

Native Vegetation Clearance

Upper Yorke Road Kulpara to Arthurton MM 0.50 to MM 36.00

Data Report

Clearance under the Native Vegetation Regulations 2017

18 December 2023 Amendment 1 – Scope Reduction 28 February 2024 Prepared by JS Ayre & Associates



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1. Application information

Application Details

Applicant:	LWC/Department for Infrastructure and Transport					
Key contact:						
Landowner:	The Crown					
Site Address:	Upper Yorke Road, MM 0.50 to	Upper Yorke Road, MM 0.50 to 36.00 (Kulpara to Arthurton)				
Local Government	Barunga West Council	Hundred:	Kulpara, Clinton, Tiparra			
Area:	Yorke Peninsula Council					
Title ID:	N/A Road reserve	Parcel ID	N/A Road reserve			

Summary of proposed clearance

Purpose of clearance	Clearance required to accommodate the road upgrade including shoulder sealing, culvert extensions and safety barrier installation.				
Native Vegetation Regulation	Regulation 12, Schedule 1; clause 32, Works on behalf of Commissioner of Highways				
Description of the vegetation under application	<u>Size, type and general condition</u> – 0.205 ha of (VA1) <i>Eucalyptus porosa/E. brachycalyx w</i> oodland, in fair to good condition 0.04 ha of (VA2) <i>Callitris gracilis</i> woodland, in fair condition 0.7495 ha of (VA3) <i>Eucalyptus leptophylla/E. socialis</i> mallee woodland, in fair to good condition 0.1375 ha of (VA4) <i>E. gracilis, E. oleosa, E. leptophylla</i> mallee, fair-good condition				
Total proposed clearance - area (ha) and number of trees	1.1320 ha is likely to be impacted.				
Level of clearance	Level 4				
Overlay (Planning and Design Code)	Native Vegetation Overlay				
Map of proposed clearance area					

Map of proposed clearance area

	Map of proposed clearance area
Moonte	Naitland
Mitigation hierarchy	A significant scope review resulted in reduced impacts from 2.1565ha to 1.132ha
SEB Offset proposal	Payment of \$39,839.95

2. Purpose of clearance

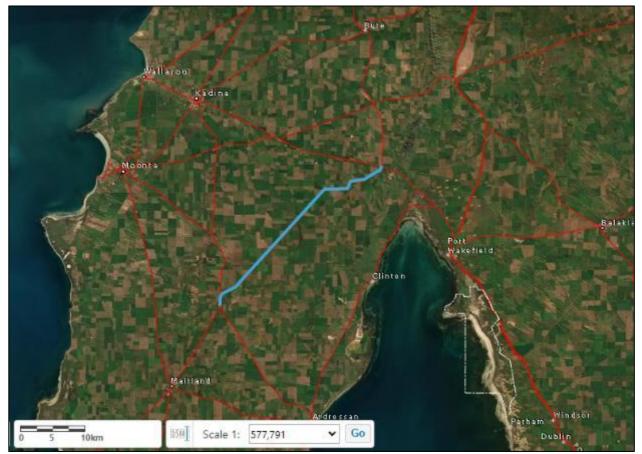
2.1 Description

Under the Government's Road Safety Program, the Upper Yorke Road from Kulpara to Arthurton is to be upgraded. Included in the scope of works is shoulder sealing; widening, reseal and rehabilitation of the carriageway at strategic locations; culvert extensions; safety barrier installation and sealing of side road aprons. Some of the works will impact vegetation within the road reserve.

2.2 Background

The road carries 140vpd and traverses agricultural land with grazing and cropping farms. The township of Kulpara lies at the northern end of the site, and Arthurton at the southern end. The carriageway and shoulder width is substandard, and the upgrade is required to meet current safety standards. Numerous local roads intersect, some with up to 7 roads converging, and there have been 4 road accidents since 2018.

Concurrent with this project is the Upper Yorke Road upgrade from Bute to Port Broughton, 23km north of this project, and which is the subject of a separate clearance application.



2.3 General location maps

Figure 1 Site map



Figure 2 Location map

2.4 Details of the proposal

The proposed works include culvert extensions in fifteen places (seven culverts both sides, one, RHS only); safety barrier and additional pavement widths around curve/drop-offs at nine locations; shoulder sealing, pavement rehabilitation and ATLM across the entire project site. Shoulder sealing will include boxing out up to 300mm depth and sealing to accommodate a 2m shoulder width. Safety barrier is required to reduce the hazard presented by a drop-off or non-frangible vegetation.

The project scope called for the assessment of:

- 12m total width for shoulder sealing at 6m from centreline (original scope called for 7m from centreline) impacts at numerous sites were noted
- 10m x 10m around culverts to be extended impact at thirteen sites
- 8m from centreline around curve/drop-offs to be widened or safety barrier installed (original scope called for 9m) impact at nine curves
- 30m length x 2m width either side of side roads for proposed aprons no impact

A general assessment of four potential stack sites was undertaken, with no impact at any site. These have since been excluded from the scope of works.

Several vegetation associations were present across the 35.5km site. Calculating overall impact for numerous curve, culvert and shoulder sealing impact sites over a wide range of associations presented challenges. In accordance with the NVC Bushland Assessment Manual, multiple sites were aggregated within similar vegetation types in order to simplify the resulting information for both the proponent and the Native Vegetation clearance assessment process.

The vegetation condition, extent and density varied across the linear sites; it was not practical to stop/start each time this occurred, and so the width of impact is averaged across the sites to take account of this, and of side roads, property accesses etc. In addition, while the scope requested assessment of impact for up to 6m from the centreline

(CL) on straight sections, and 8m on curves, this does not mean that the amount included in this assessment will be ultimately impacted, but it is considered the worst case scenario. Impacts are mainly to root zones. The assessment did not include the Maintenance Activity Zone (MAZ).

The following table identifies impact across the sites.

SITE #	MM'S	SIDE OF ROAD	IMPACT AREA M ²	VEG ASSN
Shoulder s	ealing		-	
1	5.35 - 5.75	RHS	440	VA3
2	5.5 – 5.7	LHS	150	VA3
3	6.2 -6.3	LHS	50	VA1
4	6.3 -6.65, 6.8 - 7.2	RHS	450	VA1
5	6.7 -7.2	LHS	300	VA1
6	7.4 – 7.55	LHS	300	VA2
7	7.4 – 7.55	RHS	100	VA2
8	7.55 – 7.8	LHS	100	VA3
9	7.55 – 7.8	RHS	0	VA3
10	8.0 - 8.9	LHS	675	VA4
11	8.0 - 8.9	RHS	350	VA4
12	10.15 – 10.22	LHS	350	VA3
13	10.89 – 10.95	LHS	0	VA3
14	11.25 – 11.26	RHS	0	VA1
15	11.35 – 11.65	RHS	150	VA3
16	11.5 – 11.7	LHS	50	VA3
17	11.35 – 12.80	LHS	0	VA3
18	12.4 – 12.7	RHS	150	VA3
19	13.2 – 13.9	RHS	175	VA3
20	13.25 – 13.3	LHS	0	VA3
21	14.3 – 14.9	RHS	150	VA3
22	15.9 – 16.55	RHS	250	VA4
23	16.8 – 19.8	LHS	100	VA4
24	16.8 – 19.9	RHS	50	VA3
25	20.05 - 20.3	LHS	75	VA3
26	20.05 - 20.3	RHS	75	VA3
27	20.755 – 20.8	RHS	0	VA3
28	21.05 – 22.0	LHS	550	VA3
29	21.05 – 22.0	RHS	550	VA3
30	22.15 – 23.45	LHS	100	VA3
31	22.15 – 23.45	RHS	100	VA3
32	23.7 – 28.0	LHS	100	VA3
33	23.7 – 28.0	RHS	100	VA3
34	29.3 – 32.1	LHS	700	VA3
35	29.3 - 32.0	RHS	700	VA3
36	32.1 – 33.0	LHS	225	VA3
37	32.3 - 33.0	RHS	400	VA3
38	33.2 - 34.2	LHS	175	VA3
39	33.2 – 34.2	RHS	175	VA3
	TOTAL SHOULDER SEALING	IMPACT	8365 m ²	

SITE #	MM's	SIDE OF ROAD	IMPACT AREA M ²	VEG ASSN
Culverts	·			
А	10.085	RHS	0	N/A
В	25.381	LHS	80	VA3
С	25.381	RHS	100	VA3
D	26.892	LHS	100	VA3
E	26.892	RHS	100	VA3
F	28.805	LHS	20	VA3
G	28.805	RHS	100	VA3
Н	30.860	LHS	20	VA3
	30.860	RHS	100	VA3
J	31.265	LHS	100	VA3
K	31.265	RHS	20	VA3
L	33.680	LHS	10	VA3
М	33.680	RHS	0	N/A
Ν	34.941	LHS	25	VA3
0	34.941	RHS	5	VA3
	TOTAL CULVERT IMPACT	ſ	780 m ²	
Curves/dro	p offs/safety barrier			
1	5.70 – 5.90	RHS	50	VA3
2	6.270 - 6.480	RHS	100	VA1
3	7.00 – 7.330	LHS	450	VA1
4	10.856 – 10.984	RHS	175	VA3
5	11.240 - 11.600	LHS	700	VA1
6	12.050 - 12.270	RHS	50	VA3
7	12.650 – 12.820	LHS	250	VA3
8	32.265 - 32.418	LHS	150	VA3
9	34.208 - 34.445	RHS	250	VA3
TOTA	L CURVES/SROP OFFS/SAFETY BA	ARRIER IMPACT	2175 m ²	
Side road a	prons			
-	No impact at any side road aprons	-	_	_
Stack sites				
-	No impact at any stack sites	-	-	-

2.5 Approvals required or obtained

Provide details of the following approvals or applications under the follow legislation, where relevant:

- Native Vegetation Act 1991 this report is in part fulfillment of the requirements of this Act
- Planning, Development and Infrastructure Act 2016 N/A
- Environment Protection and Biodiversity Conservation Act 1999 (impacts on MNES) N/A
- National Parks and Wildlife Act 1972 (e.g. flora collection permit) N/A
- Landscapes SA Act 2019 (e.g. water affecting activity permit) N/A
- Aboriginal Heritage Act 1988 N/A

2.6 Native Vegetation Regulation

Regulation 12, Schedule 1; clause 32, Works on behalf of Commissioner of Highways.

3. Method

3.1 Flora assessment

A site assessment was undertaken on 6-7 December 2023 by Jackie Ayre of JS Ayre & Associates. The scope of works was outlined by the client prior to the field survey and informed by research using NatureMaps and Google Earth street view. The survey involved a general assessment of vegetation on the site, including identification of possible habitat for species of conservation significance.

An online search was undertaken for Environment Protection and Biodiversity Conservation (EPBC) Act "Matters of Environmental Significance" and an interrogation of the Atlas of Living Australia (AoLA) and the BDBSA databases was completed as background to the field assessment. Seven threatened plant species were recorded within 5km since 1995. None were found on site nor are likely to be present.

3.2 Fauna assessment

A review of databases including the EPBC Act "Matters of Environmental Significance", AoLA and BDBSA was undertaken prior to the site visit to establish fauna species known, or considered likely, to occur at the site. All observations, calls and evidence of presence were recorded as field notes. Bird species were recorded when heard calling, or when observed within, adjacent to, or flying over the site. Evidence of fauna species presence was searched for and recorded when observed. If hollows were found, closer inspection with binoculars was undertaken.

Three listed species were recorded within the search criteria, but none were observed during the survey.

See Part 4.2 and Appendix 1 for further details.

4. Assessment Outcomes

4.1 Vegetation Assessment

General description of the vegetation, the site and matters of significance

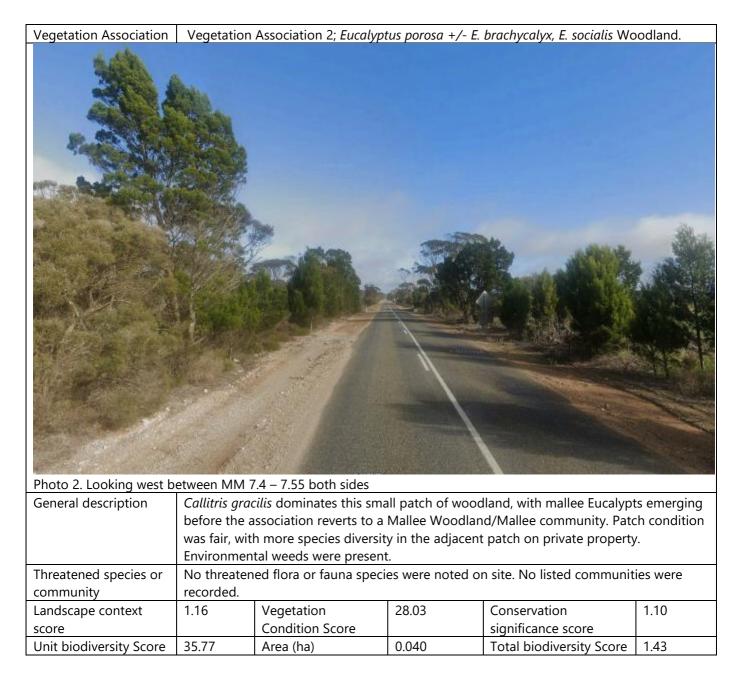
- Landform, geography and soils
 - Described as rises and plains with mainly calcareous soils in the northeast transitioning to loamy texture contrast or gradational soils in the southwest. These soils are formed on calcrete, soft rubbly calcareous sediments and unconsolidated sediments/deeply weathered rock.
- Landform feature of significance (rivers, creeks, rocky outcrops, etc.) There are no streams featured within the project site, nor other significant landscape features.
- General overview of the vegetation under application as a whole The site contains remnants of Eucalyptus Woodland and Mallee; and Callitris Woodland associations . Five vegetation associations were noted See Scoresheets for details.
- General description of the vegetation relating to type and condition The vegetation across all associations ranges from fair to good condition, depending on (largely) the distance from the road edge and nature of adjacent land. All were disturbed by weed infiltration, including Bridal Creeper, Aleppo Pine and the odd Boxthorn.
- Description of the landscape context for the vegetation The vegetation is largely confined to road reserves across the landscape, with historic clearance being significant and only a few small to medium sized patches persisting outside of road reserves. There are no NPWS reserves or Heritage Agreements within 5 km.

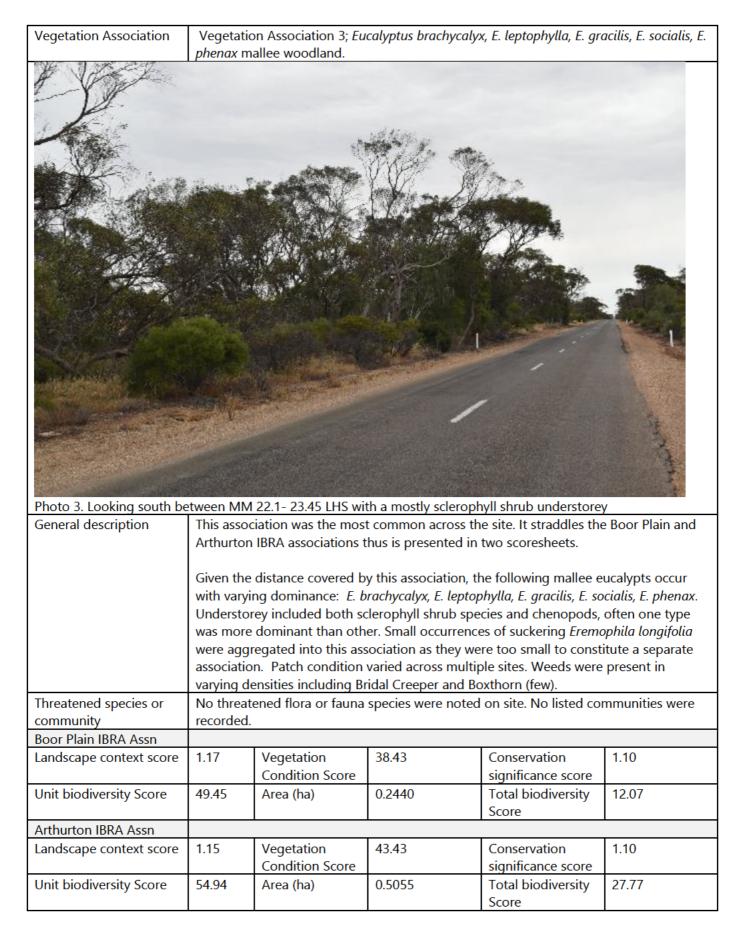
Details of the vegetation associations proposed to be impacted

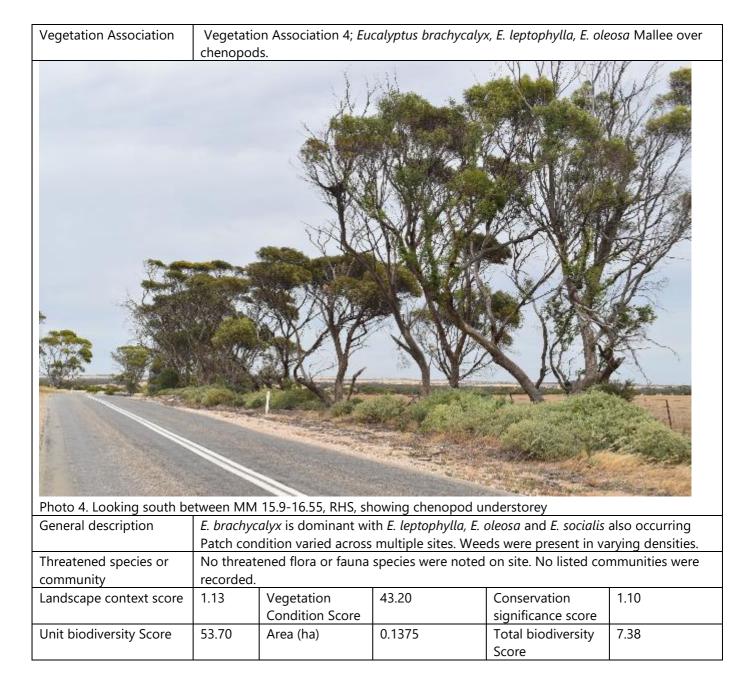
 Vegetation Association
 Vegetation Association 1; Eucalyptus porosa +/- E. brachycalyx, E. socialis Woodland.

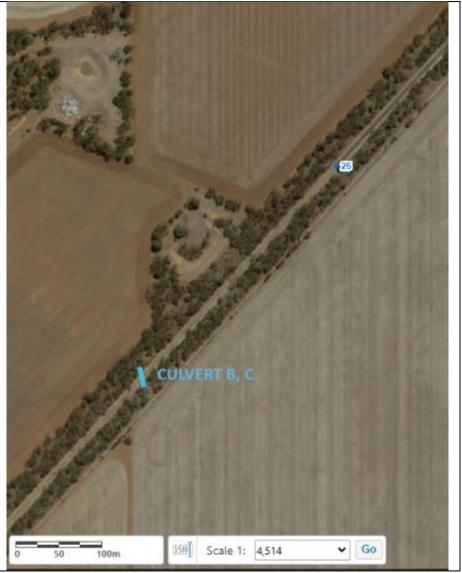


General description	Dominance is shared by <i>E. porosa</i> and mallee species including (more or less equally) <i>E. brachycalyx, E. leptophylla, E. gracilis</i> and <i>E. socialis</i> . Patch condition varied across multiple sites - the photograph shows one of the better condition sites adjacent a small patch of remnant vegetation on private property. Weeds were present in varying densities.						
Threatened species or community	No threatened flora or fauna species were noted on site. No listed communities were recorded.						
Landscape context score	1.14Vegetation Condition Score43.20Conservation significance score1.10						
Unit biodiversity Score	54.17	Area (ha)	0.205	Total biodiversity Score	11.11		









Site maps showing areas of proposed impact – culverts and curves

Figure 3 Culvert extension sites B, C



Figure 4 Culvert extension sites D, E

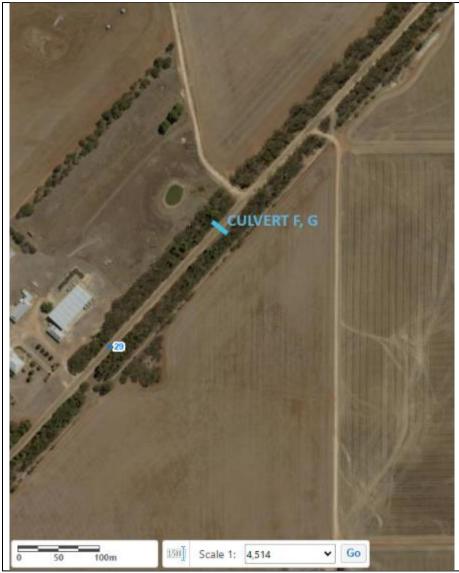


Figure 5 Culvert extension sites F, G

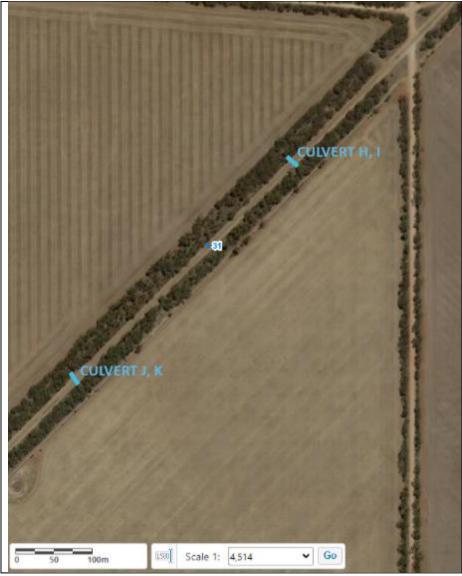


Figure 6 Culvert extension sites H, I and J, K

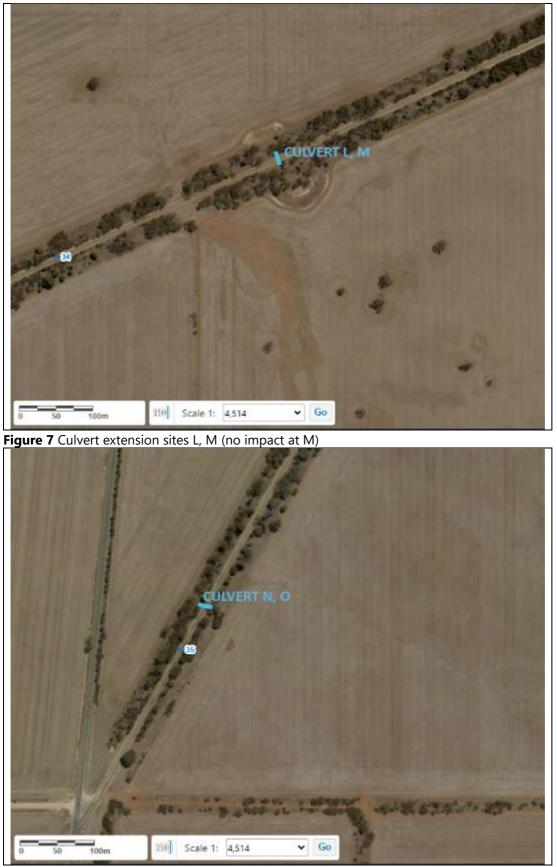


Figure 8 Culvert extension sites N, O



Figure 9 Curve/drop-off 1 and 2

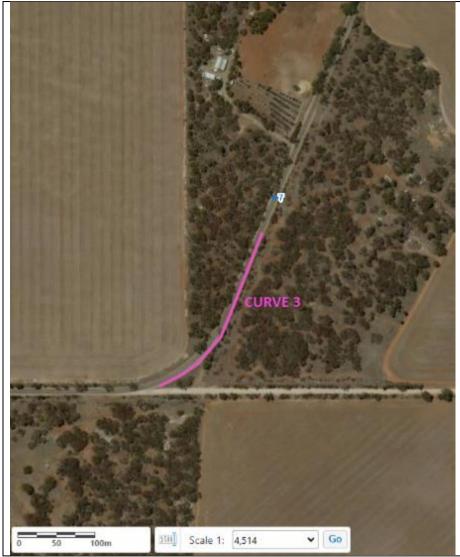


Figure 10 Curve/drop-off 3



Figure 11 Curve/drop-off 4 and 5

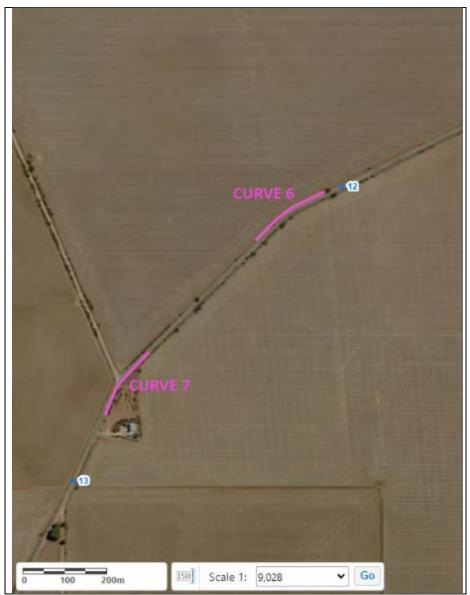


Figure 12 Curve/drop-off 6 and 7



Figure 13 Curve/drop-off 8 and 9



Site maps showing areas of proposed impact - shoulder sealing

Figure 14 Shoulder sealing sites 1 and 2



Figure 15 Shoulder sealing site 3



Figure 16 Shoulder sealing sites 4 and 5



Figure 17 Shoulder sealing sites 6, 7, 8 and 9 (no impact at 9)



Figure 18 Shoulder sealing sites 10 and 11



Figure 19 Shoulder sealing site 12



Figure 20 Shoulder sealing sites 13 and 14 (no impact at these sites)



Figure 21 Shoulder sealing sites 15 and 16

	55 18	55.1	7	
100m	IEE Scale 1:	4,514	 Go 	

Figure 22 Shoulder sealing sites 17 (no impact) and 18



Figure 23 Shoulder sealing sites 19 and 20



Figure 24 Shoulder sealing site 21



Figure 25 Shoulder sealing site 22



Figure 26 Shoulder sealing sites 23 and 24



Figure 27 Shoulder sealing sites 25, 26, 27 (no impact), 28 and 29



Figure 28 Shoulder sealing sites 30 and 31



Figure 29 Shoulder sealing sites 32 and 33

Moloney Rd	SS 34	SS 35	1
	Pallsrightment.	-	
0 0.2 0.4km	1500 Scale 1: 18	,056 v Go	- Homer

Figure 30 Shoulder sealing sites 34 and 35



Figure 31 Shoulder sealing sites 36, 37, 38 and 39

4.2 Threatened Species assessment

<u>Flora</u>

The searches identified 7 threatened flora species within the search criteria. None were observed on site on site nor are likely to occur given the given the lack of diversity across the area of impact.

<u>Fauna</u>

Database searches identified 3 threatened species recorded within 5km of the proposed impact site since 1995 (excluding pelagic, marine or aquatic dependent species). The total includes (EPBC Act) VU – 1; EN – 2. See Appendix 1 for the full list of threatened species recorded.

The likelihood of the listed fauna finding habitat at the site is as follows:

Likelihood of Occurrence	No. of Species
Highly likely/known	0
Likely	1
Possible	1
Unlikely	1

Species observed on site, or recorded within 5km of the application area since 1995, or the vegetation is considered to provide suitable habitat

Species (common name)	NP&W	EPBC	Data	Date	Species known	Likelihood of use
	Act	Act	source	of last	habitat preferences	for habitat –
				record		Comments
Falco hypoleucos Grey Falcon	-	VU	5	-	Shrubland, grassland and wooded watercourses	Possible. No watercourses in the vicinity but suitable hunting habitat available. No records on Naturemaps in the vicinity of the site but listed in the PMST search tool
Melanodryas cucullata cucullata SE Hooded Robin	EN		5	-	Prefers open eucalypt woodlands, acacia scrub and mallee, with tall native grasses, often near clearings or open areas	Likely – suitable habitat exists on and around the site
Tiliqua adelaidensis Pygmy Blue-tongue	EN		5	-	Found in a variety of habitats, from highly degraded grasslands dominated by exotics to grasslands with high biodiversity. Vegetation cover ranges from moderate to sparse or light	Unlikely - nearest record is over 9km from the site in 2004

NP&W Act; E= Endangered, V = Vulnerable, R= Rare

EPBC Act; Ex = Extinct, CR = Critically endangered, EN = Endangered; VU = Vulnerable

Likelihood	Criteria
Highly	Recorded in the last 10 years, the species does not have highly specific niche requirements, the habitat is
Likely/Known	present and falls within the known range of the species distribution or;
	The species was recorded as part of field surveys.
Likely	Recorded within the previous 20 years, the area falls within the known distribution of the species and the area
	provides habitat or feeding resources for the species.
Possible	Recorded within the previous 20 years, the area falls inside the known distribution of the species, but the area
	provide limited habitat or feeding resources for the species.
	Recorded within 20 -40 years, survey effort is considered adequate, habitat and feeding resources present,
	and species of similar habitat needs have been recorded in the area.
Unlikely	Recorded within the previous 20 years, but the area provide no habitat or feeding resources for the species,
	including perching, roosting or nesting opportunities, corridor for movement or shelter.
	Recorded within 20 -40 years; however, suitable habitat does not occur, and species of similar habitat
	requirements have not been recorded in the area.
	No records despite adequate survey effort.

Criteria for the likelihood of occurrence of species within the Study area.

4.3 Cumulative impact

When exercising a power or making a decision under Division 5 of the Native Vegetation Regulations 2017, the NVC must consider the potential cumulative impact, both direct and indirect, that is reasonably likely to result from a proposed clearance activity.

The cumulative impacts must consider all the clearance that is likely to result from the application, including the following;

- clearance directly required for the development (e.g. access, building footprints, associated infrastructure power and water, etc.): all associated clearance including shoulder sealing, curve/drop-off widening or guard rail, culvert extension and side road apron impact, plus the CAZ has been included in the impact tally. The MAZ is not included in the impact assessment.
- subsequent clearance that will be permitted or required (e.g. 10m around a building, 20m around a dwelling, clearance for fire protection): not applicable it this case, no buildings or fences are proposed.
- indirect clearance that may occur as a result of the development (e.g. dust generation smoothing vegetation, altered hydrology inundating or drying vegetation, impacting on tree root zones (the application of fill) impacting on tree health): all associated and indirect impacts have been included in the tally.
- future stages or associated components of a development (noting, the clearance for future stages of a development does not need to be assessed as part of this application, only discussed to provide the NVC with the full context of the proposed clearance): There are no future stages proposed, however another upgrade on the Upper Yorke Road north of this site (Bute to Port Broughton) has been assessed separately.

4.4 Address the Mitigation Hierarchy

When exercising a power or making a decision under Division 5 of the Native Vegetation Regulations 2017, the NVC must have regard to the mitigation hierarchy. The NVC will also consider, with the aim to minimize, impacts on biological diversity, soil, water and other natural resources, threatened species or ecological communities under the EPBC Act or listed species under the NP&W Act.

a) Avoidance – outline measures taken to avoid clearance of native vegetation

- There are no options to relocate the project. The project scope has been reviewed in light of the impact. Stack site locations have been removed from the scope, and a review of the required distance from CL for shoulder sealing and curves has resulted in a reduction of impacts from 2.1565ha to 1.132ha.
- b) Minimization if clearance cannot be avoided, outline measures taken to minimize the extent, duration and intensity of impacts of the clearance on biodiversity to the fullest possible extent (whether the impact is direct, indirect or cumulative).

A review of the scale of works has significantly reduced impacts and these have been incorporated into this data report.

- c) Rehabilitation or restoration outline measures taken to rehabilitate ecosystems that have been degraded, and to restore ecosystems that have been degraded, or destroyed by the impact of clearance that cannot be avoided or further minimized, such as allowing for the re-establishment of the vegetation. Rehabilitation is not feasible at the site the offset payment will be made to compensate for the loss of biodiversity.
- d) Offset any adverse impact on native vegetation that cannot be avoided or further minimized should be offset by the achievement of a significant environmental benefit that outweighs that impact. The full SEB offset required will be met via payment into the NV fund.

4.5 Principles of Clearance (Schedule 1, *Native Vegetation Act* 1991)

The Native Vegetation Council will consider Principles 1(b), 1(c) and 1(d) when assigning a level of Risk under Regulation 16 of the Native Vegetation Regulations. The Native Vegetation Council will consider all the Principles of clearance of the Act as relevant, when considering an application referred under the *Planning, Development and Infrastructure Act 2016*.

Principle of	Relevant information	Assessment against	Moderating factors that may
clearance		the principles	be considered by the NVC
Principle 1b - significance as a habitat for wildlife	No threatened species were noted, and one (Hooded Robin) is considered likely to find suitable habitat amongst the vegetation assessed. Patches; Threatened Fauna Score – 0.1 (all VA's)	Seriously at Variance all Vegetation Associations <u>At Variance</u> – N/A	Impact Significance – impact is confined to the narrow strip of vegetation on the edge of remnant patches and is mostly to root systems. The works is unlikely to negatively affect the long term viability of threatened species populations.
	UBS (total) 248.03 TBS (total) 59.76		
Principle 1c - plants of a rare,	No listed flora were observed – there is potential for more cryptic plant species to be present in the better	Seriously at Variance N/A	Impact significance - the project is unlikely to impact the threatened species, individuals
vulnerable or endangered	patches and in spring, but if present are unlikely to be impacted by the	<u>At Variance</u> – N/A	of which are located outside the works footprint.
species	narrow band of works on the edge of the road shoulder.		

	Threatened Flora Score(s) All VA's - 0		
Principle 1d - vegetation of a that is Rare, Vulnerable or Endangered plant community	No threatened communities under the EPBC Act or threatened ecosystems under the DEW Provisional list of threatened ecosystems were observed on site. Threatened Community Score 1 (all)	<u>Seriously at Variance</u> N/A	

4.6 Risk Assessment

Determine the level of risk associated with the application

Total	No. of trees	N/A		
clearance	Area (ha)	1.1320		
	Total biodiversity Score	59.76		
Seriously at va	ariance with principle	1(b)		
1(b), 1(c) or 1	(d)			
Risk assessme	nt outcome	Level 4		

5. Clearance summary

Clearance Area(s) Summary table

Block	Site	Species diversity score	Threatened Ecological community Score	Threatened plant score	Threatened fauna score	UBS	Area (ha)	Total Biodiversity score	Loss factor	Loadings	Reductions	SEB Points required	SEB payment	Admin Fee
VA1	Aggr.	21	1	0	0.1	54.17	0.205	11.11	1			11.66	6,787.40	373.31
VA2	Aggr.	12	1	0	0.1	35.77	0.040	1.43	1			1.50	838.55	46.12
VA3	Aggr.	28	1	0	0.1	49.45	0.244	12.07	1			12.67	7,563.90	416.01
VA3	Aggr.	28	1	0	0.1	54.94	0.5055	27.77	1			29.16	18,106.82	995.88
VA4	Aggr.	21	1	0	0.1	53.70	0.1375	7.38	1			7.75	4,466.31	245.65
					Total	1.132	59.76				62.74	\$37,762.98	\$2,076.97	

Totals summary table

		TotalTotal SEBBiodiversitypointsscorerequired		SEB Payment	Admin Fee	Total Payment	
Appli	ication	59.76	<mark>62.74</mark>	\$37,762.98	\$2,076.97	\$39,839.95	

Economies of Scale Factor	0.5
Rainfall (mm, averaged)	393

6. Significant Environmental Benefit

A Significant Environmental Benefit (SEB) is required for approval to clear under Division 5 of the *Native Vegetation Regulations 2017*. The NVC must be satisfied that as a result of the loss of vegetation from the clearance that an SEB will result in a positive impact on the environment that is over and above the negative impact of the clearance.

ACHIEVING AN SEB

Indicate how the SEB will be achieved by ticking the appropriate box and providing the associated information:

Pay into the Native Vegetation Fund.

PAYMENT SEB

If a proponent proposes to achieve the SEB by paying into the Native Vegetation Fund, summary information must be provided on the amount required to be paid and the manner of payment:

Payment amount required (including admin. fee) <u>\$39,839.95</u>

7. Appendices

Appendix 1. Flora and Fauna Species List

			NATIONAL	STATE	DATE OF LAST
FAMILY NAME	SPECIES	COMMON NAME	RATING	RATING	RECORD
ASPARAGACEAE	Thysanotus tenellus	Grassy Fringe-lily		R	10-Sep-2004
ASTERACEAE	Olearia pannosa ssp. pannosa	Silver Daisy-bush	VU	V	25-Mar-2009
ASTERACEAE	Podolepis decipiens			R*	16-Dec-2003
ORCHIDACEAE	Caladenia brumalis	Winter Spider-orchid	VU		PMST
ORCHIDACEAE	Caladenia tensa	Greencomb Spider-orchid	EN		PMST
POACEAE	Austrostipa multispiculis	Many-flowered Spear-grass		R	19-Nov-2018
POACEAE	Bothriochloa macra	Red-leg Grass		R	26-Jan-1998

					DATE OF
CLASS			NATIONAL	STATE	LAST
NAME	SPECIES	COMMON NAME	RATING	RATING	RECORD
AVES	Falco hypoleucos	Grey Falcon	VU		PMST
	Melanodryas cucullata				
AVES	cucullata	SE Hooded Robin	EN		PMST
REPTILIA	Tiliqua adelaidensis	Pygmy Blue-tongue	EN		PMST

Note: the above tables are combined data from BDBSA and EPBC PMST search results. Buffer is 5km.

Listed Threate	ened Species			[<u>Re</u>			
Species ID	Scientific Name	Common Name	Class	Simple Presence	Presence Text	Threatened Category	Buffer Status
1270	Tiliqua adelaidensis	Pygmy Blue-tongue	Reptile	Known	Species or species	Endangered	In feature area
67093	Melanodryas cucullata	South-eastern Hooded	Bird	Known	Species or species	Endangered	In feature area
24390	Caladenia tensa	Greencomb Spider-	Plant	Known	Species or species	Endangered	In feature area
12348	Olearia pannosa	Silver Daisy-bush,	Plant	Known	Species or species	Vulnerable	In feature area
929	Falco hypoleucos	Grey Falcon	Bird	Known	Species or species	Vulnerable	In feature area
54993	Caladenia brumalis	Winter Spider-orchid	Plant	Known	Species or species	Vulnerable	In feature area

PMST search results snipped from excel report

Appendix 2. Bushland Scoresheets

Bushland Scoresheet VA1

Vegetation Condition Scores				Conservation Significance Score				
SITE:	VA1 SS	Sites 3,4,5; Curves 2,3,5 aggregated		is the vegetation association considered a Threatened Ecological community or Ecosystem?				
VEGETATION ASSOCIATION DESCRIPTION		porosa +/- E. brachycalyx, E. socialis Woodland over sl	hrubs	State (Provisional List of Threatened Ecosystems of SA) Rare community (0.1 pt)				
SIZE OF SITE (Ha)	0.205			State (Provisional List of Threatened Ecosystems of SA) Vulnerable community (0.2 pts)				
	0.200			State (Provisional List of Threatened Ecosystems of SA) Endangered community (0.3 pts)				
Native Plant species diversity		Regeneration		Nationally (EPBC Act) Vulnerable community (0.35 pts)				
Score the diversity of species present in the site as a pro	portion	No regeneration present (0 Points)		Contains a Nationally (EPBC Act) Endangered or Critically Endangered community (0.4 pts)				
to what would be expected in a vegetation of that commu				Note; all sites will score a minimum Conservation Significance Score of 1 Threatened CommunityScore				
very good condition (approaching a pre-European state)		Very low regeneration, consisting of highly scattered juvenile plants of a limited number of species (3		Note, an sites will score a minimum Conservation Significance Score of 1				
<5% (3 Points)		points)		Number of Threatened Flora Species recorded for the site (within the site)	Number			
5-10% (6 Points)		Regeneration present, consisting of multiple		1f 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)		ndividual juvinile plants but a limited number of		State Rare species recorded (1 pt each)	(
21 - 30% (12 Points)		species (6 points)		State Vulnerable species recorded (2.5 pt each)	(
31 - 40 % (15 Points)		Multiple species regenerating, but low numbers of		State Endangered recorded (5 pts each)				
41 - 50% (18 Points)		juvenile plants (9 points)		Nationally Vulnerable species recorded (10 pts each)				
51 - 60% (21 Points)		Multiple species regenerating with multiple individual		Nationally Endangered or Critically endangered species recorded (20 pts each)				
61 - 70% (24 Points)		juviniles present with varying age classes (12 points)		0 = 0 pts; <2 = 0.04 pts; 2 - <5 = 0.08 pts; 5 - <10 = 0.12 pts; 10 - <20 = 0.16 pts; 20 or > = 0.2 pts				
71 - 80% (27 Points)	- H-	Regeneration Score (Max 12)	6	Threatened Flora Score				
>80% (30 Points)	H H	regeneration of the tay		Threatened Tiola Score				
Native Plant species diversity score (max score of 30)	21	Native Plant life form		Potential habitat for Threatened Fauna Species (number observed or previously recorded)	Number			
,		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)	(
Does the site contain plant species declared under the	2	points)		State Vulnerable species observed or locally recorded (2.5 pt each)	(
NRM Act 2004 (1.5 points)		All strata of vegetation impacted with limited		State Endangered species observed or locally recorded (5 pt each)	(
Cover rating for all declared weeds (max of 6)	1	structural diversity, largely uniform age classes and		Nationally Vulnerable species observed or locally recorded (10 pts each)				
Does the site contain environmental weeds (introduced		reduced vegetation cover (8 points)		Nationally Endangered or Critically endangered species observed or locally recorded (20 pts each)	1			
plants with the capacity to invade and exclude native		At least one strata of vegetation has been		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	5			
species from bushland. This typically includes species		impacted, with reduced structural diversity, elements may be missing (such as plant species that provide specific structural features e.g. sedges or mid layer		Threatened Fauna Score	0.1			
with a BCM weed threat rating of 3, 4 or 5). (1 Point)								
				CONSERVATION SIGNIFICANCE SCORE	1.1			
Cover rating for all environmental weeds (max of 6)	2	shrubs) and reduce vegetation cover (12 points)	<u> </u>					
Weed Score (max score of 15)	11.5	Limited impacts on native vegetation, with a diversity		Total Secret for the Site Vegetation Condition x Landscape Con	tend u			
		of structural features and a varied age class, with			ICAL X			
Is the community naturally treeless?		only a minor loss in structurally diversity, vegetation		Score Conservation Significance = LANDSCAPE CONTEXT SCORE 1.14 UNIT BIODIVERSITY SCORE	54.4			
Mature Tree Score (max 8)	4	cover or structural elements (16 points)	<u> </u>		54.17			
Fallen timber/debris (max 5) Hollow-bearing trees Score (max 5)	3	All strata of vegetation present, little or no sign of						
		disturbance. A variety of life forms and associated		CONSERVATION SIGNIFICANCE SCORE 1.10 (Biodiversity Score x hectares)	11.11			
Tree Canopy Cover Score (max 5)	3	age classes present. Vegetation cover near complete (20 points)		Photo Point and Vegetation Survey Location Direction of the Phot	0			
Native:exotic Understorey biomass score (max 5)	4	Native Plant life form score (max 20)	12		-			
				South				
Vegetation Condition Score calculation				GPS Reference				
Positive Vegetation Attributes Score = Native species	diversity	+ Regeneration + Native Plant Life Forms + Mature Tree	es +	Datum	WGS84			
Fallen timber/debris + Hollow-bearing trees		-		Zone (52, 53 or 54)				
If the community is naturally treeless this score is multiplied			48.00	Easting (6 digits)				
Negative Vegetation Attributes Score = (15 - Weeds) + ((8.00	Northing (7 digits)	6223860			
VEGETATION CONDITION SCORE (Positive veg attribute	es x ((Ne	gative vegetation attributes + 60) / 80))	43.20	Description				
Low		Medium High		E.porosa woodland over	er shrubs and			
Native Plant Species Diversity				chenopods				
Weed Score								
Native Plant Life Forms								
Regeneration								
Native:exotic Understorey Biomass								
Tree Canopy Cover Score								
Mature Tree Score				Assessment for Clearance Approximate hectares required	1.4			
Tree Hollows				Loss Factor 1.0 Economies of Scale factor	0.5			
				Loadings for clearance of protected areas Mean Annual rainfall for the site (mm)	39			
Fallen timber				Reductions for rehabilitation of impact site Payment into the fund (GST Exclusive)	\$6,787.4			
Vegetation Condition Score				SEB Points required 11.66 Administration fee (GST Inclusive)	\$373.3			
					4010.0			

Bushland Scoresheet VA2

Vegetation Condition Scores			Conservation Significance Score							
SITE:	VA 2 YF	3.3 Aggregated SS sites 6, 7		is the vegetation association considered a Threats	aned Ecological	community or Ecosyst	em?	Yes/No		
VEGETATION ASSOCIATION DESCRIPTION	VA2 Cal	litris gracilis Woodland		State (Provisional List of Threatened Ecosystems of SA) Rare community (0.1 pt)						
SIZE OF SITE (Ha)	0.04			State (Provisional List of Threatened Ecosystems of SA) Vulnerable community (0.2 pts)						
				State (Provisional List of Threatened Ecosystems of SA) Endangered community (0.3 pts)						
Native Plant species diversity		Regeneration		Nationally (EPBC Act) Vulnerable community (0.35 pts)						
Score the diversity of species present in the site as a pr		No regeneration present (0 Points)		Contains a Nationally (EPBC Act) Endangered of	or Critically En	dangered community	y (0.4 pts)			
to what would be expected in a vegetation of that comm	unity in	Very low regeneration, consisting of highly scattered		Note; all sites will score a minimum Conservation Si	gnificance Score	of 1 Threater	ned CommuntiyScore	1		
very good condition (approaching a pre-European state)		juvenile plants of a limited number of species (3								
<5% (3 Points)		points)		Number of Threatened Flora Species recorde				Number		
5-10% (6 Points)		Regeneration present, consisting of multiple	-	*If a species has both a State (NP&W Act) and I	National (EPBC	Act) rating, it's only re	ecorded for its National	ating.		
11 - 20% (9 Points)		individual juvinile plants but a limited number of species (8 points)		State Rare species recorded (1 pt each)				0		
21 - 30% (12 Points)	2	species (o 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				0		
51 - 60% (21 Points)		Multiple species regenerating with multiple individual juviniles present with varying age classes (12 points)		Nationally Endangered or Critically endangere				0		
61 - 70% (24 Points)				0 = 0 pts; <2 = 0.04 pts; 2 - <5 =	0.08 pts; 5 - <10			0		
71 - 80% (27 Points) >80% (30 Points)		Regeneration Score (Max 12)				Ih	reatened Flora Score			
Native Plant species diversity score (max score of 30		Native Plant life form		Potential habitat for Threatened Fauna Spec	ies (number of	served or previous	v recorded)	Number		
naure riant species arrenary soore (max soore or or		All strata of vegetation heavily impacted and native		*If a species has both a State (NP&W Act) and I						
Weed Scores		vegetation represented by only scattered plants (4		State Rare species observed or locally recorded				- 0		
Does the site contain plant species declared under the		points)	1.11	State Vulnerable species observed or locally rec		ach)		0		
NRM Act 2004 (1.5 points)		All strata of vegetation impacted with limited	1.00	State Endangered species observed or locally re	ecorded (5 pt e	ach)		0		
Cover rating for all declared weeds (max of 6)		structural diversity, largely uniform age classes and		Nationally Vulnerable species observed or local				1		
Does the site contain environmental weeds (introduced		reduced vegetation cover (8 points)		Nationally Endangered or Critically endangere				2		
plants with the capacity to invade and exclude native		At least one strata of vegetation has been		0 = 0 pts; <2 = 0.02 pts; 2 - <5 =	0.04 pts; 5 - <10	- 0.06 pts; 10 - <20 - 0	0.08pts; 20 or > = 0.1 pts	50		
species from bushland. This typically includes species		impacted, with reduced structural diversity, elements				Thre	eatened Fauna Score	0.1		
with a BCM weed threat rating of 3, 4 or 5). (1 Point)		may be missing (such as plant species that provide specific structural features e.g. sedges or mid layer		CONSERVATION SIGNIFICANCE SCORE						
Cover rating for all environmental weeds (max of 6)	3	shrubs) and reduce vegetation cover (12 points)		CONSERVATION SIGNIFICANCE SCORE				1.1		
Weed Score (max score of 15)	12									
		Limited impacts on native vegetation, with a diversity of structural features and a varied age class, with		Total Scores for the Site Vegetation Condition x Landscape C						
Is the community naturally treeless?	only a minor loss in structurally diversity, vegetation		the community naturally treeless?			Total Scoles for the Site	Score	Conservation Sign	nificance =	
Mature Tree Score (max 8)	2	cover or structural elements (16 points)		LANDSCAPE CONTEXT SCORE	1.16	UNIT BIODIVER	SITY SCORE	35.77		
Fallen timber/debris (max 5)	0.5	All strata of vegetation present, little or no sign of		VEGETATION CONDITION SCORE	28.03	Total Biodiversi	ty Score			
Hollow-bearing trees Score (max 5)	0	disturbance. A variety of life forms and associated		CONSERVATION SIGNIFICANCE SCORE	1.10	(Biodiversity So	core x hectares)	1.43		
Tree Canopy Cover Score (max 5)	3	age classes present. Vegetation cover near	_							
		complete (20 points)		Photo Point and Vegetation Survey Location			Direction of the Phot	to		
Native:exotic Understorey biomass score (max 5)	3	Native Plant life form score (max 20)	12	144			West			
Vegetation Condition Score calculation							GPS Reference			
Positive Vegetation Attributes Score = Native specie	s diversity	+ Regeneration + Native Plant Life Forms + Mature Tre	05 A					WGS84		
Fallen timber/debris + Hollow-bearing trees	s and ship	Thegeneration That is that eler on 5 That are no					Zone (52, 53 or 54)			
If the community is naturally treeless this score is multiplied	1 by 1.24		32.50				Easting (6 digits)			
Negative Vegetation Attributes Score = (15 - Weeds) +			11.00			aller.	Northing (7 digits)	6223393		
VEGETATION CONDITION SCORE (Positive veg attribu	ites x ((Ne	gative vegetation attributes + 60) / 80))	28.03		10	1	Description			
Lo	w	Medium High			1. 1.	10 P + 44 P	C. gracilis woodland o	ver sparse		
Native Plant Species Diversity					LA ANDA L		shrubs			
Weed Score				States and the second second		Sec. 2 and a				
Native Plant Life Forms					-	and the state				
Regeneration						and the second s				
Native:exotic Understorey Biomass						Cont and				
Tree Canopy Cover Score					and the second sec	100				
Mature Tree Score				Assessment for Clearance						
Tree Hollows					1.0	Approximate hect		0.19		
				Loss Factor Loadings for clearance of protected areas	1.0	Economies of Sca Mean Annual rain	le factor fall for the site (mm)	0.50		
Fallen timber				Reductions for rehabilitation of impact site			fund (GST Exclusive)	\$838,55		
Vegetation Condition Score				SEB Points required	1.50	Administration fee		\$46.12		

Bushland Scoresheet VA3 Boor Plain IBRA

Vegetation Condition Scores				Conservation Significance Score						
SITE:	VA 3 Aggregated	d shidr seal, curve ar	d culvert sites		Is the vegetation association considered a Threatened Ecological community or Ecosystem?	Yes/No				
BCM COMMUNITY	YP 4 Mallee wi	th a Sclerophyll Shru	b Understorey with Br	oombush	State (Provisional List of Threatened Ecosystems of SA) Rare community (0.1 pt)					
	and/or Mallee Ho	oney myrtle			State (Provisional List of Threatened Ecosystems of SA) Vulnerable community (0.2 pts)					
VEGETATION ASSOCIATION DESCRIPTION	Eucalyptus lepto	phylla/E. socialis Ma	allee Woodland over sh	nubs	State (Provisional List of Threatened Ecosystems of SA) Endangered community (0.3 pts)					
SIZE OF SITE (Ha)	0.244				Nationally (EPBC Act) Vulnerable community (0.35 pts)					
					Nationally (EPBC Act) Endangered or Critically Endangered community (0.4 pts)					
Benchmarked attributes			Native Plant	Cover	Note; all sites will score a minimum Conservation Significance Score of 1 Threatened Community S	ore 1				
(Scores determined by comparing to a Benchm	ark community)		Life Forms	rating		-				
			Trees > 15m		Number of Threatened Flora Species recorded for the site (within the site)	Number				
Number of Native Species (Minus herbaceous ann	uals for spring Surv	eys) 54	Trees 5 - 15 m	1	f a species has both a State (NP&W Act) and National (EPBC Act) rating, it's only recorded for its National r					
Native Plant Species Diversity Score (max 30) from be	nchmark score		Trees < 5m		State Rare species recorded (1 pt each)					
weighted by a factor of 2		28.0	Mallee > 5m	3	State Vulnerable species recorded (2.5 pt each)	0				
			Mallee < 5m		State Endangered recorded (5 pts each)	0				
Number of regenerating native species		6	Shrubs > 2m		Nationally Vulnerable species recorded (10 pts each)	0				
Regeneration Score (max 12) from benchmark comm	unity weighted by a f		Shrubs 0.5 - 2m	3	Nationally Endangered or Critically endangered species recorded (20 pts each)	0				
		7.5	Shrubs < 0.5	3	0 = 0 pts; <2 = 0.04 pts; 2 - <5 = 0.08 pts; 5 - <10 = 0.12 pts; 10 - <20 = 0.16 pts; 20 or > = 0.					
Weedmenter	Course Wood	Threat C x I	Forbs Mat Plants	1	Threatened Flora S	ore 0				
Weed species (Top 5 Cover x Invasiveness)		Threat CxI (max5)	Grasses > 0.2m		Potential habitat for Threatened Fauna Species (number observed or previously recorded)	Number				
Asparagus asparagoides forma	2	5 10	Grasses < 0.2m	1	"If a species has both a State (NP&W Act) and National (EPBC Act) rating, it's only recorded for its Natio					
Lycium ferocissimum	1	4 4	Sedges > 1m		State Rare species observed or locally recorded (1 pt each)	0				
Marrubium vulgare	1	3 3	Sedges < 1m		State Vulnerable species observed or locally recorded (2.5 pt each)	0				
Pinus halepensis	1	3 3	Hummock grasses		State Endangered species observed or locally recorded (5 pt each)	0				
Acacia saligna	1	3 3	Vines, scramblers	1	Nationally Vulnerable species observed or locally recorded (10 pts each)	1				
	Cover x Threat	23	Mistletoe	1	Nationally Endangered or Critically endangered species observed or locally recorded (20 pts each)	2				
Weed Score (max 15) from benchmark community		1	Ferns		0 = 0 pts; <2 = 0.02 pts; 2 - <5 = 0.04 pts; 5 - <10 = 0.06 pts; 10 - <20 = 0.08pts; 20 or > = 0.	-				
			Grass-tree		Threatened Fauna S	ore 0.1				
			Total	14		—				
Native Plant Life Forms (max 20) from benchmark sc	ore weighted by a ta	ctor of 2		12.0	CONSERVATION SIGNIFICANCE SCORE	1.1				
Non-Benchmarked Attributes		the community natu			Total Scores for the Site Vegetation Condition x Landscape Cor					
(Scores determined from direct field observatio		Illen Timber/Debris		1.5	Score Conservation Significance =					
Native:exotic Understorey biomass Score (max 5		ollow-bearing trees		2	LANDSCAPE CONTEXT SCORE 1.17 UNIT BIODIVERSITY SCORE	49.45				
		ature Tree Score (n		2	VEGETATION CONDITION SCORE 38.43 CONSERVATION SIGNIFICANCE SCORE 1.10 (Biodiversity Score x bectares)	10.07				
		ee Canopy Cover S	icore (max J)	3	CONSERVATION SIGNIFICANCE SCORE 1.10 (Biodiversity Score x hectares)	12.07				
Venetation Condition Coore extendation										
Vegetation Condition Score calculation Positive Vegetation Attributes Score = Native spe	in the Dec	No. No.			Photo Point and Vegetation Survey Location Direction of the South	ie Photo				
Fallen timber/debris + Hollow-bearing trees	cies diversity + reg	generation + Native F	iant Life Forms		GPS Referen					
- If the community Score is Not Benchmarked (SNE	a) for regeneration t	his soore is multiplie	d 1 24		A State Stat					
 If the community is naturally treeless this score is multiplication. 		na acore la multiplie	0 1.24	53.00	Zone (52, 53 o	atum WGS84				
Negative Vegetation Attributes Score = (15 - Weeds)		core - Tree Canopy (Cover Score)exp2/2)	22.00	Easting (6 d					
VEGETATION CONDITION SCORE (Positive veg attr				38,43		gits) 6214044				
	.ow	Medium	High		Description					
		- noonon11				erophyll shrubs				
Native Plant Species Diversity										
Weed Score										
Native Plant Life Forms										
Regeneration										
Native:exotic Understorey Biomass										
Mature Trees	Mature Trees				What is the purpose of Assessment? Clearance SEB Area Other					
Tree Canopy Cover										
Tree Hollows					Assessment for Clearance Approximate hectares required	1.58				
					Loss Factor 1.0 Economies of Scale Factor	0.5				
Fallen timber					Loadings for clearance of protected areas Mean Annual rainfall for the site (m					
Vegetation Condition Score					Reductions for rehabilitation of impact site Payment into the fund (GST Exclusi SEB Points required 12.67 Administration fee (GST Inclusive)	ve) \$7,563.90 \$416.01				
					action of the sector of the se	\$416.01				

Bushland Scoresheet VA3 Arthurton IBRA

Vegetation Condition Scores				Conservation Significance Score							
SITE:	VA3 Aggregated SS	sites 28-39, all	culverts and curves 8,9)	Is the vegetation association considered a Threat	tened Ecological	community or Ecosyste	m?	Yes/No		
BCM COMMUNITY	YP 4 Mallee with a	Sclerophyll Shi	rub Understorey with Br	roombush	State (Provisional List of Threatened Ecosystem	s of SA) Rare of	ommunity (0.1 pt)				
	and/or Mallee Honey	myrtle			State (Provisional List of Threatened Ecosystem	s of SA) Vulner	able community (0.2 p	its)			
VEGETATION ASSOCIATION DESCRIPTION	Eucalvptus leptophy	lla/ E. socialis I	Mallee Woodland over s	hrubs	State (Provisional List of Threatened Ecosystem						
SIZE OF SITE (Ha)	0.5055				Nationally (EPBC Act) Vulnerable community (0.35 pts)						
	0.0000				Nationally (EPBC Act) Endangered or Critical		community (0.4 pts)				
Benchmarked attributes			Native Plant	Cover	Note; all sites will score a minimum Conservation S	ed Community Score	1				
(Scores determined by comparing to a Benchma	ark community)		Life Forms	rating	,,			,			
			Trees > 15m		Number of Threatened Flora Species record	lumber of Threatened Flora Species recorded for the site (within the site)					
Number of Native Species (Minus herbaceous annua	als for spring Surveys	54	Trees 5 - 15 m	1		If a species has both a State (NP&W Act) and National (EPBC Act) rating, it's only recorded for its National ra					
Native Plant Species Diversity Score (max 30) from ben	chmark score		Trees < 5m		State Rare species recorded (1 pt each)						
weighted by a factor of 2		28.0	Mallee > 5m	3	State Vulnerable species recorded (2.5 pt each	1)			0		
		20.0	Mallee < 5m	3	State Endangered recorded (5 pts each)	4					
Number of regenerating native species		9	Shrubs > 2m	2	Nationally Vulnerable species recorded (10 pts	each)					
Regeneration Score (max 12) from benchmark community weighted by a factor of 1.5			Shrubs 0.5 - 2m	2	Nationally Endangered or Critically endanger		rded (20 pts each)				
	9			2				16 pts: 20 or > = 0.2 pts	0		
				1	0 = 0 pts; <2 = 0.04 pts; 2 - <5 = 0.08 pts; 5 - <10 = 0.12 pts; 10 - <20 = 0.16 pts; 20 or > = 0.2 pts Threatened Flora Score						
Weed species	Cover Weed Three	at CxI	Forbs Mat Plants								
(Top 5 Cover x Invasiveness)	(max 6) Rating (ma		Grasses > 0.2m		Potential habitat for Threatened Fauna Spec				Number		
Asparagus asparagoides forma	1	5 5	Grasses < 0.2m	1	*If a species has both a State (NP&W Act) and	National (EPBC	Act) rating, it's only red	corded for its National r	ating.		
Lycium ferocissimum	1	4 4	Sedges > 1m		State Rare species observed or locally recorded				0		
Pinus halepensis	2	3 6	Sedges < 1m		State Vulnerable species observed or locally re				0		
Acacia saligna	1	3 3	Hummock grasses		State Endangered species observed or locally				0		
Asteriscus spinosus	3 Cover x Threat	2 6	Vines, scramblers	-	Nationally Vulnerable species observed or loca				1		
Weed Score (max 15) from benchmark community	Mistletoe	1	Nationally Endangered or Critically endanger				2				
Weed Score (max 13) from benchmark community		1	Ferns		0 = 0 pts; <2 = 0.02 pts; 2 - <5	= 0.04 pts; 5 - <10			50		
			Grass-tree		-		Thre	atened Fauna Score	0.1		
			Total	17							
Native Plant Life Forms (max 20) from benchmark sco	re weighted by a lactor	012		14.0	CONSERVATION SIGNIFICANCE SCORE				1.1		
Non-Benchmarked Attributes		community nati			Total Scores for the Site Vegetation Condition x Landscape Con						
(Scores determined from direct field observation		n Timber/Debri		1.5	Score Conservation Significance =						
Native:exotic Understorey biomass Score (max 5)			s Score (max 5)	2	LANDSCAPE CONTEXT SCORE 1.15 UNIT BIODIVERSITY SCO				54.94		
		e Tree Score (2			Total Biodiversit				
	Iree	Canopy Cover	Score (max 5)	x 5) 3 CONSERVATION SIGNIFICANCE SCORE 1.10 (Biodiversity Score		ore x hectares)	27.77				
Venetation Condition Come coloulation						_		D'			
Vegetation Condition Score calculation					Photo Point and Vegetation Survey Location	n		Direction of the Pl	noto		
Positive Vegetation Attributes Score = Native speci Fallen timber/debris + Hollow-bearing trees	ies diversity + Regene	ration + Native	Plant Life Forms					Northing (7 digits)			
-					1 des	-		GPS Reference			
 If the community Score is Not Benchmarked (SNB) If the community is naturally treeless this score is multi 		score is multipli	ed 1.24	50.50		Sector and			WGS84		
 If the community is naturally treeless this score is multi Negative Vegetation Attributes Score = (15 - Weeds) + 		Tros Canony	Course Scom Joyn 2/2)	56.50 18.50	and the second second	Constant -		Zone (52, 53 or 54) Easting (6 digits)			
VEGETATION CONDITION SCORE (Positive veg attri				43.43		and have a		Northing (7 digits)			
		•		43.45	AND AND A DESCRIPTION	That was not		Description	0211313		
Lo	ow N	ledium	High			K ST		Mallee Woodland or	er		
Native Plant Species Diversity					A STATE OF A			sclerophyllous shru			
Weed Score					Andrew Street Provide Street	States and States					
Native Plant Life Forms					and the second second	Contraction of the local division of the loc					
Regeneration					and in the second se						
Native:exotic Understorey Biomass	Native:exotic Understorey Biomass										
Mature Trees					What is the purpose of Assessment?	earance	SEB Area Ot	her			
Tree Canopy Cover					Assessment for Clearance		Annual state of the				
Tree Hollows					Loss Factor	1.0	Approximate hecta		3.65		
Fallen timber					Loss Factor Loadings for clearance of protected areas	1.0	Economies of Scale	e Factor all for the site (mm)	0.5		
		_			Reductions for rehabilitation of impact site			und (GST Exclusive)	\$18,106,82		
Vegetation Condition Score					SEB Points required	29.16	Administration fee		\$995.88		

Bushland Scoresheet VA4

Vegetation Condition Scores			Conservation Significance Score		
SITE:	VA4 YP5 Aggregated shoulder seal sites 10, 11, 22, 23			is the vegetation association considered a Threatened Ecological community or Ecosystem?	Yes/No
VEGETATION ASSOCIATION DESCRIPTION	E. gracilis/E. oleosa/E. leptophylla Mallee with chenopod understorey		storey	State (Provisional List of Threatened Ecosystems of SA) Rare community (0.1 pt)	
SIZE OF SITE (Ha) 0.1375				State (Provisional List of Threatened Ecosystems of SA) Vulnerable community (0.2 pts)	
				State (Provisional List of Threatened Ecosystems of SA) Endangered community (0.3 pts)	
Native Plant species diversity	Regeneration		Nationally (EPBC Act) Vulnerable community (0.35 pts)		
Score the diversity of species present in the site as a pro-	No regeneration present (0 Points)		Contains a Nationally (EPBC Act) Endangered or Critically Endangered community (0.4 pts)		
to what would be expected in a vegetation of that community in very 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 Threatened CommuntiyScore	1
<5% (3 Points)		juvenile plants of a limited number of species (3 points)	_	Number of Threatened Flora Species recorded for the site (within the site)	Number
5-10% (6 Points)		Regeneration present, consisting of multiple individual juvinile plants but a limited number of species (6 points)		1/1 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)	0
21 - 30% (12 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)	
61 - 70% (24 Points)				0 = 0 pts; <2 = 0.04 pts; 2 - <5 = 0.08 pts; 5 - <10 = 0.12 pts; 10 - <20 = 0.16 pts; 20 or > = 0.2 pt	0
71 - 80% (27 Points)		Regeneration Score (Max 12)	6	Threatened Flora Score	0
>80% (30 Points)					
Native Plant species diversity score (max score of 30) 21 Native Plant life form			Potential habitat for Threatened Fauna Species (number observed or previously recorded) 11f a species has both a State (NP&W Act) and National (EPBC Act) rating, it's only recorded for its National	Number	
Weed Scores		All strata of vegetation heavily impacted and native vegetation represented by only scattered plants (4		State Rare species observed or locally recorded (1 pt each)	laung.
Does the site contain plant species declared under the		points)		State Vulnerable species observed or locally recorded (1.5 pt each)	0
NRM Act 2004 (1.5 points)		All strata of vegetation impacted with limited		State Endangered species observed or locally recorded (5 pt each)	Ő
Cover rating for all declared weeds (max of 6)	1	structural diversity, largely uniform age classes and		Nationally Vulnerable species observed or locally recorded (10 pts each)	1
Does the site contain environmental weeds (introduced		reduced vegetation cover (8 points)		Nationally Endangered or Critically endangered species observed or locally recorded (20 pts each)	2
plants with the capacity to invade and exclude native		At least one strata of vegetation has been		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	50
species from bushland. This typically includes species	_	impacted, with reduced structural diversity, elements		Threatened Fauna Score	0.1
with a BCM weed threat rating of 3, 4 or 5). (1 Point)		may be missing (such as plant species that provide specific structural features e.g. sedges or mid layer			
Cover rating for all environmental weeds (max of 6)	2	shrubs) and reduce vegetation cover (12 points)		CONSERVATION SIGNIFICANCE SCORE	1.1
Weed Score (max score of 15)	11.5	Limited impacts on native vegetation, with a diversity			•
		of structural features and a varied age class, with		Total Scores for the Site Vegetation Condition x Landscape Cor	ntext x
Is the community naturally treeless?		only a minor loss in structurally diversity, vegetation		Score Conservation Significance =	
Mature Tree Score (max 8)	4	cover or structural elements (16 points)		LANDSCAPE CONTEXT SCORE 1.13 UNIT BIODIVERSITY SCORE	53.70
Fallen timber/debris (max 5)	3	All strata of vegetation present, little or no sign of		VEGETATION CONDITION SCORE 43.20 Total Biodiversity Score	
Hollow-bearing trees Score (max 5)	2	disturbance. A variety of life forms and associated		CONSERVATION SIGNIFICANCE SCORE 1.10 (Biodiversity Score x hectares)	7.38
Tree Canopy Cover Score (max 5)	3	age classes present. Vegetation cover near complete (20 points)		Photo Point and Vegetation Survey Location Direction of the Pho	ta
Native:exotic Understorey biomass score (max 5)	4	Native Plant life form score (max 20)	12		10
Venetetien Candition Cases astrolation				south GPS Reference	
Vegetation Condition Score calculation Positive Vegetation Attributes Score = Native species diversity + Regeneration + Native Plant Life Forms + Mature Trees +				WGS84	
Follow vegetation Authorities score = Native species diversity + Regeneration + Native Plant Life Porms + Mature Trees + Fallen timber/debris + Hollow-bearing trees			Zone (52, 53 or 54)		
If the community is naturally treeless this score is multiplied	i by 1.24		48.00	Easting (6 digits)	
Negative Vegetation Attributes Score = (15 - Weeds) + (ass score - Tree Canopy Cover Score)exp2/2)	8.00	Northing (7 digits)	
VEGETATION CONDITION SCORE (Positive veg attributes x ((Negative vegetation attributes + 60) / 80)) 43.20			Description		
Lov	N	Medium High		Open mallee woodland	d over
Native Plant Species Diversity				chenopods	
Weed Score					
Native Plant Life Forms			The second s		
Regeneration					
Native:exotic Understorey Biomass					
Tree Canopy Cover Score				and the second	
Mature Tree Score				Assessment for Clearance Approximate hectares required	0.97
Tree Hollows				Loss Factor 1.0 Economies of Scale factor	0.97
Fallen timber				Loadings for clearance of protected areas Mean Annual rainfall for the site (mm)	386
Vegetation Condition Score				Reductions for rehabilitation of impact site Payment into the fund (GST Exclusive)	\$4,466.31
Vegration Carutation zone SEB Points required 7.75 Administration fee (GST Inc					\$245.65