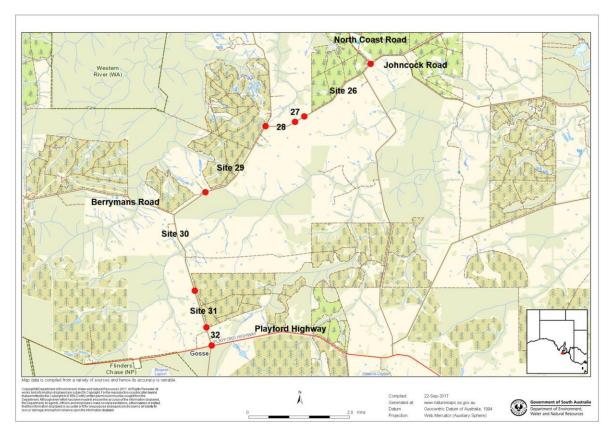


Figure 2- Block 3

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.

Bushlan	Bushland Assessment Date 1, 8, 13 and 20 September 2017										
Site	Site Er	nd Point	Community	ВСМ	Substantially Intact Vegetation						
Sile	Latitude	Longitude	Community	DCIVI							
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 a	1, 8, 13 and 20 September 2017									
	Site 26	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.

Bushlan	d Assessment Dat	e 1, 8, 13 and 20 Sept	ember 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
TOTAL	130	20	19	

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.

Data sourced from:	Native Vegetation Council Threatened Fauna Habitat Spreadsheet Naturemaps- recorded within 5km of the Block Bushland Assessments 1, 8, 13 and 20 September 2017								
Status Source	Gillam, S. and Urban, R. (2014)								
Common Name		Conserv	Conservation Status						
Common Name		AU	SA	KI					
Birds									
Musk Duck			R	RA					
Bush Stonecurlew			R						
Shy Heathwren			R	RA					
Yellow-tailed Black Cod	ckatoo		V	RA					
Peregrine Falcon			R	VU					
Lewin's Rail			V	VU					
Purple-gaped Honeyea	ter		R						
Restless Flycatcher			R	VU					
Elegant Parrot			R	RA					
Spotless Crake			R	VU					
Western Whipbird			R	RA					
Beautiful Firetail			R						
Southern Emu-wren (K	l ssp)		R	RA					
Painted Buttonquail			R	EN					
Bassian Thrush			R	VU					
Little Wattlebird				RA					
Mammals									
Common Brushtail Pos			R						
Southern Brown Bandio	coot	EN	V						
Short-beaked Echidna		EN							
Swamp Rat			R	VU					
Kangaroo Island Dunna		EN	Е	CR					
Reptiles and Amphibians									
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
Threatened Fauna Score	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Unit Biodiversity Score	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 S	Septemb	er 2017	
Conservation Status Source	Gillam, S	S. and U	rban, R.	(2014)	
Species			Status		Site
Ореспез		AU	SA	KI	Offic
Calytrix smeatoniana			R		29, 30
Caladenia sanguinea			R		26
Centrolepis glabra			R		31
Eucalyptus fasciculosa			R		26, 29
Gleichenia microphylla			R	VU	30
Hibbertia glebosa ssp oblonga			R		26, 30
Hibbertia platyphylla ssp halmaturi	na			VU	26
Lepidosperma longitudinal				RA	32
Lepidosperma semiteres				RA	26, 27, 28, 29, 30, 31
Leptospermum lanigerum				RA	30
Lepyrodia valliculae			R		26, 27, 28, 29, 30, 31, 32
Marianthus bignoniaceus				RA	30, 31
Pterostylis melagramma			Е	VU	30, 31
Pultenaea laxiflora				RA	31
Rhytidosporum procumbens	Rhytidosporum procumbens		R	VU	29, 30, 31, 32
Spyridium spathulatum Thelymitra flexuosa			R		29
			R		29, 30
Thelymitra ixoides			Е	#	26, 29
Xanthorrhoea semiplana ssp tateana			R		26, 27, 28, 29, 30, 31, 32
Xanthosia tasmanica			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
Threatened Flora Score	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.

Bushland Assessment Date			1, 8, 13 and 20 September 2017								
Other Data				Kangaroo Island Floristic Vegetation Mapping NatureMaps							
Status Source				Willoughby, N, Oppermann, A., Innes, R.W. (2001) Provisional List Of Threatened Ecosystems Of South Australia (DEH 2009)							
Formation	Original	SA		New Detailed Floristic Description	Conse	rvation	Status				
	ID	VEG	ID		Α	SA	KI				
Woodland	3A	KI 03	01	Eucalyptus arenacea/baxteri, Eucalyptus obliqua, Eucalyptus cosmophylla low woodland over Allocasuarina striata, Banksia marginata, Banksia ornata, +/- Hakea rostrata, +/-Allocasuarina muelleriana ssp. notocolpica shrubs							
Shrubland	25B	KI 25	02	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							

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	No
 e.g. near a township, adjacent to a main road or tourist route 	
Cultural or historical values and local community views	No
Number and distribution of trees to be cleared	
how many trees will be retained?	Nil
 would removal of the trees change the landscape character? 	No
Species and size of trees	
 large trees generally have more impressive landscape quality 	No value
 red gums, because of their size, are often considered of high 	
landscape value	
Condition and shape	
 trees suffering extensively from dieback are not generally aesthetically 	No value
pleasing	
well-shaped trees may be considered of greater landscape quality.	

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	✓	✓	✓	✓	✓	✓	✓
Intact Stratum	No	No	No	Yes	Yes	No	No

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.

Princip	le	Assessment Outcome	
а	Plant species diversity	Seriously at Variance	
b	Wildlife habitat	Seriously at Variance	
С	Rare plant species	Seriously at Variance	
d	Rare plant communities	At Variance	
е	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; and	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; and/or	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	
BLOCK 3	11.30		0.2545	

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
Total	20.11	21.11	2.63	\$20,186.91	1,009.35

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	SEB Points	Hectares			Administration
Loss	Required	Required	OR	the Fund	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



7.0 Bibliography

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Appendix 1- Nationally Threatened Plants Potential Habitat

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



Appendix 2- Block 3- Bushland Assessment Scoresheets

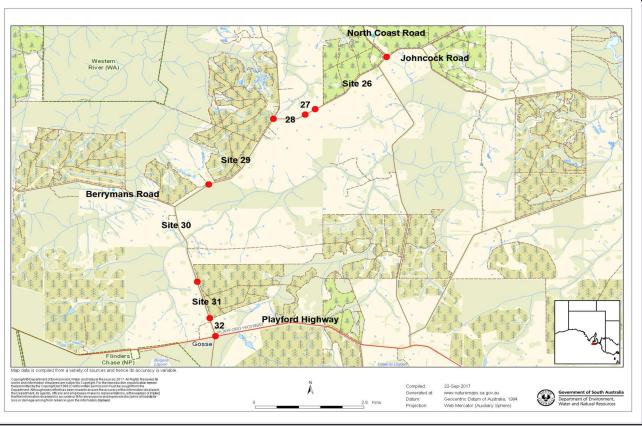


Bushland Assessment Scoresheet (Small Sites)

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

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

Map of the Block (Including the Sites)



Landscape Context Scores	Distance to remnant area of more than				
Landscape Context Ocores		50 hectares (km) enter 0km for contiguous	0.00		
Percent Vegetation Cover (5km radius) (%)	45	>3km = 0 pts; 1-3km = 0.01 pt; <1km = 0.02 pts;			
0-5% = 0 pts; >5-10% = 0.01 pts; >10-25% = 0.02 pts		contiguous = 0.03 pts Score	0.03		
>25-50% = 0.03 pts; >50-75% = 0.01 pt; >75-100% =	0 pts				
Score	0.03	% native veg. remaining in IBRA Assoc.	48		
		0-2% = 0.05 pts; >2-5% = 0.04 pts; >5-10% = 0.03 pts	;;		
Block Shape Cleared perimeter:Area (km/km2)		>10-20%= 0.02 pts; >20-50%= 0.01 pt; >50% = 0 pts			
Cleared Perimeter (m) =	10000	Score	0.01		
Cleared Perimeter to area ratio	3929.27				
<6 = 0.03 pts; 6 to <12 = 0.02 pts; 12 to <18 = 0.01 pt		% native veg. protected IBRA Assoc.	73		
Score	0	0-5% = 0.03 pts; >5-10% = 0.02 pts; >10-25% = 0.01	pt;		
		>25% = 0 Score	0		
Size of remnant patch (incl. native veg on adjacent					
properties) (Hectares)	510	Wetland or Riparian Habitat present			
Patch size less than 2 ha = 0 pts; Patch size 2-5 ha =	0.01 pt;	Riparian zone present (Yes/No) = 0.02 pt			
Patch size 5-10 ha = 0.02 pts; Patch size 10-20 ha =	0.03 pts;	Swamp/wetland present (Yes/No) = 0.03 pts			
Patch size 20-100 ha = 0.04 pts; Patch size >100 ha	= 0.05 pts;	(Swamp/wetland may be +/- riparian zone)			
	0.05	Score	0		

Vegetation Condition Scores				Conservation Significance Score		
SITE:	Site 26			Is the vegetation association considered a Threatened Ecologica	al community or Ecosystem?	Yes/No
VEGETATION ASSOCIATION DESCRIPTION	KI 0301 ((BCM 1.1)		State (Provisional List of Threatened Ecosystems of SA) Rare community (0.05 pt)		
SIZE OF SITE (Ha)	0.119			State (Provisional List of Threatened Ecosystems of SA) Vulne	erable community (0.1 pts)	
				State (Provisional List of Threatened Ecosystems of SA) Enda	ngered community (0.15 pts)	
Native Plant species diversity		Regeneration		Nationally (EPBC Act) Vulnerable community (0.2 pts)		
Score the diversity of species present in the site as a proport		No regeneration present (0 Points)		Contains a Nationally (EPBC Act) Endangered or Critically E	ndangered community (0.3 pts)	
what would be expected in a vegetation of that community in good condition (approaching a pre-European state)	very		l	Note; all sites will score a minimum Conservation Significance Score	of 1 Score	e 1
, , , , , ,		Very low regeneration, consisting of highly scattered				1
<5% (3 Points)		Regeneration No regeneration present (0 Points) Very low regeneration, consisting of highly scattered juvinile plants of a limited number of species (3 points) Regeneration present, consisting of multiple individual juvinile plants but a limited number of species (6 points) Multiple species regenerating, but low numbers of juvenile plants (9 points) Multiple species regenerating with multiple individual juviniles present with varying age classes (12 points) Regeneration Score (Max 12) Native Plant life form All strata of vegetation heavily impacted and native vegetation represented by only scattered plants (4 points) All strata of vegetation impacted with limited structural diversity, largely uniform age classes and reduced vegetation cover (8 points) 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) 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) 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) Native Plant life form score (max 20) 1 Regeneration + Native Plant Life Forms + Native:exotic-bearing trees		Number of Threatened Plant Species recorded for the site		Number
5-10% (6 Points)				*If a species has both a State (NP&W Act) and National (EPBC	Act) rating, it's only recorded for its National ratio	ng.
11 - 20% (9 Points)				State Rare species recorded (1 pt each)		5
21 - 30% (12 Points)		,		State Vulnerable species recorded (2.5 pt each) State Endangered recorded (5 pts each)		0
31 - 40 % (15 Points)						1
41 - 50% (18 Points) 51 - 60% (21 Points)				Nationally Vulnerable species recorded (10 pts each) Nationally Endangered or Critically endangered species reco	orded (20 pts each)	1 0
61 - 70% (24 Points)	H				5 - <10 = 0.06 pts; 10 - <20 = 0.08pts; 20 or < = 0.1 pt	s 10
71 - 80% (27 Points)		Regeneration Score (Max 12)	6		Scor	
>80% (30 Points)	7					
				Potential habitat for Threatened Animal Species (number of		Number
WestOren				*If a species has both a State (NP&W Act) and National (EPBC	C Act) rating, it's only recorded for its National rational	-
Weed Scores	_	-9(-		State Rare species observed or locally recorded (1 pt each)	onch)	15
Does the site contain plant species declared under the NRM Act 2004 (1.5 points)		All strata of vegetation impacted with limited structural		State Vulnerable species observed or locally recorded (2.5 pt State Endangered species observed or locally recorded (5 pt		1 0
Cover rating for all declared weeds (max of 6)		diversity, largely uniform age classes and reduced		Nationally Vulnerable species observed or locally recorded (10 pts each)		0
Does the site contain environmental weeds (introduced		vegetation cover (8 points)		Nationally Endangered or Critically endangered species obs	erved or locally recorded (20 pts each)	3
plants with the capacity to invade and exclude native	v	with reduced structural diversity, elements may be missing (such as plant species that provide specific structural features e.g. sedges or mid layer shrubs)		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 pt	s 82.5
species from bushland. This typically includes species with				Scor	e 0.1	
a BCM weed threat rating of 3, 4 or 5). (1 Point)				CONCERVATION CICNIFICANCE COORE		440
Cover rating for all environmental weeds (max of 6)	2			CONSERVATION SIGNIFICANCE SCORE		1.18
Weed Score (max score of 15)	13	of structural features and a varied age class, with only a minor loss in structurally diversity, vegetation cover				
				Total Scores for the Site	Vegetation Condition x Landscape Cor	itext x
Is the community naturally treeless?			Score	Conservation Significance =		
Tree Health Score (max 5)	5	or structural elements (16 points)		LANDSCAPE CONTEXT SCORE 1.12	UNIT BIODIVERSITY SCORE	81.41
Fallen timber/debris (max 5) Hollow-bearing trees Score (max 5)	0			VEGETATION CONDITION SCORE 61.60 CONSERVATION SIGNIFICANCE SCORE 1.18	Total Biodiversity Score	0.60
Trollow-bearing trees ocore (max 5)	U			(Blodiversity Score x	(Biodiversity Score x hectares)	9.69
Native:exotic Understorey biomass score (max 3)	3			Photo Point and Vegetation Survey Location	Direction of the Pho	to
Bare Ground Score (max 5)	4	Native Plant life form score (max 20)	16		3.00	
V (() 0		•			153	
Vegetation Condition Score calculation					GPS Reference	
understorey biomass + Tree health + Fallen timber/debris +				45年,1987年,19	(Eastings and Northin	igs)
If the community is naturally treeless this score is multiplied by 1.2		earing trees	64 00		Zone: 35 43' 53"	
Negative Vegetation Attributes Score = Weeds + Bare gro			17.00		137 1' 9"	
VEGETATION CONDITION SCORE (Positive veg attributes	x ((Nega	tive vegetation attributes + 60) / 80))	61.60		Description	
Low		Medium High				
Native Plant Species Diversity						
Weed Score						
Native Plant Life Forms						
Regeneration						
Native:exotic Understorey Biomass				WHAT I WAS A COMMON TO THE STATE OF THE STAT		
Bare Ground				with an and College Co		
Tree Health						
Tree Hollows				Assessment for Clearance	SEB Points required	10.17
				Loss Factor 1.0	Hectares required	1.27
Fallen timber				Loadings for clearance of protected areas	Mean Annual rainfall for the site (mm)	756
					Mean Annual rainfall for the site (mm) Payment into the fund Administration fee	756 \$9,612.78 \$480.64

Vegetation Condition Scores				Conservation Significance Score	
SITE:	Site 27			Is the vegetation association considered a Threatened Ecological community or Ecosystem?	Yes/No
VEGETATION ASSOCIATION DESCRIPTION	KI 2502	(BCM 7.4)		State (Provisional List of Threatened Ecosystems of SA) Rare community (0.05 pt)	
SIZE OF SITE (Ha)	0.0145			State (Provisional List of Threatened Ecosystems of SA) Vulnerable community (0.1 pts)	
	_			State (Provisional List of Threatened Ecosystems of SA) Endangered community (0.15 pts)	
Native Plant species diversity		Regeneration		Nationally (EPBC Act) Vulnerable community (0.2 pts)	
Score the diversity of species present in the site as a property		No regeneration present (0 Points)		Contains a Nationally (EPBC Act) Endangered or Critically Endangered community (0.3 pts)	
what would be expected in a vegetation of that community	in very			Note; all sites will score a minimum Conservation Significance Score of 1 Score	1
good condition (approaching a pre-European state)		Very low regeneration, consisting of highly scattered			
<5% (3 Points)		Regeneration No regeneration present (0 Points) Very low regeneration, consisting of highly scattered juvinile plants of a limited number of species (3 points) Regeneration present, consisting of multiple individual juvinile plants but a limited number of species (6 points) Multiple species regenerating, but low numbers of juvenile plants (9 points) Multiple species regenerating with multiple individual juviniles present with varying age classes (12 points) Regeneration Score (Max 12) 30 Native Plant life form All strata of vegetation heavily impacted and native vegetation represented by only scattered plants (4 points) All strata of vegetation impacted with limited structural diversity, largely uniform age classes and reduced vegetation cover (8 points) 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) 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) 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) Native Plant life form score (max 20) 12 13 14 15 16 17 18 19 19 19 19 10 10 10 11 11 12 13 14 15 16 17 17 18 19 19 19 10 10 10 10 10 11 11	Number of Threatened Plant Species recorded for the site (within the site)	Number	
5-10% (6 Points)			*If a species has both a State (NP&W Act) and National (EPBC Act) rating, it's only recorded for its National rating		
11 - 20% (9 Points)		, , , , , , , , , , , , , , , , , , , ,		State Rare species recorded (1 pt each)	2
21 - 30% (12 Points)		points)		State Vulnerable species recorded (2.5 pt each)	0
31 - 40 % (15 Points)					
41 - 50% (18 Points)				Nationally Vulnerable species recorded (10 pts each)	0
51 - 60% (21 Points)		juviniles present with varying age classes (12 points)		Nationally Endangered or Critically endangered species recorded (20 pts each)	0
61 - 70% (24 Points) 71 - 80% (27 Points)			-	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	0.04
>80% (30 Points)	<u> </u>	Inegeneration ocore (wax 12)	1 3	Score	0.04
Native Plant species diversity score (max score of 30)		Native Plant life form		Potential habitat for Threatened Animal Species (number observed or previously recorded)	Number
				*If a species has both a State (NP&W Act) and National (EPBC Act) rating, it's only recorded for its National rating	
Weed Scores				State Rare species observed or locally recorded (1 pt each)	15
Does the site contain plant species declared under the		• ,		State Vulnerable species observed or locally recorded (2.5 pt each)	3
NRM Act 2004 (1.5 points)		diversity, largely uniform age classes and reduced vegetation cover (8 points) At least one strata of vegetation has been impacted, with reduced structural diversity, elements may be		State Endangered species observed or locally recorded (5 pt each)	0
Cover rating for all declared weeds (max of 6)				Nationally Vulnerable species observed or locally recorded (10 pts each) Nationally Endangered or Critically endangered species observed or locally recorded (20 pts each)	
Does the site contain environmental weeds (introduced plants with the capacity to invade and exclude native				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	
species from bushland. This typically includes species wi	h 🖳		Score		
a BCM weed threat rating of 3, 4 or 5). (1 Point)	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)	Score	0.1		
-		structural features e.g. sedges or mid layer shrubs) and reduce vegetation cover (12 points)	CONSERVATION SIGNIFICANCE SCORE	1.14	
Cover rating for all environmental weeds (max of 6)	_	and reduce vegetation cover (12 points)			
Weed Score (max score of 15)	13			Total Socres for the Site Vegetation Condition x Landscape Conte	vt v
la the community naturally traclace?		of structural features and a varied age class, with only		Total Scores for the Site Vegetation Condition X Landscape Control Conservation Significance =	, AL A
Is the community naturally treeless? Tree Health Score (max 5)				LANDSCAPE CONTEXT SCORE 1.12 UNIT BIODIVERSITY SCORE	65.50
Fallen timber/debris (max 5)		, ,		VEGETATION CONDITION SCORE 51.30 Total Biodiversity Score	00.00
Hollow-bearing trees Score (max 5)			L_{\Box}	CONSERVATION SIGNIFICANCE SCORE 1.14 (Biodiversity Score x hectares)	0.95
				(
Native:exotic Understorey biomass score (max 3)	3			Photo Point and Vegetation Survey Location Direction of the Photo)
Bare Ground Score (max 5)	3	Native Plant life form score (max 20)	12	200	
Vagatation Candition Spare calculation				222 GPS Reference	
Vegetation Condition Score calculation	diversity . E	Paganaration Nativa Plant Life Forms Nativa avetic			-)
understorey biomass + Tree health + Fallen timber/debris				(Eastings and Northing Zone:	>)
If the community is naturally treeless this score is multiplied by		caring it cos	54.00		
Negative Vegetation Attributes Score = Weeds + Bare					
VEGETATION CONDITION SCORE (Positive veg attribut	es x ((Nega	tive vegetation attributes + 60) / 80))	51.30	Description	
L	ow	Medium High			
Native Plant Species Diversity					
				WALLEY BOLD TO THE TOTAL OF THE PARTY OF THE	
W 10					
Weed Score					
Weed Score Native Plant Life Forms					
Native Plant Life Forms					
Native Plant Life Forms Regeneration Native:exotic Understorey Biomass					
Native Plant Life Forms Regeneration Native:exotic Understorey Biomass Bare Ground					_
Native Plant Life Forms Regeneration Native:exotic Understorey Biomass				Assessment for Clearance SER Points required	100
Native Plant Life Forms Regeneration Native:exotic Understorey Biomass Bare Ground				Assessment for Clearance Loss Factor 101 Hectares required Hectares required	1.00
Native Plant Life Forms Regeneration Native:exotic Understorey Biomass Bare Ground Tree Health				Assessment for Clearance Loss Factor 1.0 Loadings for clearance of protected areas SEB Points required Hectares required Mean Annual rainfall for the site (mm)	1.00 0.12 759
Native Plant Life Forms Regeneration Native:exotic Understorey Biomass Bare Ground Tree Health Tree Hollows				Loss Factor 1.0 Hectares required	0.12

Select (Personand Last of Threatenest Ecosystems of SA) (Personand Last of Threatenest	Vegetation Condition Scores				Conservation Significance Score		
Sale (Proclared List of Processors) Sale (Proclared List of Processors) Sale (Proclared List of Processors of Sale Agriculture) Sale (Processors of	SITE:	Site 28			Is the vegetation association considered a Threatened Ecological community or Ecosystem?		Yes/No
Name Plant species diversity Scote No. Species (1997) Species	VEGETATION ASSOCIATION DESCRIPTION	KI 0301 (BCM 1.1)		State (Provisional List of Threatened Ecosystems of SA) Rare community (0.05 pt)		
State (Provisional Laboration of Sky) Endingered community (0.15 ps) Nature Plant species diversity Nature Plant species div	SIZE OF SITE (Ha)	0.0425			State (Provisional List of Threatened Ecosystems of SA) Vulnerable community (0.1 pts)		
Source the diversity of species greaters in the eith or a proportion of hydrocolling is pieced in avergation of index community in very pool or control (species and average species of a very species of positive plants of all anticle naturated or species (P. positive) 12. 20% (12 Parish) 13. 40% (15 Parish) 14. 40% (15 Parish) 15. 40% (15 Parish) 15. 40% (15 Parish) 16. 40% (15 Parish) 17. 40% (17 Parish) 18. 40% (18 Parish) 18. 40% (18 Parish) 19. 40% (18 P		•			State (Provisional List of Threatened Ecosystems of SA) Endangered community (0.15 pts)		
what would be expected in a vegetation of that community in very good condition representable give the proposal material (1997) for registration, consisting of highly scattered (1997) for the proposal public of a limited number of species (1997) for the proposal public of th	Native Plant species diversity		Regeneration		Nationally (EPBC Act) Vulnerable community (0.2 pts)		
Section Sect	1		No regeneration present (0 Points)		Contains a Nationally (EPBC Act) Endangered or Critically Endangered community (0.3 pts)		
Seption Sept		n very			Note; all sites will score a minimum Conservation Significance Score of 1	Score	1
Side Devision	good condition (approaching a pre-European state)		Very low regeneration, consisting of highly scattered	╽╙			
State Parely Dentey Dent	,		Regeneration No regeneration present (0 Points) Very low regeneration, consisting of highly scattered juvinile plants of a limited number of species (3 points) Regeneration present, consisting of multiple individual juvinile plants but a limited number of species (6 points) Multiple species regenerating, but low numbers of juvenile plants (9 points) Multiple species regenerating with multiple individual juviniles present with varying age classes (12 points) Regeneration Score (Max 12) 6 Native Plant life form All strata of vegetation heavily impacted and native vegetation represented by only scattered plants (4 points) All strata of vegetation impacted with limited structural diversity, largely uniform age classes and reduced vegetation cover (8 points) 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) 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) 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) Native Plant life form score (max 20) 12 Regeneration + Native Plant Life Forms + Native:exotic obearing trees 58.00 16.00 55.10			Number	
Section Processing Proces	, ,			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	nal rating	1.	
A - 20 1/2 Porting	·						2
64 - 50% (18 Pouris) 10 - 70% (29 Pouris)			pointer				0
Sin - 60% (2) Portins							0
Source Second Second Second Secon	,						0
Second S						- 0.1 mts	0
Signification of the potential pacies (diversity score (max score of 50) 3) Native Plant life form Weed Score Weed Score Weed Score Weed Score Weed Score (max 50) 4 (1 spoint) Does the size contain environmental weeds (imrouted) Spoints with the capacity (b imroids and exclude native species (points) All strata of vegetation inspaced with instelled structural dependency (b imroids and exclude native species (points) All strata of vegetation inspaced with instelled structural dependency (b imroids and exclude native species (points) All strata of vegetation inspaced with instelled structural dependency (b imroids and exclude native species (points) All strata of vegetation inspaced with instelled structural dependency (b imroids and exclude native species (points) All strata of vegetation inspaced with instelled structural dependency (b imroids and exclude native species (points) All strata of vegetation inspaced with instelled structural dependency (b imroids and exclude native species (points) All strata of vegetation inspaced with instelled structural dependency (b imroids and exclude native species (points)) All strata of vegetation inspaced with instelled structural dependency (b imroids and exclude native species (points)) All strata of vegetation inspaced with instelled structural dependency (b imroids and exclude native species (points)) All strata of vegetation inspaced with instelled structural dependency (b imroids) All strata of vegetation inspaced with instelled structural dependency (b imroids) All strata of vegetation inspaced with instelled structural dependency (b imroids) All strata of vegetation inspaced with instelled structural dependency (b imroids) All strata of vegetation inspaced with instelled structural dependency (b imroids) All strata of vegetation inspaced with instelled structural dependency (b imroids) All strata of vegetation inspaced vegetation cover (12 points) All strata of vegetation inspaced vegetation cover (12 points) All strata of vegetation insp				6	0 = 0 pis; <2 = 0.02 pis; 2 - <5 = 0.04 pis; 5 - < 10 = 0.06 pis; 10 - <20 = 0.06pis; 20 01 <		0.04
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All strate of vegetation impacted with limited structural cover rainty for all declared weeks (max of 6) Does the site contain environmental weeks (introduced plants with the capacity to invade and exclude native species from bushland. This typically includes species with a ESCM weed threat rating of 3, 4 of 5, (1) (1) Point of the community naturally reverses. (b) (1) Point of the community naturally reverses? Tree Helions All strate of vegetation attributes Score (8 points) All strate or vegetation with limited structural diversity, elegent on the species where yet or locally recorded (20 pts each) All strate or vegetation with limited structural diversity, elegent on the vegetation with limited structural vegetation and exclude native species sheemed to focally recorded (20 pts each) Nationally Endangered or Critically endangered species observed or locally recorded (20 pts each) Nationally Endangered or Critically rendangered species observed or locally recorded (20 pts each) Nationally Endangered or Critically rendangered species observed or locally recorded (20 pts each) Nationally Endangered or Critically rendangered species observed or locally recorded (20 pts each) Nationally Endangered or Critically rendangered species observed or locally recorded (20 pts each) Nationally Endangered or Critically rendangered species observed or locally recorded (20 pts each) Nationally Endangered or Critically rendangered species observed or locally recorded (20 pts each) Nationally Endangered or Critically rendangered species observed or locally recorded (20 pts each) Nationally Endangered or Critically rendangered species observed or locally recorded (20 pts each) Nationally Endangered or Critically rendangered species observed or locally recorded (20 pts each) Nationally Endangered or Critically rendangered species observed or locally recorded (20 pts each) Nationally Endangered or Critically rendangered species observed or locally recorded (20 pts each) National Rendangered or Critically vegetati							15
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Assessment for Clearance Lower Regulation Low				Ιп			0
plants with the capacity to investe and exclude native species with a general control of the plant species with a BCM weed threat rating of 3, 4 or 5). (1 Point) 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. agedges or mild flaver shrubs) Weed Score (max 5) Tree Health Score (max 5) Fallen timberdiphoris (max 5) All strate of vegetation cover (12 points) Initiated impacts on native vegetation, with a diversity of structural elements (16 points) All strate of vegetation present, little or no sign of disturbance. A variety of life forms and associated age dasses present. Vegetation cover near complete (20 points) Native sacrotic Understorey biomass score (max 3) All vegetation Condition Score calculation Positive Vegetation Condition Score (max 5) Native Plant Life forms score (max 20) Native Plant Life forms score (max 3) Regeneration Native Plant Life forms Regeneration Native Regen	` '		vegetation cover (8 points)				3
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a BCM weed threat rating of 3, 4 or 5), (1 Point) Cover rating for all environmental weeds (max of 6) Weed Score (max score of 15) Is the community naturally treeless? Tree Health Score (max 5) Sall Hollow-bearing trees Score (max 5) Native exactic Understorey biomass score (max 5) Vegetation Condition Score (max 3) Vegetation Condition Score calculation Positive Vegetation Attributes Score Invalve Species diversity + Regeneration + Native Plant Life Forms + Native-exotic Understorey Biomass + Tree health + Flate Intheriberity is Plant plant plant of the Stare ground Native Plant Species Diversity Weed Score (max 5) Native Plant Inference Invalve Score Invalve Species (Mersity) + Regeneration High Invalve Plant Life Forms + Native-exotic Understorey Biomass + Tree health Fallen Intheriberity + Flate Intheriberity +			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)	5 5 pts, 2 5.52 pts, 2 5 5.51 pts, 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		0.1	
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Total Scores for the Site Score Native Plant life forms and sassociated age class, with only a minor loss in structurally diversity, vegetation cover or structural elements (fe points) S Fallen timber/debris (max 5) S S S S S S S S S		13					
Is the community naturally treeless? Tree Health Score (max 5) Saltation Interesting (Mersity) (Mersity), regetation cover or sign of disturbance. A variety of life forms and associated age class, swing for structural elements (16 points) All strata of vegetation present, little or no sign of disturbance. A variety of life forms and associated age class, swing points) Native:exotic Understorey blomass score (max 3) Vegetation Condition Score (and 5) Vegetation Condition Score (and 5) Vegetation Condition Score (and 5) Native Vegetation Attributes Score = Native species diversity + Regeneration + Native:exotic understorey blomass + Tree health + Fallen timber/debris + Hollow-bearing trees If the community in a tree health health is a series of the series	Weed Score (max score or 15)	13		۱ ــ	Total Coores for the Cite Vegetation Condition x Landsca	pe Cont	ext x
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Fallen timber/debris (max 5)			of structural features and a varied age class, with only a minor loss in structurally diversity, vegetation cover	3		70.35	
Hollow-bearing trees Score (max 5) 0 disturbance. A variety of life forms and associated age classes present. Vegetation cover near complete (20 points). Native Plant Life forms and associated age classes present. Vegetation cover near complete (20 points). Native Plant Life forms core (max 20) 12 Vegetation Condition Score calculation Positive Vegetation Attributes Score - Native species diversity + Regeneration + Native Plant Life Forms + Native:exotic understorey biomass + Tree health + Fallent imber/debris + Hollow-bearing trees If the community is naturally treeless this score is multiplied by 1:23 Negative Vegetation Attributes Score = Weeds + Bare ground VEGETATION CONDITION SCORE (Positive veg attributes x ((Negative vegetation attributes + 60) / 80)) 55.10 Native Plant Life Forms Regeneration Native:exotic Understorey biomass + Tree health + Fallent imber/debris + Hollow-bearing trees Native Plant Life Forms - Native vegetation attributes + 60) / 80)) 55.10 Native Plant Life Forms - Native:exotic Understorey Biomass Regeneration + Native:exotic Understorey Biomass Regeneration Native:exotic Understorey Biomass Regenera			` ' '		VEGETATION CONDITION SCORE 55.10 Total Biodiversity Score		
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Same Ground Score (max 5) 3 Native Plant Life form score (max 20) 12				_			
Vegetation Condition Score calculation Positive Vegetation Attributes Score = Native species diversity + Regeneration + Native Plant Life Forms + Native:exotic understorey biomass + Tree health + Fallen timber/debris + Hollow-bearing trees If the community is naturally treeless this score is multiplied by 1.23 Regative Vegetation Attributes Score = Weeds + Bare ground			, ,			he Photo)
Vegetation Condition Score calculation Positive Vegetation Attributes Score = Native species diversity + Regeneration + Native Plant Life Forms + Native:exotic understorey blomass + Tree health + Fallen timber/debris + Hollow-bearing trees If the community is naturally treeless this score is multiplied by 1.23 [Regative Vegetation Attributes Score = Weeds + Bare ground VEGETATION CONDITION SCORE (Positive veg attributes x ((Negative vegetation attributes + 60) / 80)) Low Medium High Native Plant Species Diversity Weed Score Native Plant Life Forms Regeneration Native:exotic Understorey Blomass Bare Ground Tree Health Tree Hollows Assessment for Clearance Loss Factor 1.0 SEB Points required Hectares required	Bare Ground Score (max 5)	3	Native Plant life form score (max 20)	12			
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Negative Vegetation Attributes Score = Weeds + Bare ground VEGETATION CONDITION SCORE (Positive veg attributes x ((Negative vegetation attributes + 60) / 80)) Low Medium High Native Plant Species Diversity Weed Score Native Plant Life Forms Regeneration Native:exotic Understorey Biomass Bare Ground Tree Health Tree Health Tree Hollows Assessment for Clearance Loss Factor 1.0 Loss Factor 1.0 SEB Points required Hectares required							,
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Low Medium High Native Plant Species Diversity Weed Score Native Plant Life Forms Regeneration Native:exotic Understorey Biomass Bare Ground Tree Health Tree Hollows Assessment for Clearance Loss Factor SEB Points required Hectares required							
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Native Plant Life Forms Regeneration Native:exotic Understorey Biomass Bare Ground Tree Health Tree Health Tree Hollows Assessment for Clearance Loss Factor 1.0 SEB Points required Hectares required	Native Plant Species Diversity						
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Assessment for Clearance Loss Factor 1.0 SEB Points required Hectares required	Regeneration						
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Tree Hollows Tree Hollows Assessment for Clearance Loss Factor 1.0 Hectares required Hectares required	Tree Health						
Loss Factor 1.0 Hectares required					Assessment for Clearance SEB Points required		3.14
Fallen timber					Loss Factor 1.0 Hectares required		0.39
Educings for obtained of protected areas	Fallen timber				Loadings for clearance of protected areas Mean Annual rainfall for the site	mm)	755
	Vegetation Condition Score						\$2,962.85
SEB Points of loss 2.99 Administration fee \$14					SEB Points of iOSS 2.99 Administration fee		\$148.14

Tree Hollows Fallen timber Vegetation Condition Score Vegetation Condition Score Loss Factor Loadings for clearance of protected areas Reductions for rehabilitation of impact site Hectares required Mean Annual rainfall for the site (mm) 765 Reductions for rehabilitation of impact site Payment into the fund \$0.00	Vegetation Condition Scores				Conservation Significance Score		
State Provisional Line of Treatment Exceptions of Sky Undersafe community (1) play) Packer Pearls species discovering the National properties of the state as preparation of the state and the state and the state of the state and the state and the state of the state and the state and the state of the state and the state	SITE:	Site 29			Is the vegetation association considered a Threatened Ecological community or Ecosystem?		Yes/No
Make Paris species diversity Some fine develop of species (present in the site as proportion to 10 plus presents on the present of the species of the section of the present of the species of the section of the present of the species of the section of the present of the species of the section of the present of the species of the section of the present of the species of the species of the section of the species of the speci	VEGETATION ASSOCIATION DESCRIPTION	KI 0301 ((BCM 1.1)		State (Provisional List of Threatened Ecosystems of SA) Rare community (0.05 pt)		
Name Parlies species deversity of process present in the cities as proportions of the completed for short order of the completed in a suppleted of the suppleted in a suppleted of the supplet	SIZE OF SITE (Ha)	0			State (Provisional List of Threatened Ecosystems of SA) Vulnerable community (0.1 pts)		
Scarle Research (Particular)					State (Provisional List of Threatened Ecosystems of SA) Endangered community (0.15 pts)		
with decay do expected in a vegetation of their community in every control of control of professional			Regeneration		Nationally (EPBC Act) Vulnerable community (0.2 pts)		
Water Contraction (approaching a few European state)			No regeneration present (0 Points)		Contains a Nationally (EPBC Act) Endangered or Critically Endangered community (0.3 pts)		
Seek Planning		n very		l	Note; all sites will score a minimum Conservation Significance Score of 1	Score	1
Segondaria de la production presente, connociting of multiple individuals production presente, connociting of multiple individuals production of the produ	****						
Substrate Plant appears developed (2 pt care) Substrate Plant (2 pt care) Substrate (2 pt care) Substrate (3 pt care)	,		Regeneration No regeneration present (0 Points) Very low regeneration, consisting of highly scattered juvinile plants of a limited number of species (3 points) Regeneration present, consisting of multiple individual juvinile plants but a limited number of species (6 points) Multiple species regenerating, but low numbers of juvenile plants (9 points) Multiple species regenerating with multiple individual juviniles present with varying age classes (12 points) Regeneration Score (Max 12) Native Plant life form All strata of vegetation heavily impacted and native vegetation represented by only scattered plants (4 points) 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) 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) 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) Native Plant life form score (max 20) 1 Regeneration + Native Plant Life Forms + Native:exotic bearing trees 67.0 17.0 Gative vegetation attributes + 60) / 80))				1 1 1
3130% (15 Plants) 4150% (16 Plants) 5170% (16 Plants) 5170	,				, , , , , , , , , , , , , , , , , , ,	ational rating	1.
21 - 30 / 15 / 15 / 10 / 15 / 15 / 10 / 15 / 15							6
44 - 56% (6) Portes			,				0
51 60% (2) Positis							1
15 - 770% (24 Poxes)	,			_			0
Seed Scarce Seed				╽Ш		or < = 0.1 pts	11
Native Plant species diversity score (max score of 30) 3 1 1 1 1 1 1 1 1 1			Regeneration Score (Max 12)	9			
Weed Scores Medical Secretary Medical Sec		<u> </u>				1	
Weed Score in Section of the section	Native Plant species diversity score (max score of 30)	30					
Does the afte contain plant appoints goolaned under the Mark Act 2004 (15 points) Cover rating for all declared weeks (max of 6) Does the safe contain environmental weeks (introduced plants with incapacity to invalid and excluder native plants with the capacity to invalid and excluder native appeals on the control of						ational rating	
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Does the site contain environmental weeds (introduced pints with the capacity to invade and exclude native species of the content of the cont							0
All least one strata of vegetation has been impacted, species from bushind and. This typically includes species with the department of the development of the develop	` '		vegetation cover (8 points)				3
species from bushland. This typically includes species with a 26 Me weed freezing of 3, 4 of 5) (1 Point) Weed Score (max score of 15) Some Community naturally prefersor Some (as Score (max score of 15) Some Community naturally prefersor Some (as Score (max score of 15) Some Community naturally prefersor Some (as Score (max score of 15) Some Community naturally prefersor Some (as Score (max score of 15) Some Community naturally prefersor Some (as Score (max score of 15) Some Community naturally prefersor Some (as Score (max score of 15) Some Community naturally prefersor Some (as Score (max score of 15) Some Community naturally prefersor Some (as Score (max score of 15) Some Community naturally prefersor Some (as Score (max score of 15) Some Community naturally prefersor Some (as Score (max score of 15) Some Community naturally prefersor Some (as Score (max score of 15) Some Community naturally prefersor Some (as Score (max score of 15) Some Community naturally prefersor Some (as Score (max score of 15) Some Community naturally prefersor Some (as Score (max score of 15) Some Community naturally prefersor Some (max score of 15) Some Community naturally prefersor Some (max score of 15) Some Community naturally prefersor Some (max score of 15) Some Community naturally prefersor Some (max score of 15) Some Community naturally prefersor Some Some (max score (max					0 = 0 pts; <2 = 0.02 pts; 2 - <5 = 0.04 pts; 5 - <10 = 0.06 pts; 10 - <20 = 0.08pts; 20 of	or < = 0.1 pts	82.5
Cover rating for all environmental weeds (max of 6) 2 2 2 2 2 2 2 2 2			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)		Score	0.1	
Accordance Cover rating for all environmental weeds (max of 6) 2 2 3 3 4 4 4 4 4 4 4 4	a BCM weed threat rating of 3, 4 or 5). (1 Point)			CONCERVATION CICNIFICANCE CCORE		4.40	
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Name First species devertally Note: The Control of Approximation of the Selbs on a proportion of the S	VEGETATION ASSOCIATION DESCRIPTION	KI 0301 ((BCM KI 1.1)		State (Provisional List of Threatened Ecosystems of SA) Rare community (0.05 pt)	
Name Plant sacking diversity Regular article Regular ar	SIZE OF SITE (Ha)	0			State (Provisional List of Threatened Ecosystems of SA) Vulnerable community (0.1 pts)	
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Joseph Controllor (a) pro-European state) Series (S. Parins) S. 10% (P. Perins) S.			No regeneration present (0 Points)		Contains a Nationally (EPBC Act) Endangered or Critically Endangered community (0.3 pts)	
See Specific Control (1) See Specific Control		n very			Note; all sites will score a minimum Conservation Significance Score of 1 Score	1
Segment Company Comp	good condition (approaching a pre-European state)		Regeneration No regeneration present (0 Points) Very low regeneration, consisting of highly scattered juvinile plants of a limited number of species (3 points) Regeneration present, consisting of multiple individual juvinile plants but a limited number of species (6 points) Multiple species regenerating, but low numbers of juvenile plants (9 points) Multiple species regenerating with multiple individual juviniles present with varying age classes (12 points) Regeneration Score (Max 12) Native Plant life form All strata of vegetation heavily impacted and native vegetation represented by only scattered plants (4 points) All strata of vegetation impacted with limited structural diversity, largely uniform age classes and reduced vegetation cover (8 points) 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) 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) 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) Native Plant life form score (max 20) 10 Regeneration + Native Plant Life Forms + Native:exotic bearing trees 68.00 17.00 Agative vegetation attributes + 60) / 80))	╽╙		
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21 - 36 h 15 Position 1 - 10 h	11 - 20% (9 Points)			╽╙		8
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All least one statutar of least one statutar	` '					3
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Vegetation Condition Score calculation	Bare Ground Score (max 5)	4	Native Plant life form score (max 20)	16		
Positive Vegetation Attributes Score = Native species diversity + Regeneration + Native Plant Life Forms + Native:exotic understorey biomass + Tree health + Fallen timber/debris + Hollow-bearing trees Keastings and Northings According to the Plant Species bias received by 1.23 68.00	Vegetation Condition Score calculation					
understorey biomass + Tree health + Fallen timber debrits + Hollow-bearing trees If the community is naturally treeless this score is multiplied by 1.23 Regative Vegetation Attributes Score = Weeds + Bare ground VEGETATION CONDITION SCORE (Positive veg attributes x ((Negative vegetation attributes + 60) / 80)) Low Medium High Native Plant Species Diversity Weed Score Native Plant Life Forms Regeneration Native.exotic Understorey Biomass Bare Ground Tree Health Tree Hollows Fallen timber Assessment for Clearance Loss Factor Loadings for clearance of protected areas Fallen timber Weed Score Native Plant Life Forms Regueration Reductions for rehabilitation of impact site Payment into the fund \$\frac{1}{1.0}\$ Med Annual rainfall for the site (mm) 766 Reductions for rehabilitation of impact site		ersitv + R	legeneration + Native Plant Life Forms + Native:exotic		(Eastings and Northing	s)
Negative Vegetation Attributes Score = Weeds + Bare ground VEGETATION CONDITION SCORE (Positive veg attributes x ((Negative vegetation attributes + 60) / 80)) Low Medium High Native Plant Species Diversity Weed Score Native Plant Life Forms Regeneration Native:exotic Understorey Biomass Bare Ground Tree Health Tree Hollows Fallen timber Vegetation Condition Score Vegetation Condition Score Reductions for rehabilitation of impact site Assessment for Clearance Los SEB Points required D.00					The state of the s	,
VEGETATION CONDITION SCORE (Positive veg attributes x ((Negative vegetation attributes + 60) / 80)) Low Medium High Native Plant Species Diversity Weed Score Native Plant Life Forms Regeneration Native:exotic Understorey Biomass Bare Ground Tree Health Tree Health Free Hollows Fallen timber Vegetation Condition Score Vegetation Condition Score Vegetation Condition Score Payment into the fund \$0.00 Reductions for rehabilitation of impact site Payment into the fund \$0.00 Payment into the fund \$0.0						
Low Medium High Native Plant Species Diversity Weed Score Native Plant Life Forms Regeneration Native:exotic Understorey Biomass Bare Ground Tree Health Tree Hellows Fallen timber Vegetation Condition Score Low Medium High Assessment for Clearance Loss Factor Loss Factor Loss Factor Reductions for rehabilitation of impact site Reductions for rehabilitation of impact site Payment into the fund Score						
Native Plant Species Diversity Weed Score Native Plant Life Forms Regeneration Native:exotic Understorey Biomass Bare Ground Tree Health Tree Health Tree Hollows Fallen timber Vegetation Condition Score Native:exotic Understorey Biomass Bare Ground Tree Health Tree Health Tree Hollows Fallen timber Vegetation Condition Score Native:exotic Understorey Biomass Bare Ground Tree Health Tree Health Tree Hollows Fallen timber Vegetation Condition Score Native:exotic Understorey Biomass Bare Ground Tree Health Tree Health Tree Hollows Fallen timber Reductions for rehabilitation of impact site Native:exotic Understorey Biomass Bare Ground Tree Health Tree Health Tree Health Tree Hollows Fallen timber Native:exotic Understorey Biomass Bare Ground Tree Health Tree Healt	VEGETATION CONDITION SCORE (Positive veg attributes	x ((Nega	tive vegetation attributes + 60) / 80))	65.45	Description	
Weed Score Native Plant Life Forms Regeneration Native:exotic Understorey Biomass Bare Ground Tree Health Tree Hollows Fallen timber Vegetation Condition Score Weed Score Native Plant Life Forms Regeneration Native:exotic Understorey Biomass Bare Ground Loss Factor Loss Factor Loss Factor Reductions for clearance of protected areas Reductions for rehabilitation of impact site SEB Points required Hectares required Mean Annual rainfall for the site (mm) Mean Annual rainfall for the site (mm) Payment into the fund \$0.00	Low	/	Medium High			
Native Plant Life Forms Regeneration Native:exotic Understorey Biomass Bare Ground Tree Health Tree Hellows Fallen timber Vegetation Condition Score Native Plant Life Forms Regeneration Native:exotic Understorey Biomass Bare Ground Tree Health Tree Hellows Fallen timber Vegetation Condition Score Native Plant Life Forms Regeneration Native:exotic Understorey Biomass Bare Ground Tree Health Tree Hellows Fallen timber Loadings for Clearance Reductions for rehabilitation of impact site SEB Points required Hectares required Mean Annual rainfall for the site (mm) Mean Annual rainfall for the site (mm) Payment into the fund \$0.00	Native Plant Species Diversity					
Regeneration Native:exotic Understorey Biomass Bare Ground Tree Health Tree Health Tree Hollows Fallen timber Vegetation Condition Score Regeneration Native:exotic Understorey Biomass Bare Ground Assessment for Clearance Loss Factor Loadings for clearance of protected areas Reductions for rehabilitation of impact site SEB Points required Hectares required Mean Annual rainfall for the site (mm) 766 Payment into the fund \$0.00	Weed Score					
Regeneration Native:exotic Understorey Biomass Bare Ground Tree Health Tree Health Tree Hollows Fallen timber Vegetation Condition Score Regeneration Native:exotic Understorey Biomass Bare Ground Assessment for Clearance Loss Factor Loadings for clearance of protected areas Reductions for rehabilitation of impact site SEB Points required Hectares required Mean Annual rainfall for the site (mm) 766 Payment into the fund \$0.00	Native Plant Life Forms					
Native:exotic Understorey Biomass Bare Ground Tree Health Tree Health Tree Hollows Fallen timber Vegetation Condition Score Native:exotic Understorey Biomass Bare Ground ASSESSMENT FOR Clearance Loss Factor Loadings for clearance of protected areas Reductions for rehabilitation of impact site SEB Points required Hectares required Mean Annual rainfall for the site (mm) 766 Payment into the fund \$0.00						
Assessment for Clearance Tree Health Tree Hollows Fallen timber Vegetation Condition Score Assessment for Clearance Loss Factor Loadings for clearance of protected areas Reductions for rehabilitation of impact site SEB Points required 0.00 Hectares required Mean Annual rainfall for the site (mm) 766 Payment into the fund \$0.00	Regeneration					
Assessment for Clearance Loss Factor Loadings for clearance of protected areas Vegetation Condition Score Assessment for Clearance Loss Factor Loadings for clearance of protected areas Reductions for rehabilitation of impact site SEB Points required 0.00 Hectares required Mean Annual rainfall for the site (mm) 766 Payment into the fund \$0.00	Native:exotic Understorey Biomass					
Assessment for Clearance Loss Factor Loadings for clearance of protected areas Vegetation Condition Score Assessment for Clearance Loss Factor Loadings for clearance of protected areas Reductions for rehabilitation of impact site SEB Points required 0.00 Hectares required Mean Annual rainfall for the site (mm) 766 Payment into the fund \$0.00	Bare Ground					
Assessment for Clearance Loss Factor Loadings for clearance of protected areas Vegetation Condition Score Assessment for Clearance Loss Factor Loadings for clearance of protected areas Reductions for rehabilitation of impact site SEB Points required 0.00 Hectares required Mean Annual rainfall for the site (mm) 766 Payment into the fund \$0.00	Tree Health					
Fallen timber Vegetation Condition Score Vegetation Condition Score Loss Factor Loadings for clearance of protected areas Reductions for rehabilitation of impact site Loss Factor Loadings for clearance of protected areas Reductions for rehabilitation of impact site Payment into the fund \$0.00 Payment into the fund \$0.00 \$0.00	Tree Hollows					
Vegetation Condition Score Vegetation Condition Score Reductions for rehabilitation of impact site Payment into the fund \$0.00						
	Fallen timber					
OLD FORMS OF 1035 V.OV Familiant attorn Ref \$0.00	Vegetation Condition Score					
					0.00 Administration lee	ψ0.00

Vegetation Condition Scores				Conservation Significance Score	
SITE:	Site 31			Is the vegetation association considered a Threatened Ecological community or Ecosystem?	Yes/No
VEGETATION ASSOCIATION DESCRIPTION	KI 0301	(BCM KI 1.1)		State (Provisional List of Threatened Ecosystems of SA) Rare community (0.05 pt)	
SIZE OF SITE (Ha)	0.055			State (Provisional List of Threatened Ecosystems of SA) Vulnerable community (0.1 pts)	
				State (Provisional List of Threatened Ecosystems of SA) Endangered community (0.15 pts)	
Native Plant species diversity		Regeneration		Nationally (EPBC Act) Vulnerable community (0.2 pts)	
Score the diversity of species present in the site as a proportion		No regeneration present (0 Points)		Contains a Nationally (EPBC Act) Endangered or Critically Endangered community (0.3 pts)	
what would be expected in a vegetation of that community good condition (approaching a pre-European state)	in very	Very low regeneration, consisting of highly scattered		Note; all sites will score a minimum Conservation Significance Score of 1 Score	1
<5% (3 Points)		juvinile plants of a limited number of species (3 points)		Number of Threatened Plant Species recorded for the site (within the site)	Number
5-10% (6 Points)		Regeneration present, consisting of multiple individual		*If a species has both a State (NP&W Act) and National (EPBC Act) rating, it's only recorded for its National rating	1.
11 - 20% (9 Points)		juvinile plants but a limited number of species (6		State Rare species recorded (1 pt each)	4
21 - 30% (12 Points)		points)		State Vulnerable species recorded (2.5 pt each)	0
31 - 40 % (15 Points)		Multiple species regenerating, but low numbers of		State Endangered recorded (5 pts each)	1
41 - 50% (18 Points)		juvenile plants (9 points)		Nationally Vulnerable species recorded (10 pts each)	0
51 - 60% (21 Points)		Multiple species regenerating with multiple individual		Nationally Endangered or Critically endangered species recorded (20 pts each)	0
61 - 70% (24 Points)		juviniles present with varying age classes (12 points)		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	9
71 - 80% (27 Points)		Regeneration Score (Max 12)	12	Score	0.06
>80% (30 Points) Native Plant species diversity score (max score of 30)	30	Native Plant life form		Potential habitat for Threatened Animal Species (number observed or previously recorded)	Number
mative i lant species diversity score (max score of 50)	30	All strata of vegetation heavily impacted and native		*If a species has both a State (NP&W Act) and National (EPBC Act) rating, it's only recorded for its National rating	
Weed Scores		vegetation represented by only scattered plants (4		State Rare species observed or locally recorded (1 pt each)	15
Does the site contain plant species declared under the	Ιп	points)		State Vulnerable species observed or locally recorded (2.5 pt each)	3
NRM Act 2004 (1.5 points)		All strata of vegetation impacted with limited structural		State Endangered species observed or locally recorded (5 pt each)	0
Cover rating for all declared weeds (max of 6)		vegetation cover (8 points) At least one strata of vegetation has been impacted, with reduced structural diversity, elements may be	Nationally Vulnerable species observed or locally recorded (10 pts each)		
Does the site contain environmental weeds (introduced				Nationally Endangered or Critically endangered species observed or locally recorded (20 pts each)	3
plants with the capacity to invade and exclude native		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)	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	
species from bushland. This typically includes species with	1		Score	0.1	
a BCM weed threat rating of 3, 4 or 5). (1 Point)	vegetation represented by only scattered plants (4 points) All strata of vegetation impacted with limited structural diversity, largely uniform age classes and reduced vegetation cover (8 points) 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) 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) 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	CONSERVATION SIGNIFICANCE SCORE	1.16		
Cover rating for all environmental weeds (max of 6)	2	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) Limited impacts on native vegetation, with a diversity of structural features and a varied age class, with only	CONSERVATION SIGNIFICANCE SCORE	1.16	
Weed Score (max score of 15)	13	I imited impacts on native vegetation, with a diversity			
				Total Scores for the Site Vegetation Condition x Landscape Conte	ext x
Is the community naturally treeless?	_	and reduce vegetation cover (12 points) 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)	Score Conservation Significance =		
Tree Health Score (max 5)			LANDSCAPE CONTEXT SCORE 1.12 UNIT BIODIVERSITY SCORE	88.67	
Fallen timber/debris (max 5)				VEGETATION CONDITION SCORE 68.25 Total Biodiversity Score	
Hollow-bearing trees Score (max 5)	U			CONSERVATION SIGNIFICANCE SCORE 1.16 (Biodiversity Score x hectares)	4.88
Nativa versia Understarev hiemana acere (may 2)	3	classes present. Vegetation cover near complete (20 points)		Photo Point and Vegetation Survey Location Direction of the Photo	
Native:exotic Understorey biomass score (max 3) Bare Ground Score (max 5)	5	Native Plant life form score (max 20)	16		,
Bare Ground Score (max 3)	J	INduve i fant life form score (max 20)	1	124	
Vegetation Condition Score calculation				GPS Reference	
Positive Vegetation Attributes Score = Native species d	iversity + F	Regeneration + Native Plant Life Forms + Native:exotic		(Eastings and Northings	s)
understorey biomass + Tree health + Fallen timber/debris		earing trees		Zone:	
If the community is naturally treeless this score is multiplied by			70.00		
Negative Vegetation Attributes Score = Weeds + Bare g		the control of the territory (00) (00))	18.00		
VEGETATION CONDITION SCORE (Positive veg attribute	es x ((Nega		68.25	Description	
Lo	W	Medium High			
Native Plant Species Diversity					
Weed Score					
Native Plant Life Forms					
Regeneration					
Native:exotic Understorey Biomass					
Bare Ground					
Tree Health					
				Assessment for Clearance SEB Points required	5.12
Tree Hollows				Loss Factor 1.0 Hectares required	0.64
Fallen timber				Loadings for clearance of protected areas Mean Annual rainfall for the site (mm)	785
Vegetation Condition Score				Reductions for rehabilitation of impact site Payment into the fund	\$5,024.70
				SEB Points of loss 4.88 Administration fee	\$251.24

Vegetation Condition Scores				Conservation Significance Score		
SITE:	Site 32			Is the vegetation association considered a Threatened Ecological community or Ecosystem?	Yes/N	No
VEGETATION ASSOCIATION DESCRIPTION	KI 2502	(BCM KI7.3)		State (Provisional List of Threatened Ecosystems of SA) Rare community (0.05 pt)		
SIZE OF SITE (Ha)	0.0235			State (Provisional List of Threatened Ecosystems of SA) Vulnerable community (0.1 pts)		
				State (Provisional List of Threatened Ecosystems of SA) Endangered community (0.15 pts)		
Native Plant species diversity		Regeneration		Nationally (EPBC Act) Vulnerable community (0.2 pts)		
Score the diversity of species present in the site as a proportion of that community		No regeneration present (0 Points)		Contains a Nationally (EPBC Act) Endangered or Critically Endangered community (0.3 pts)		
what would be expected in a vegetation of that community good condition (approaching a pre-European state)		Very low regeneration, consisting of highly scattered		Note; all sites will score a minimum Conservation Significance Score of 1	ore	1
<5% (3 Points)		juvinile plants of a limited number of species (3 points)		Number of Threatened Plant Species recorded for the site (within the site)	Numb	er
5-10% (6 Points)		Regeneration present, consisting of multiple individual		*If a species has both a State (NP&W Act) and National (EPBC Act) rating, it's only recorded for its National r	ating.	
11 - 20% (9 Points)		juvinile plants but a limited number of species (6 points)		State Rare species recorded (1 pt each)		3
21 - 30% (12 Points)		points)		State Vulnerable species recorded (2.5 pt each)		0
31 - 40 % (15 Points)		Multiple species regenerating, but low numbers of		State Endangered recorded (5 pts each)		0
41 - 50% (18 Points)		juvenile plants (9 points)		Nationally Vulnerable species recorded (10 pts each)		0
51 - 60% (21 Points)		Multiple species regenerating with multiple individual juviniles present with varying age classes (12 points)		Nationally Endangered or Critically endangered species recorded (20 pts each)		0
61 - 70% (24 Points)				0 = 0 pts; <2 = 0.02 pts; 2 - <5 = 0.04 pts; 5 - <10 = 0.06 pts; 10 - <20 = 0.08pts; 20 or < = 0.0	·	3
71 - 80% (27 Points) >80% (30 Points)		Regeneration Score (Max 12)	6	So	ore	0.04
Native Plant species diversity score (max score of 30)	30	Native Plant life form		Potential habitat for Threatened Animal Species (number observed or previously recorded)	Numb	ner
The species are signed to the state of the s		All strata of vegetation heavily impacted and native		*If a species has both a State (NP&W Act) and National (EPBC Act) rating, it's only recorded for its National r		
Weed Scores		vegetation represented by only scattered plants (4		State Rare species observed or locally recorded (1 pt each)	Ĭ	15
Does the site contain plant species declared under the		points)		State Vulnerable species observed or locally recorded (2.5 pt each)		3
NRM Act 2004 (1.5 points)		All strata of vegetation impacted with limited structural		State Endangered species observed or locally recorded (5 pt each)		0
Cover rating for all declared weeds (max of 6)				Nationally Vulnerable species observed or locally recorded (10 pts each)		0
Does the site contain environmental weeds (introduced				Nationally Endangered or Critically endangered species observed or locally recorded (20 pts each)		3
plants with the capacity to invade and exclude native	V			0 = 0 pts; <2 = 0.02 pts; 2 - <5 = 0.04 pts; 5 - <10 = 0.06 pts; 10 - <20 = 0.08pts; 20 or < = 0.00 pts; 2		82.5
species from bushland. This typically includes species with a BCM weed threat rating of 3, 4 or 5). (1 Point)	All strata of vegetation impacted with limited structural diversity, largely uniform age classes and reduced vegetation cover (8 points) 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) 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) All strata of vegetation present, little or no sign of VEGE	Sc	ore	0.1		
a BOW weed threat fathing of 5, 4 of 5). (11 offic)		CONSERVATION SIGNIFICANCE SCORE	1.14	4		
Cover rating for all environmental weeds (max of 6)	_	structural features e.g. sedges or mid layer shrubs) and reduce vegetation cover (12 points) Limited impacts on native vegetation, with a diversity				
Weed Score (max score of 15)	12	Limited impacts on native vegetation, with a diversity				
				Total Scores for the Site Vegetation Condition x Landscape C	ontext x	
Is the community naturally treeless?				Score Conservation Significance = UNIT BIODIVERSITY SCORE		67.00
Tree Health Score (max 5) Fallen timber/debris (max 5)		` ' '		VEGETATION CONDITION SCORE 53.20 Total Biodiversity Score	,	67.93
Hollow-bearing trees Score (max 5)	0		_	CONSERVATION SIGNIFICANCE SCORE 1.14 (Biodiversity Score x hectares)		1.60
Trement assuming trees costs (max o)		disturbance. A variety of life forms and associated age classes present. Vegetation cover near complete (20		(Diodiversity ocore x nectares)		1.00
Native:exotic Understorey biomass score (max 3)	2	points)		Photo Point and Vegetation Survey Location Direction of the P	hoto	
Bare Ground Score (max 5)	4	Native Plant life form score (max 20)	12			
				136		
Vegetation Condition Score calculation				GPS Reference		
Positive Vegetation Attributes Score = Native species di				(Eastings and North	nings)	
understorey biomass + Tree health + Fallen timber/debris - If the community is naturally treeless this score is multiplied by 1		earing trees	56.00	Zone: 35 47' 29"		
Negative Vegetation Attributes Score = Weeds + Bare q			16.00			
VEGETATION CONDITION SCORE (Positive veg attribute		tive vegetation attributes + 60) / 80))	53.20			
Lo		Medium High	•			
	vv	Medialii High				
Native Plant Species Diversity						
Weed Score						
Native Plant Life Forms						
Regeneration						
Native:exotic Understorey Biomass						
Bare Ground						
Tree Health				Assessment for Olegranes		
Tree Hollows				Assessment for Clearance SEB Points required		1.68
				Loss Factor 1.0 Hectares required		0.21
Fallon March				· · · · · · · · · · · · · · · · · · ·		
Fallen timber				Loadings for clearance of protected areas Mean Annual rainfall for the site (mm)	£4.6	783
Fallen timber Vegetation Condition Score				· · · · · · · · · · · · · · · · · · ·		783 340.45 382.02