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Native Vegetation Clearance

VS 2022/24 Hog Bay Road Kangaroo Island MM 0 – MM 52 Road Upgrade Project

Data Report

Clearance under the Native Vegetation Regulations 2017

21 August 2022 Prepared by JS Ayre & Associates

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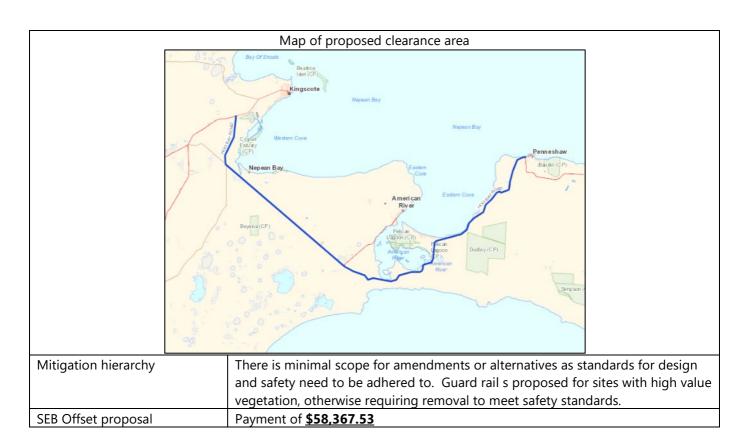
1. Application information

Application Details

Applicant:	Department for Infrastructure and Transport					
Key contact:						
Landowner:	The Crown					
Site Address:	Hog Bay Road, MM 0 (Playford	d Highway) to MM 52	2 (Penneshaw)			
Local Government	Kangaroo Island Council	Hundred:	Menzies,			
Area:						
Title ID:	N/A Road Reserve	Parcel ID	N/A Road Reserve			

Summary of proposed clearance

Purpose of clearance	Clearance is required to facilitate road upgrade works including shoulder sealing, culvert upgrades, curve widening and hazard protection or removal.
Native Vegetation Regulation	Regulation 12, Schedule 1; clause 32, Works on behalf of Commissioner of Highways
Description of the vegetation under application	Size, type and general condition – total 1.1455ha made up of: VA 1. 0.098 ha of <i>Eucalyptus diversifolia, E. cosmophylla</i> mallee woodland VA 2. 0.02 ha of <i>Eucalyptus rugosa, E. diversifolia</i> mallee woodland VA 3. 0.336 ha of <i>Eucalyptus cneorifolia, E. diversifolia</i> mallee woodland VA 4. 0.303 ha of <i>Eucalyptus cneorifolia/ E. diversifolia/ E. rugosa</i> open forest VA 5. 0.114 ha of <i>Eucalyptus cneorifolia, E. cosmophylla, E. diversifolia,</i> mid mallee VA 6. 0.0635 ha of <i>Myoporum insulare, Leucopogon parviflorus, Olearia axillaris</i> tall shrubland VA 7. 0.0825 ha of <i>Melaleuca halmaturorum, M. brevifolia, M. lanceolata</i> low woodland VA 8. 0.07 ha of <i>Leucopogon parviflorus, Olearia axillaris, Myoporum insulare</i> shrubland VA 9. 0.0585 ha of <i>Melaleuca halmaturorum, M. brevifolia</i> shrubland
Total proposed clearance - area (ha) and number of trees	1.1455 ha of remnant vegetation is likely to be impacted.
Level of clearance	Level 4
Overlay (Planning and Design Code)	N/A



2. Purpose of clearance

2.1 Description

The Department for Infrastructure and Transport (DIT) proposes to upgrade Hog Bay Road to improve road safety, vehicle flow, freight productivity and to improve north-south connection to the main arterial route to enhance bushfire resilience. Much of the road, which travels between Kingscote (Playford Highway junction) and Penneshaw, is fringed with remnant vegetation, some of which will be impacted by shoulder sealing, curve widening, culvert upgrades and hazard protection or removal.

2.2 Background

Hog Bay Road is an arterial road providing the main transport link between the town of Kingscote and Penneshaw, where the ferry from Cape Jervis docks. The road upgrade works is scheduled to occur in three parts – the realignment of the junctions of Hog Bay Road with Arronmore Road and Elsegood Road (VS 2022/21); general infrastructure upgrade works from MM 0 – MM 52 (this report); and an overtaking lane at MM 50 – MM 52 (VS 2022/022). Each of the parts are subject to separate clearance applications (submitted, or in progress).

Roadsides in the area of works are mostly well vegetated, with road reserves from around 20m and up to 100m wide, often linking to significant patches of remnant vegetation on private land. Most of the adjacent properties are farmland used for sheep grazing. Small townships and localities occur within a few hundred meters off the main road, including Brown Beach, American Beach, Baudin Beach and Nepean Bay.



Figure 1. Location of the site

2.3 Details of the proposal

The project scope includes the following works:

- Shoulder sealing along most of the road length
- Curve widening at approximately 20 locations
- Guard fence replacement, installation or extension to protect hazards
- Upgrades to approximately 40 culverts
- Hazard removal where protection is not feasible

The design aims to achieve a lane width of 3.3m, plus 1m sealed shoulders (2m on outside curves), 0.5m of unsealed shoulder, and 1m deflection zone behind guard fence. This additional 1m was also applied where no guard fence is proposed, serving as a 1.0m contractor's activity zone (CAZ). A minimum 6m from centreline was assessed, with minimum 7m where curve widening was proposed.

Ninety sites were assessed as potentially impacted, including up to 40 culvert sites, some on both sides. Table 1 gives an indication of the impacted sites, their location, and vegetation community. The estimated area of impact is considered worst-case scenario, accounting for the maximum area likely to result from final design and contractor's activity zones during construction.

2.4 Approvals required or obtained

- Native Vegetation Act 1991
 An application to clear native vegetation is required. This data report and accompanying scoresheets and shapefile is in part fulfillment of this requirement.
- Environment Protection and Biodiversity Conservation Act 1999 (impacts on MNES)
 The road occurs in areas that are identified as MNES under this Act. Whilst the impact is not considered significant, a referral may be required.
- Landscapes SA (e.g. water affecting activity permit) The works may impact watercourses and permits may be required under this Act
- Aboriginal Heritage Act 1988– work will be mainly within the previously disturbed shoulder and verge and is
 not considered to pose a high risk of encountering Aboriginal sites or objects. The Departmental SOP is a
 guideline for the assessment and management of Aboriginal objects, sites and remains, should any be
 disturbed during construction of infrastructure projects or maintenance activities. This will be provided to all
 contractors.

2.5 Native Vegetation Regulation

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

2.6 Development Application information (if applicable)

Not applicable

3. Method

3.1 Flora assessment

Desktop reviews of relevant databases and websites were undertaken prior to site assessment. An online search was undertaken for Environment Protection and Biodiversity Conservation (EPBC) Act "Matters of Environmental Significance" and an interrogation of the BDBSA databases was completed as background to the field assessment.

Thirty three threatened plant species were recorded in the database search with the search criteria of within 5km of the site, recorded since 1995 (see Appendix 3). Two - *Beyeria subtecta* and *Xanthorrhoea semiplana ssp. tateana* - were found during the assessment. The survey was undertaken in mid-winter, when many annual species are not evident, and diagnostic features on most of the perennial species, such as flowers or fruit, are not present, making species confirmation sometimes difficult.

Two EPBC and/or State threatened communities are potentially present amongst the vegetation impacted.

The assessment took place over the 13th – 17th and 20th – 23rd June 2022. The scope of works was outlined, discussed and refined prior to the field survey. The scope document was employed as the route was assessed in MM order from MM 0, near Kingscote, to MM 52, near Penneshaw. Potential impacts from culvert upgrades, shoulder sealing, curve widening, earthworks to increase shoulder width, scour repair work and guard fence installation or hazard removal were assessed across the route.

Vegetation associations were assigned to each site (with reference to Willoughby *et al.* 2001¹) based on the broader area of vegetation in the road reserve (and beyond). Except for determining the vegetation association, species lists are focused on the area likely to be impacted by the works. These are generally limited to the first 0-2m from the current edge of shoulder for shoulder sealing and guard fence installation works; and up to 3m from current edge of shoulder for curve widening works. Where vegetation occurred within this zone, it was recorded as a potential

¹ Willoughby, N., Opperman. A, and Inns, R. W. (2001) Biodiversity Plan for Kangaroo island South Australia. Dept for Environment and Heritage, South Australia.

impact. Culvert impacts are generally assessed as vegetation occurring within a 10m x 10m area from the current culvert, into the road reserve.

Where disjunct assessment sites were considered to have attributes cohesive with a particular vegetation association, these are aggregated on scoresheets. The vegetation association at the numerous culverts assessed, for example, was almost exclusively *Melaleuca halmaturorum* shrubland, and despite being distant from each other, are recorded as one association on the bushland scoresheets.

A few of the very small (e.g. 5m²) sites recorded have been included in the main IBRA association assigned to the majority of the community. It was considered inefficient to separate them from the larger IBRA associations, which had negligible impact on final scores.

SA Water are in the process of installing a pipeline along much of the route (assessed by Ecological Associates Pty Ltd²). Where these pipeline works have been undertaken, and clearance appears to have already occurred, a brief review was conducted to determine if the road upgrade would have further impact. Where it would not, these areas have been excluded from this report.

3.2 Fauna assessment

A systematic dedicated fauna assessment was undertaken by an experienced field biologist. This was complemented by incidental and opportunistic fauna observations by vegetation assessors as the survey progressed.

Initial desktop assessment of databases including the EPBC Act "Matters of Environmental Significance", and BDBSA revealed records of 63 (Tables 2, 3 and 4) threat rated species within a corridor extending five kilometres either side of the length of the Penneshaw to Kingscote road. However, due to the proximity of significant sections of the road to the sea, many of these are oceanic, shoreline or waterbird species which can be excluded from the assessment.

Given the lengthy, narrow, linear nature of the potential impact area, trapping and other direct fauna survey techniques were impractical and not feasible to cover its entirety. Minimal disturbance, indirect methods were recommended as the best option for obtaining a comprehensive understanding of the fauna present in this situation. These included:

- searching larger representative samples of the major native vegetation associations along the roadside, recording observations, tracks and traces and any other signs of vertebrate species present. To provide a systematic approach, sampling occurred over one hour at each of 20 individual sites, representative of the variety of vegetation associations of, each plot of 100m long by 50m deep, adjacent to the road. Particular attention was given to searching for significant tree hollows and inspecting dense thickets which could provide sheltered day time rest sites for macropods. Ultimately, the presence of these larger mammal species was frequently recorded through the skeletal remains of road-killed individuals
- spotlighting at each of the nominated 20 sites for approximately 30 minutes, to confirm, if possible, the presence of nocturnal active species indicated by the diurnal inspection, and other species not anticipated, plus nocturnal bird species which are difficult to find during the day
- opportunistic recording of species observed along the roadside whilst carrying out the systematic surveys
 described above, including spotlighting, supplemented with short searches at less significant areas of
 roadside vegetation as necessary

Sixty two fauna species (or evidence of) were observed during the field survey, including 12 listed as threatened, eleven within 5km of the impacted sites (Brown-headed Honeyeater, Purple-gaped Honeyeater, White-eared Honeyeater, Scarlet Robin, Shy Heathwren, Striated Thornbill, Yellow-tailed Black-cockatoo, Peregrine Falcon, Common Brushtail Possum, Short-beaked Echidna and Heath Goanna). The Bush Stone-curlew was heard at night, proximity to sites is unknown.

See Part 4.2 and Appendix 1 and 2 for further details.

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² Ecological Associates Pty Ltd (Marcus Cooling) (2020) Native Vegetation Clearance, Kangaroo Island Pipeline Stage 1 Data Report (unpublished)

4. Assessment Outcomes

4.1 Vegetation Assessment

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

• Landform, geography and soils

MM 0 – 6 Cygnet River Land System – comprising low lying alluvial and colluvial plains and valley flats, with the Cygnet River floodplain occurring from west to east and low lying saline coastal plains to the east. Soils are alkaline duplex, loamy clay, sandy topsoil over clay, and clay. The vegetation is primarily *Eucalyptus cneorifolia* mallee woodland in elevated areas, with *E. camaldulensis* along creeklines, and *Melaleuca halmaturorum* shrubland over saline tolerant species in lowling areas and drainage channels. MM 6 – 9 Nepean Bay Land System – low-lying coastal flats with sandy beach ridges, bordered by the sea to the east and escarpment slopes to the south, and arable plains to the west. Soils are deep siliceous sand, calcareous siliceous sands and slay loam to sandy loam. Vegetation is generally *E. cneorifolia/E. diversifolia/E. rugosa* mallee, *Melaleuca* shrublands, and heathy communities on higher areas.

MM9 -13 Cygnet Escarpment Land System - consisting of slopes and gullies, bordered by upland plateau areas to the south, and lowland plains to the north. The western edge is bordered by a saline drainage depression. Soils are stony texture contrast soil, rocky soil, sand over clay. Vegetation is as above. MM 13 – 23 Bugga Bugga Land System – of rises and plateau areas, with drainage depressions and a few lagoonal depressions. The catchment of Bugga Bugga Creek forms the main part of this system. Also included is a narrow ridge to the west of this catchment area. To the east and north-east are coastal slopes and gullies. To the north are plateau areas, predominantly 'gilgaied' with cracking clay soils. To the south are low-lying plains with saline lagoonal depressions. Soils are ironstone, cracking texture contrast soil, stony, deep sands and cracking clay. Vegetation as above.

MM 23 – 25 Flour Cask Bay Land System – formed with undulating rises, and some remnant jumbled calcreted dune areas which form part of an old beach ridge. Surrounded on most sides by low-lying plains with lagoons, adjacent to other remnant dune areas in the north-east. An old beach ridge lies between this system and the ocean. Soils are shallow soil on calcrete, sand over sodic clay. Vegetation is made up of *E. diversifolia/E. rugosa* mallee and *Leucopogon parviflorus, Myoporum insulare* shrublands and samphire communities in the low areas near Pelican Lagoon.

MM 25 – 27.5 Prospect Hill Land System - an old beach ridge area with some modern sand dunes and many old remnant calcreted areas. D'Estrees Bay and Pennington Bay to the south; the American River inlet, rises and coastal slopes to the northeast; and low-lying plains with lagoons to the north and west are within this system. Older beach ridges lie parallel to this system further inland. Prospect Hill, also known as Mount Thisby, is a very high dune near the western edge of this system. Soils are shallow soil on calcrete to deep shell sand. Vegetation as above.

MM 27.5 – 45 Pelican Lagoon Land System - this system forms the land bridge between the Dudley Peninsula and the main part of Kangaroo Island, dominated by old calcreted jumbled dunes. Plains, flats and depressions also occur, many of which are calcreted. Coastal sand dunes occur; and tidal flats are widespread. Soils range from shallow calcareous loamy sand, calcareous loam, to wet saline shallow soil on calcrete. Vegetation is mostly *E. cneorifolia, E. diversifolia* and *E. rugosa, Melaleuca lanceolata* mallee, with heathland and shrubland also present.

MM 45 – 52 Dudley Land System - this is a highly dissected plateau area, with adjacent slopes, drainage depressions and creek gullies, coastal slopes and gullies, coastal cliffs, a few outwash plains, and a few coastal swamps and dunes. Soils are deep texture contrast soil ,lronstone soil and texture contrast soil on weathered rock. Vegetation is predominantly *E. cneorifolia* mallee woodland

• Landform feature of significance (rivers, creeks, rocky outcrops, etc.)

Nepean Bay vegetation and wetlands are notable around MM 6-9, and many sweeping rural and coastal views are offered along the route. Probably the most significant feature is American River lagoon, occurring north of the road from MM 27- 35. Access to Mt Thisby is around MM 26 and this feature forms a significant landmark for travellers in this vicinity.

Only one significant river crosses the work site; Cygnet River, MM 0.8 Stream order 6. Numerous insignificant creeks (stream order 1 and 2) cross the site between MM 1 and MM 24.

• General overview of the vegetation under application as a whole (e.g. contains x number of vegetation associations / trees)

Ninety individual sites were assessed as potentially impacted by the works. These were assigned to the following vegetation associations (bolded = potentially EPBC listed communities):

- VA 1. Eucalyptus diversifolia/ E. cosmophylla mallee woodland (twelve sites)
- VA 2. Eucalyptus rugosa/ E. diversifolia mallee woodland (one site)
- VA 3. Eucalyptus cneorifolia/ E. diversifolia mallee woodland (fifteen sites)
- VA 4. Eucalyptus cneorifolia/ E. diversifolia/ E. rugosa open forest (seven sites)
- VA 5. Eucalyptus cneorifolia/ E. cosmophylla/ E. diversifolia, mid mallee (four sites)
- VA 6. Myoporum insulare/ Leucopogon parviflorus/ Olearia axillaris tall shrubland (eleven sites)
- VA 7. Melaleuca halmaturorum/ M. brevifolia, M. lanceolata low woodland (three sites)
- VA 8. Leucopogon parviflorus/ Olearia axillaris/ Myoporum insulare shrubland (one site)
- VA 9. *Melaleuca halmaturorum/M. brevifolia* shrubland (thirty five sites)
- General description of the vegetation relating to type and condition (i.e. is the vegetation relatively homogeneous, or there significant variation)
 Table 1. identifies the site locations, impact type and their corresponding vegetation association. Within associations some heterogeneity was noted, especially within the KI Narrow Leaf Mallee community. Where these were significant, separate vegetation associations were assigned, but it is accepted that some communities, especially where disjunct, exhibited significant variation.
- Provide a description of the landscape context for the vegetation (e.g. isolated patch of vegetation in cropping landscape) and proximity to protected areas (Conservation Parks, Heritage Agreements, etc.)
 The vegetation assessed comprises roadside vegetation covering a range of associations occurring in a patchy fragmented landscape where remnant vegetation is mostly on roadsides and/or in small pockets or patches on private property, very little of which is conserved. One Heritage Agreement, HA 235, crosses the site, at approximate MM11 13.2 and there are several within a 5km radius of the site. Cygnet Estuary, Pelican Lagoon and Dudley Conservation Parks are within 5km of the site.
- Provide a description of the landscape context for the vegetation (e.g. isolated patch of vegetation in cropping landscape) and proximity to protected areas (Conservation Parks, Heritage Agreements, etc.)
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Table 1. Sites, impact type and vegetation association

SITE #	LOCATION	AREA m ²	ІМРАСТ ТҮРЕ	VEGETATION ASSOCIATION	
1	MM 1.333 LHS	5	Culvert upgrade	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species	
2	MM 1.900 LHS	20	Curve widening	VA1 Eucalyptus diversifolia, E. cosmophylla +/- E. cneorifolia mallee woodland	
3	MM 2.00 LHS	5	Culvert upgrade	VA6 Myoporum insulare, Leucopogon parviflorus, Olearia axillaris tall shrubland	
4	MM 2.634 RHS	25	Shoulder sealing	VA7 Melaleuca halmaturorum, M. brevifolia, M. lanceolata low woodland	
5	MM 2.730 LHS	10	Culvert upgrade	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species	
6	MM 3.187 – 3.232 LHS	45	Shoulder sealing	VA3 Eucalyptus cneorifolia, E. diversifolia mallee woodland	
7	MM 3.152 – 3.232 RHS	80	Shoulder sealing	VA3 Eucalyptus cneorifolia, E. diversifolia mallee woodland	
8	MM 3.001 LHS, RHS	10	Culvert upgrade	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species	
9	MM 3.110 LHS	15	Culvert upgrade	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species	
10	MM 3.920 LHS	5	Culvert upgrade	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species	
11	MM 4.094 – 4.324 RHS	60	Curve widening	VA3 Eucalyptus cneorifolia, E. diversifolia mallee woodland	
12	MM 4.500 LHS & RHS	5	Culvert upgrade	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species	
13	MM 5.920 – 5.940 LHS	40	Curve widening	VA3 Eucalyptus cneorifolia, E. diversifolia mallee woodland	
14	MM 6.073 – 6.180 RHS	215	Curve widening	VA3 Eucalyptus cneorifolia, E. diversifolia mallee woodland	
15	MM 6.093 – 6.200 LHS	275	Curve widening	VA3 Eucalyptus cneorifolia, E. diversifolia mallee woodland	
16	MM 6.40 – 6.41 RHS	10	Shoulder sealing	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species	
17	MM 6.45 – 6.510 RHS	120	Shoulder sealing	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species	
18	MM 6.58 RHS	75	Shoulder sealing	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species	

SITE #	LOCATION	AREA m ²	ІМРАСТ ТҮРЕ	VEGETATION ASSOCIATION
19	MM 6.74 -6.80 RHS	50	Shoulder sealing	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species
20	MM 6.843 LHS	10	Culvert upgrade	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species
21	MM 6.970 LHS & RHS	20	Culvert upgrade	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species
22	MM 7.43 LHS & RHS	10	Culvert upgrade	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species
23	MM 7.460 LHS	10	Culvert upgrade	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species
24	MM 7.67 LHS	10	Culvert upgrade	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species
25	MM 7.750 LHS	10	Culvert upgrade	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species
26	MM 7.80 LHS	10	Culvert upgrade	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species
27	MM 7.84 LHS	20	Culvert upgrade	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species
28	MM 8.15 LHS & RHS	10	Culvert upgrade	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species
29	MM 8.0 – 8.4 LHS	400	Shoulder sealing	VA7 Melaleuca halmaturorum, M. brevifolia, M. lanceolata low woodland
30	MM 8.0 – 8.4 RHS	400	Shoulder sealing	VA7 Melaleuca halmaturorum, M. brevifolia, M. lanceolata low woodland
31	MM 8.4 LHS & RHS	20	Culvert upgrade	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species
32	MM 8.40 8.80 LHS	600	Shoulder sealing	VA3 Eucalyptus cneorifolia, E. diversifolia Mallee Woodland
33	MM 8.40 - 8.98 RHS	1200	Shoulder sealing	VA3 Eucalyptus cneorifolia, E. diversifolia Mallee Woodland
34	MM8.72 LHS	5	Culvert upgrade	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species
35	MM 8.72 RHS	10	Culvert upgrade	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species
36	MM 9.05 – 9.3 RHS	600	Guard fence	VA5 Eucalyptus cneorifolia, E. cosmophylla, E. diversifolia, mid mallee
37	MM 9.080 LHS	10	Culvert upgrade	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species
38	MM 9.080 RHS	10	Culvert upgrade	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species
39	MM 10.4 – 10.47 RHS	140	Shoulder sealing	VA5 Eucalyptus cneorifolia, E. cosmophylla, E. diversifolia, mid mallee

SITE #	LOCATION	AREA m ²	ІМРАСТ ТҮРЕ	VEGETATION ASSOCIATION
40	MM 10.43 – 10.44 both sides	100	Bridge guard fence	VA5 Eucalyptus cneorifolia, E. cosmophylla, E. diversifolia, mid mallee
41	MM 10.5 – 10.8 RHS	300	Shoulder sealing	VA5 Eucalyptus cneorifolia, E. cosmophylla, E. diversifolia, mid mallee
42	MM 11.2 – 11.5 LHS	150	Scour repairs	VA1 Eucalyptus diversifolia, E. cosmophylla +/- E. cneorifolia mallee woodland
43	MM 12.30 -12.40 RHS	100	Scour repairs	VA1 Eucalyptus diversifolia, E. cosmophylla +/- E. cneorifolia mallee woodland
44	MM 12.390 LHS	5	Culvert upgrade	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species
45	MM 12.390 RHS	5	Culvert upgrade	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species
46	MM 12.750 LHS	20	Culvert upgrade	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species
47	MM 12.750 RHS	20	Culvert upgrade	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species
48	MM 13.370 RHS	10	Culvert upgrade	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species
49	MM 16.180 LHS	5	Culvert upgrade	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species
50	MM 16.180 RHS	5	Culvert upgrade	VA3 Eucalyptus cneorifolia, E. diversifolia Mallee Woodland
51	MM 18.630 LHS	10	Culvert upgrade	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species
52	MM 18.630 RHS	10	Culvert upgrade	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species
53	MM 19.010 LHS	5	Culvert upgrade	VA1 Eucalyptus diversifolia, E. cosmophylla +/- E. cneorifolia mallee woodland
54	MM 20.090 LHS	5	Culvert upgrade	VA3 Eucalyptus cneorifolia, E. diversifolia mallee woodland
55	MM 20.090 RHS	20	Culvert upgrade	VA3 Eucalyptus cneorifolia, E. diversifolia mallee woodland
56	MM 20.660 LHS	10	Culvert upgrade	VA3 Eucalyptus cneorifolia, E. diversifolia mallee woodland
57	MM 20.660 RHS	10	Culvert upgrade	VA1 Eucalyptus diversifolia, E. cosmophylla +/- E. cneorifolia mallee woodland
58	MM 21.350 LHS	5	Culvert upgrade	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species
59	MM 21.350 RHS	5	Culvert upgrade	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species
60	MM 23.150 - 23.155 RHS	5	Curve widening	VA1 Eucalyptus diversifolia, E. cosmophylla +/- E. cneorifolia mallee woodland
61	MM 23.7 RHS	10	Shoulder sealing	VA1 Eucalyptus diversifolia, E. cosmophylla +/- E. cneorifolia mallee woodland

SITE #	LOCATION	AREA m ²	ІМРАСТ ТҮРЕ	VEGETATION ASSOCIATION
62	MM 23.77 – 23.85 RHS	160	Shoulder sealing	VA1 Eucalyptus diversifolia, E. cosmophylla +/- E. cneorifolia mallee woodland
63	MM 24.030 – 24.110 LHS	160	Shoulder sealing	VA1 Eucalyptus diversifolia, E. cosmophylla +/- E. cneorifolia mallee woodland
64	MM 24.020 – 24.100 RHS	160	Shoulder sealing	VA1 Eucalyptus diversifolia, E. cosmophylla +/- E. cneorifolia mallee woodland
65	MM 24.45 to 24.55 RHS	100	Curve widening	VA1 Eucalyptus diversifolia, E. cosmophylla +/- E. cneorifolia mallee woodland
66	MM 26.060 - 26.160 RHS	100	Curve widening	VA1 Eucalyptus diversifolia, E. cosmophylla +/- E. cneorifolia mallee woodland
67	MM 26.790 – 26.850 LHS	60	Curve widening	VA6 Myoporum insulare, Leucopogon parviflorus, Olearia axillaris tall shrubland
68	MM 26.790 – 26.850 RHS	60	Shoulder sealing	VA6 Myoporum insulare, Leucopogon parviflorus, Olearia axillaris tall shrubland
69	MM 27.050 – 27.110 RHS	90	Shoulder sealing	VA6 Myoporum insulare, Leucopogon parviflorus, Olearia axillaris tall shrubland
70	MM 27.180 – 27.290 RHS	110	Shldr seal and scour repair	VA6 Myoporum insulare, Leucopogon parviflorus, Olearia axillaris tall shrubland
71	MM 31.260 – 31.280 RHS	20	Shoulder sealing	VA6 Myoporum insulare, Leucopogon parviflorus, Olearia axillaris tall shrubland
72	MM32.710 – 32.820 LHS	110	Earthworks for shldr widening	VA6 Myoporum insulare, Leucopogon parviflorus, Olearia axillaris tall shrubland
73	MM32.710 - 32.820 RHS	110	Shoulder sealing	VA6 Myoporum insulare, Leucopogon parviflorus, Olearia axillaris tall shrubland
74	MM 32.90 - 33.00 LHS	100	Earthworks for shoulder widening	VA6 Myoporum insulare, Leucopogon parviflorus, Olearia axillaris tall shrubland
75	MM 33.2 – 33.350 RHS	225	Curve widening	VA6 Myoporum insulare, Leucopogon parviflorus, Olearia axillaris tall shrubland
76	MM 34.170 – 34.330 LHS	70	Davies Road Junction	VA6 Myoporum insulare, Leucopogon parviflorus, Olearia axillaris tall shrubland
(No site	77)			
78	MM 43.1 – 43.2 LHS	200	Earthworks for shoulder widening	VA2 Eucalyptus rugosa, E. diversifolia +/- E. cneorifolia mallee woodland
79	MM 45.90 – 46.25 RHS	700	Earthworks for shoulder widening	VA8 Leucopogon parviflorus, Olearia axillaris, Myoporum insulare, +/- Acacia leiophylla Shrubland

SITE #	LOCATION	AREA m ²	ІМРАСТ ТҮРЕ	VEGETATION ASSOCIATION
80	MM 46.590 LHS	5	Culvert upgrade	VA3 Eucalyptus cneorifolia, E. diversifolia mallee woodland
81	MM 46.70 – 46.80 LHS	200	Earthworks for shoulder widening	VA3 Eucalyptus cneorifolia, E. diversifolia mallee woodland
82	MM 47.2 – 47.5 LHS	600	Earthworks for shoulder widening	VA3 Eucalyptus cneorifolia, E. diversifolia mallee woodland
83	MM 47.540 RHS	100	Culvert upgrade	VA4 Eucalyptus cneorifolia, E. diversifolia, E. rugosa mallee forest
84	MM 47.630 – 47.670 LHS	40	Shoulder sealing	VA4 Eucalyptus cneorifolia, E. diversifolia , E. rugosa mallee forest
85	MM 47.8 – 47.85 LHS	50	Shoulder sealing	VA4 Eucalyptus cneorifolia, E. diversifolia , E. rugosa mallee forest
86	MM 49.080 – 49.56 LHS	960	Guard fence*/hazard removal	VA4 Eucalyptus cneorifolia, E. diversifolia , E. rugosa mallee forest
87	MM 49.48 – 49.56 RHS	1560	Guard fence*/hazard removal	VA4 Eucalyptus cneorifolia, E. diversifolia , E. rugosa mallee forest
88	MM 49.65 – 49.70 LHS	100	Curve widening (small bank excavation required)	VA4 Eucalyptus cneorifolia, E. diversifolia , E. rugosa mallee forest
89	MM 49.990 – 50.1 LHS	220	Curve widening (small bank excavation required)	VA4 Eucalyptus cneorifolia, E. diversifolia , E. rugosa mallee forest
90	MM 52 LHS	20	Bridge/footpath	VA9 Melaleuca halmaturorum, M. brevifolia shrubland over swamp species

Site maps showing areas of proposed impact - Figures 2 to 9 below



Figure 2. Sites 1 to 12



Figure 3. Sites 13 to 38





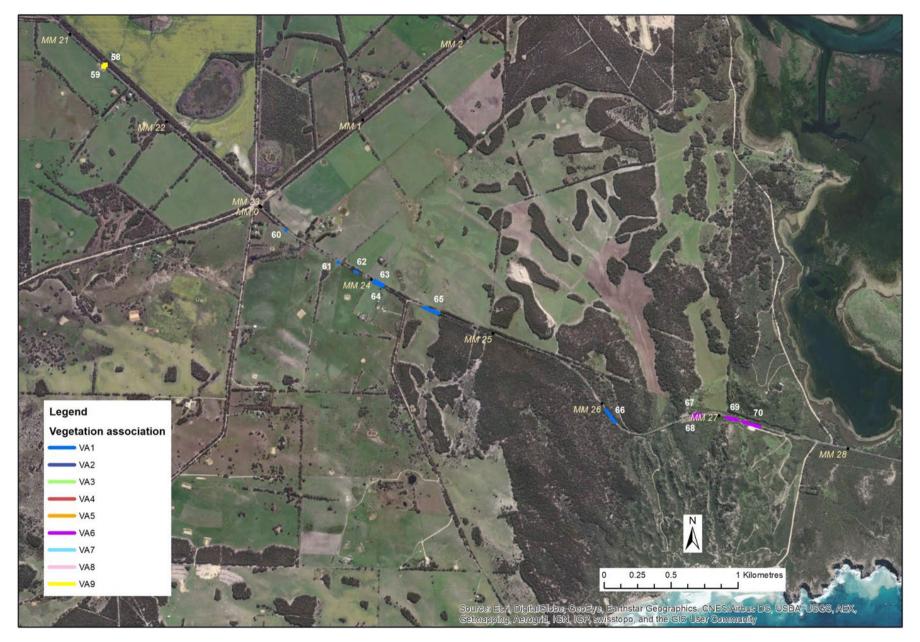




Figure 7. Sites 71 to 76





Details of the vegetation associations proposed to be impacted

Vegetation Association VA1; Eucalyptus diversifolia, E. cosmophylla +/- E. cneorifolia mallee woodland.





Photo 2. Facing southeast, MM 26.06 RHS

General description	Incudes Impacted Dominar understo Acacia a disturba Disturbe shoulder Listed flo Listed flo Listed flo e ssociati Listed fa	nt species is <i>Eucalyptus</i> prey comprising <i>Myopo</i> and <i>Allocasuarina</i> spp. Ince than wider areas of d by works on the roa <u>Most sites have Brids</u> ora and fauna historicator on, but not in the imp una observed: <i>Xanthorn</i> on, but not in the imp una observed within 5 Brown Headed Honeye Bush Stone Curlew (site Peregrine Falcon (site Purple-gaped Honeye Scarlet Robin (sites 2, 4 Shy Heathwren (sites 6 Striated Thornbill (42, White-eared Honeyea Yellow-tailed Black Co	7, 60 – 66. curve widening, s s diversifolia with E prum insulare, Mela Narrow strips at so onnected to bigge dside and edge ef al Creeper. Illy recorded can b choea semiplana ss acted zone. km: eater (sites 2, 53, 5 es 2, 42, 43) 2) ater (53, 57, 60-65 42, 43, 60-66) 50-66) 43, 60-66) ter (sites 42, 43, 5 ckatoo (sites 2, 42, 43)	cour repair work and show E. cosmophylla, +/- E. cnec aleuca halmaturorum, M. ome sites show higher lev er remnants on private pro- fects, worse within the firs re found in Appendix 1 an p tateana (State R) was p 77 and 60-66) 3, 57, 60-65) , 43, 60-66)	orifolia and an lanceolata, rels of operty. st 2-3m from
	•	Common Brushtail Pos Short-beaked Echidna	ssum (sites 2, 42, 4	-3)	
Landscape context score AMBERLEY	1.16	Vegetation Condition Score	46.08	Conservation significance score	1.14
Unit biodiversity Score	60.93	Area (ha)	0.0780	Total biodiversity Score	4.75
Landscape context score GANTHEUAME	1.11	Vegetation Condition Score	46.08	Conservation significance score	1.14
Unit biodiversity Score	58.30	Area (ha)	0.02	Total biodiversity Score	1.17

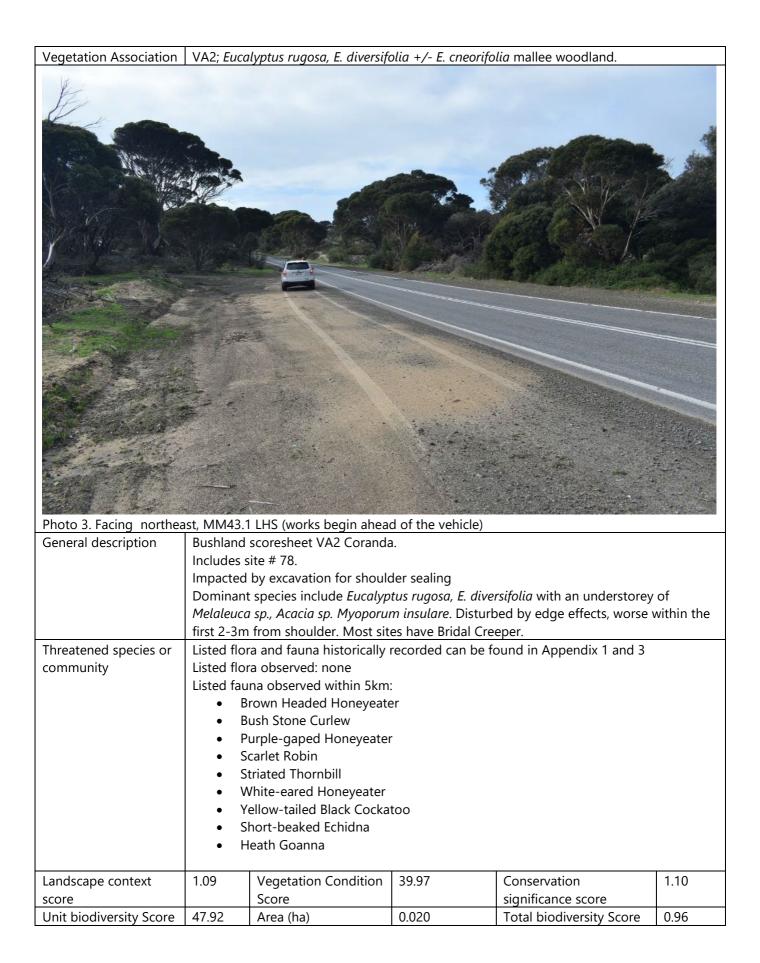
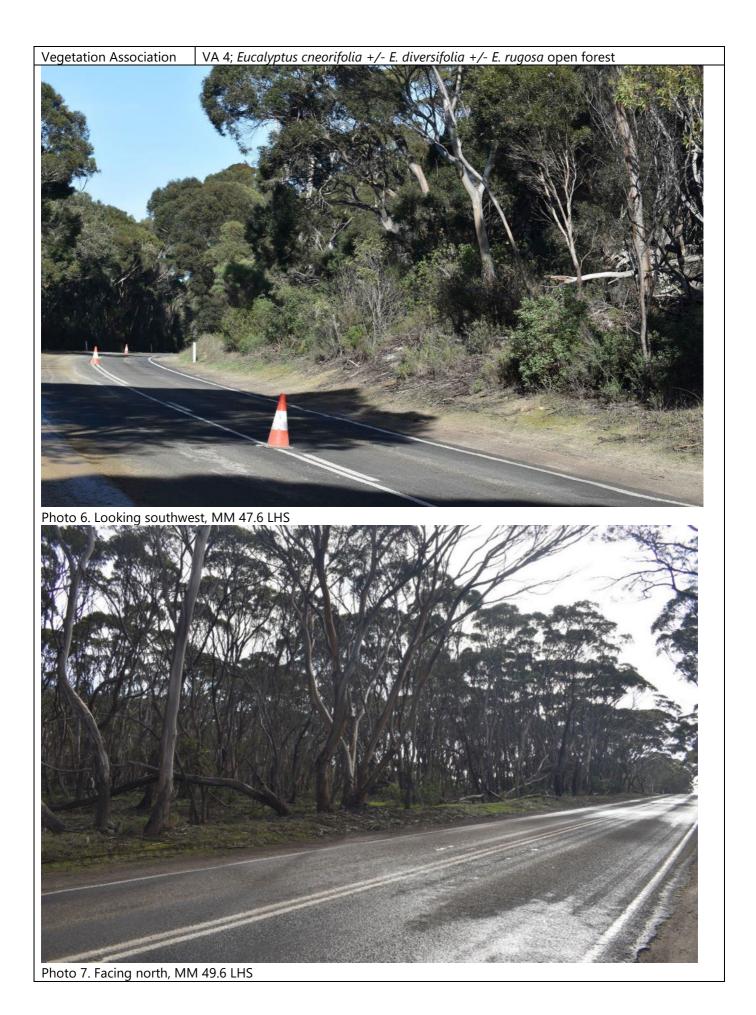




Photo 5. Looking south, MM 8.4 RHS

General description Threatened species or	Incudes site Impacted b shoulder w Dominant s angustissin edge effect	Bushland scoresheets VA3 Amberley; VA3 Coranda; VA3 Cygnet. Incudes sites # 6, 7, 11, 13-15, 32, 33, 50, 54 - 56, 80 – 82. Impacted by shoulder sealing, curve widening, culvert upgrade and excavation for shoulder works. Dominant species are <i>Eucalyptus cneorifolia, E. diversifolia,</i> with <i>Dodonaea viscosa ssp.</i> <i>angustissima, Myoporum insulare</i> and smaller shrubs in the understorey. Disturbed by edge effects, worse within the first 2-3m from shoulder. Most sites have Bridal Creeper. This community potentially meets the criteria for KI Mallee (<i>Eucalyptus cneorifolia</i>)						
community	 This community potentially meets the criteria for KI Mallee (<i>Eucalyptus cneorifolia</i>) Woodland EPBC CR rated, SA E rated community. Further investigation may be required to determine conformity. Listed flora and fauna historically recorded can be found in Appendix 1 and 3 Listed flora observed - none Listed fauna observed within 5km: Brown Headed Honeyeater (sites 6, 7, 11, 50, 54,-56, 80-82) Bush Stone Curlew (sites 6, 7, 11, 13-15, 32, 33, 50, 80 – 82) Peregrine Falcon (site 6, 7, 11, 13-15, 32, 33, 50, 80 – 82) Purple-gaped Honeyeater (sites 13-15, 32, 33, 50, 54 - 56) Scarlet Robin (sites 6, 7, 11, 13-15, 32, 33, 50, 80 – 82) Striated Thornbill (6, 7, 11, 13-15, 32, 33, 50, 54 - 56) Yellow-tailed Black Cockatoo (sites 6, 7, 11, 13-15, 32, 33, 50) Common Brushtail Possum (sites 6, 7, 11, 13-15, 32, 33, 50, 54 - 56, 80 – 82) 							
Landscape context score AMBERLEY	1.11	Vegetation Condition Score	38.95	Conservation significance score	1.50			
Unit biodiversity Score	64.85	Area (ha)	0.004	Total biodiversity Score	0.26			
Landscape context score CORANDA	1.12	Vegetation Condition Score	38.95	Conservation significance score	1.50			
Unit biodiversity Score	65.44							
Landscape context score	1.14	Vegetation Condition Score	38.95	Conservation significance score	1.50			
Unit biodiversity Score	66.60	Area (ha)	0.2515	Total biodiversity Score	16.75			



General description	Bushland scoresheet VA4 Coranda. Includes site # 83 - 89.					
	-		guard fence/h	azard removal, and excava	tion for	
	shoulder sealing Dominant species is <i>Eucalyptus cneorifolia, with E. diversifolia/E. rugosa</i> present at varying density across the sites. At some locations the understorey is fairly dense and includes <i>Melaleuca sp., Acacia sp. Myoporum insulare</i> . Other sites are almost devoid of understorey species. Disturbed by weeds and edge effects, but generally in good condition, with richer species complement further away from the road. Bridal Creeper present at some sites					
Threatened species or community	present at some sitesThis community potentially meets the criteria for KI Mallee (Eucalyptus cneorifolia)Woodland EPBC CR rated, SA E rated community. Further investigation may berequired to determine conformity.Listed flora and fauna historically recorded can be found in Appendix 1 and 3Listed flora observed: noneListed fauna observed within 5km:Brown Headed Honeyeater (sites 83 - 89)Bush Stone Curlew (sites 83 - 89)Scarlet Robin (sites 83 - 89)Striated Thornbill (sites 83 - 89)Short-beaked Echidna (sites 83 - 89)					
Landscape context score	1.10	Vegetation Condition Score	42.84	Conservation significance score	1.5	
Unit biodiversity Score	70.68	Area (ha)	0.303	Total biodiversity Score	21.42	

Vegetation Association VA 5; Eucalyptus cneorifolia, E. cosmophylla, E. diversifolia, mid mallee						
Photo 8. Looking south,						
General description	Include Impacte Domina shrubby fire, in f	y Melaleuca sp., Myoporum	dge guard fence rifolia, E. diversifo n insulare, and Leu	replacement <i>lia</i> equally, <i>E. cosmophylla</i> ov <i>icopogon parviflorus</i> . Disturbe ess disturbance. Bridal Creepe	ed by	
Threatened species or community	Woodla required Listed f Listed f associa	and EPBC CR rated, SA E d to determine conformity lora and fauna historically	rated community /. recorded can be <i>oea semiplana ssp</i> red zone. a: 36, 39 - 41) 5, 39) r (sites 36, 39 - 47 9 - 41) (sites 36, 39 - 41) (sites 36, 39 - 41) atoo (sites 36, 39 - 41) atoo (sites 36, 39 - 41) atoo (sites 36, 39 - 41)	- 41)	e	
Landscape context score	1.13	Vegetation Condition Score	36.90	Conservation significance score	1.54	



Photo 10. Facing northeast, MM 26.7 LHS

General description	Bushland scoresheet VA6. Includes sites # 3, 67 - 76 Impacted by shoulder sealing, culvert upgrade, and scour repair work. Dominant species include <i>Myoporum insulare, Leucopogon parviflorus</i> with emergent <i>E.</i> <i>diversifolia</i> . Limited disturbance evident, Bridal Creeper present at some sites.					
community	Listed f	 Listed flora and fauna historically recorded can be found in Appendix 1 and 3 Listed flora observed: none Listed fauna observed within 5km: Brown-headed Honeyeater (site 3) Bush Stone Curlew (site 3) Peregrine Falcon (site 3) Purple-gaped Honeyeater (sites 67-76) Scarlet Robin (sites 3, 67 - 76) Shy Heathwren (sites 67 - 76) Striated Thornbill (sites 67 - 76) 				
Landscape context score	1.08	Vegetation Condition Score	36.90	Conservation significance score	1.10	
Unit biodiversity Score	43.84	Area (ha)	0.0635	Total biodiversity Score	2.78	



Photo TT. Facing east, M	IVI 0.0 LHS					
General description	Bushland scoresheet VA7 Cygnet.					
	Includes sites # 4, 29, 30					
	Impacted by shoulder sealing.					
	Dominant species include Melaleuca halmaturorum, M. lanceolata.					
	Disturbance evident within first 2-3m from shoulder where grassy weeds predominate.					
	Bridal Creeper present at site 4.					
Threatened species or	Listed flora and fauna historically recorded can be found in Appendix 1 and 3					
community	Listed flora observed: none					
	Listed fauna observed within 5km:					
	Brown-headed Honeyeater (site 4)					
	Bush Stone Curlew (sites 4, 29, 30)					
	• Peregrine Falcon (sites 4, 29, 30)					
	 Purple-gaped Honeyeater (sites 29, 30) 					
	Striated Thornbill (sites 29, 30)					
	White-eared Honeyeater (sites 29, 30)					
	 Yellow-tailed Black Cockatoo (sites 4, 29, 30) 					
	 Common Brushtail Possum (sites 4, 29, 30) 					
	 Short-beaked Echidna (sites 4, 29, 30) 					
Landscape context	1.14	Vegetation	48.50	Conservation	1.10	
score		Condition Score		significance score		
Unit biodiversity Score	60.82	Area (ha)	0.0825	Total biodiversity Score	5.02	

Vegetation Association	VA 8; <i>Leuc</i> shrubland		learia axillaris, Myo	porum insulare, +/- Acad	cia leiophylla			
Photo 12. Looking towar	rd south, M	M 45.9 RHS						
General description		scoresheet VA8 Corar	ida.					
		Includes site # 79						
	Impacted by earthworks for shoulder sealing.							
		species include Leuco	-	Myoporum insulare.				
				oulder where grassy we	eds			
	predomin			5,				
Threatened species or	Listed flor	a and fauna historical	ly recorded can be	found in Appendix 1 and	13			
community		a observed - none		·				
Brown-headed HoneyeaterBush Stone Curlew								
								arlet Robin
		Striated Thornbill White pared Uppervector						
		White-eared HoneyeaterShort-beaked Echidna (sites						
 Short-beaked Echidna (sites Heath Goanna 								
Landscapa contaxt	1 1 2	Vegetation	45.94	Conservation	1.10			
Landscape context score	1.12	Vegetation Condition Score	43.94	significance score	1.10			
Unit biodiversity Score	56.60	Area (ha)	0.07	Total biodiversity	3.96			
Shir biodiversity Score	50.00		0.01	Score	5.50			
	I	I	1	00010	1			



Photo 14. Viewed towards west, MM 4.5 RHS

General description Threatened species or community	Most of the often no m 90). Dominant s the ground Some sites Overstorey shoulder ar Taylor (200 plant com <i>brevifolia, s</i> investigatio Listed flora Listed flora Listed flora association Listed flora association Listed flora Sociation Sociation Sociation Sociation Listed flora Sociation Listed flora Sociation Listed flora Sociation Listed flora Sociation Listed flora Sociation Listed flora Sociation Listed flora Sociation Listed flora Sociation Listed flora Sociation Soc	 Dominant species is <i>Melaleuca halmaturorum</i>, with Samphire and succulent species in the ground layer Some sites highly disturbed by historical culvert maintenance, hydrological changes. Overstorey density varies between sites. Weeds predominate on the edge of the shoulder and around culvert heads. Bridal Creeper present at many sites Taylor (2008)³ lists <i>Melaleuca brevifolia / M. gibbosa +/- M. halmaturorum</i> as a Rare plant community on KI, and Cooling (2020)⁴ notes that <i>Melaleuca halmaturorum / M. brevifolia, shrubland over samphire</i> is Vulnerable under the EPBC Act. Further investigation may be required to confirm the status of the community assessed. Listed flora and fauna historically recorded can be found in Appendix 1 and 3 Listed flora observed <i>– Beyeria subtecta</i> (EPBC VU and State V) was present in the association. Impact on one individual is likely. Listed fauna observed within 5km: Brown-headed Honeyeater (sites 1, 5, 8-10, 12, 49, 51, 52, 58, 59, 90) Bush Stone Curlew (sites 1, 5, 8-10, 12, 16-28, 31, 34, 35, 37, 38, 44 - 49, 51, 52, 58, 59) Scarlet Robin (sites 5, 8-10, 12, 16-28, 31, 34, 35, 37, 38, 44 - 49, 51, 52, 58, 59) Striated Thornbill (sites 1, 5, 8-10, 12, 16-28, 31, 34, 35, 37, 38, 44 - 49, 51, 52, 58, 59) Vellow-tailed Black Cockatoo (sites 1, 5, 8-10, 12, 16-28, 31, 34, 35, 37, 38, 44 - 49, 51, 52, 58, 59) Yellow-tailed Black Cockatoo (sites 1, 5, 8-10, 12, 16-28, 31, 34, 35, 37, 38, 44 - 49, 51, 52, 58, 59) Common Brushtail Possum (sites 1, 5, 8-10, 12, 16-28, 31, 34, 35, 37, 38, 44 - 49, 51, 52, 58, 59) 						
Landscape context score AMBERLEY	1.11	Vegetation Condition Score	48.50	Conservation significance score	1.61			
Unit biodiversity Score	86.67	Area (ha)	0.0135	Total biodiversity Score	1.17			
Landscape context score CYGNET	1.12	Vegetation Condition Score	48.50	Conservation significance score	1.61			
Unit biodiversity Score	87.45	Area (ha)	0.0585	Total biodiversity Score	3.94			

³ Taylor, D. A (2008) Recovery Plan for Nationally threatened Plant Species on Kangaroo Island, South Australia. Department of Environment and Heritage SA.

⁴ Ecological Associates Pty Ltd (Marcus Cooling) (2020) Native Vegetation Clearance, Kangaroo Island Pipeline Stage 1 Data Report (unpublished)

4.2 Threatened Species assessment

Results of review of existing records

Databases interrogated to determine threatened fauna recorded within 5km of the site(s), since 1995 provided the following results:

- fifty four bird species (7 highly likely or known; 8 possible; and 3 not likely to find habitat at the sites)
- five mammal species (2 highly likely/known; 1 possible, 1 not likely)
- four reptile species (1 highly likely/known, 3 not likely)
- no amphibian species

The following table documents threatened species historically recorded, or noted during the survey, with potential to find habitat in the vegetation assessed.

Table 2: Threat rated bird species observed on site, or recorded within 5km of the application area since 1995, or for which the vegetation is considered to provide suitable habitat.

COMMON NAME	SPECIES	EPBC Act	NPW Act SA	NUMBER OF RECORDS (BDBSA)	DATE OF LAST RECORD (BDBSA)	Source	Main Habitat	LIKELIHOOD ASSESSMENT AND JUSTIFICATION
Australasian Bittern	Botaurus poiciloptilus	EN			1-Jan- 1984	2	wetland	Unlikely – no suitable habitats present along proposed route.
Australasian Shoveler	Spatula rhynchotis		R	2	23-Feb- 2010	1	water bird	Unlikely – no suitable habitats present along proposed route.
Australian Fairy Tern	Sternula nereis nereis	VU			12-Nov- 2011	2	shorebird	Unlikely – no suitable habitats present along proposed route.
Banded Stilt	Cladorhynchus leucocephalus		V	14	06-Feb- 2005	1	water bird	Unlikely – no suitable habitats present along proposed route.
Bar-tailed Godwit	Limosa lapponica baueri	VU	R	37	06-Jun- 2010	1, 2	migratory shorebird	Unlikely – no suitable habitats present along proposed route.
Beautiful Firetail (MLR, KI)	Stagonopleura bella samueli	of concern	R	2	30-Nov- 2012	1	dense, low undergrowth with water nearby	Possible – particularly in dense vegetation along drainage line intersections with road, but not recorded during field survey
Black Falcon	Falco subniger		R	1	18-Feb- 2013	1	open arid & semi arid plains with scattered trees	Unlikely – considered vagrant on Kangaroo Island (Gillam & Urban 2014) ⁵
Black-browed Albatross	Thalassarche melanophris	VU	ssp	1	08-May- 1982	1	oceanic	Will not be present – offshore, marine species
Black-tailed Godwit	Limosa limosa melanuroides		R	1	07-Feb- 2010	1	migratory shorebird	Unlikely – no suitable habitats present along proposed route.

⁵ Gillam, S. and Urban, R. (2014) *Regional Species Conservation Assessment Project, Phase 1 Report: Regional Species Assessments, Kangaroo Island NRM Region.* Department of Environment, Water and Natural Resources, South Australia.

COMMON NAME	SPECIES	EPBC Act	NPW Act SA	NUMBER OF RECORDS (BDBSA)	DATE OF LAST RECORD (BDBSA)	Source	Main Habitat	LIKELIHOOD ASSESSMENT AND JUSTIFICATION
Brown Quail	Coturnix ypsilophora australis		V	1	07-Jul- 2013	1	variety of low, damp, rank vegetation	Unlikely – no suitable habitats present along proposed route. Also very rare on KI, with nearest of four records for the island, at Kingscote
Brown- headed Honeyeater (KI)	Melithreptus brevirostris magnirostris	EN		5	17-Nov- 1990	1, 2, 3	forests & woodlands	Highly Likely/Known – recorded at four of 20 survey sites; three of tall mallee woodland and one mature Callitris woodland
Bush Stone- curlew	Burhinus grallarius		R	61	19-Sep- 2021	1	woodland, grassland	Possible - woodland edge habitats may provide suitable daytime rest spots. Heard in distance at night at three of 20 sample sites
Common Sandpiper	Actitis hypoleucos		R	6	06-Feb- 2005	1	migratory shorebird	Unlikely – no suitable habitats present along proposed route
Curlew Sandpiper	Calidris ferruginea	CR	E	16	16-Feb- 1985	1, 2	migratory shorebird	Unlikely – no suitable habitats present along proposed route
Eastern Osprey	Pandion haliaetus cristatus		E	4	05-Nov- 1990	1	coastal, estuarine, wetland	Unlikely - may fly over occasionally, but proposed route does not provide any significant habitat
Fairy Prion	Pachyptila turtur subantarctica	VU				2	oceanic	Will not be present – offshore, marine species
Far Eastern Curlew	Numenius madagascariensis	CR	E	48	10-Feb- 2012	1, 2	migratory shorebird	Unlikely – no suitable habitats present along proposed route
Flame Robin	Petroica phoenicea		V	1	01-Jan- 1976	1	woodlands & forest	Unlikely – considered vagrant on Kangaroo Island (Gillam & Urban 2014)
Freckled Duck	Stictonetta naevosa		V	1	09-Feb- 2003	1	water bird	Unlikely – no suitable habitats present along proposed route
Glossy Black- Cockatoo (KI)	Calyptorhynchus lathami halmaturinus	EN	E	6	13-Mar- 2019	1, 2	woodlands & forest	Possible - could pass through the roadside woodlands, but required habitat attributes, particularly large nesting hollows and Allocasuarina food trees not present along route
Great Knot	Calidris tenuirostris	CR	E	1	13-Nov- 2011	1	migratory shorebird	Unlikely – no suitable habitats present along proposed route

COMMON NAME	SPECIES	EPBC Act	NPW Act SA	NUMBER OF RECORDS (BDBSA)	DATE OF LAST RECORD (BDBSA)	Source	Main Habitat	LIKELIHOOD ASSESSMENT AND JUSTIFICATION
Greater Sand Plover	Charadrius leschenaultii leschenaultii	sp	R	7	30-Nov- 2012	1, 2	migratory shorebird	Unlikely – no suitable habitats present along proposed route
Grey Currawong	Strepera versicolor		ssp	6	24-Oct- 2020	1	woodlands & forests	Not relevant - not KI sub species, but far western sub species
Grey-headed Albatross	Thalassarche chrysostoma	EN	V	1	03-Sep- 1968	1	oceanic	Will not be present – offshore, marine species
Grey-tailed Tattler	Tringa brevipes		R	7	09-Jan- 1996	1	migratory shorebird	Unlikely – no suitable habitats present along proposed route
Hooded Plover	Thinornis cucullatus cucullatus	VU	V	92	17-Nov- 2014	1, 2	coastal	Unlikely – no suitable habitats present along proposed route
Indian Yellow- nosed Albatross	Thalassarche carteri	VU	E	1	21-Aug- 1982	1,	oceanic	Will not be present – offshore, marine species
Lesser Sand Plover	Charadrius mongolus mongolus	sp	E	1	13-Oct- 1994	1	migratory shorebird	Unlikely – no suitable habitats present along proposed route
Lewin's Rail	Lewinia pectoralis pectoralis		V	1	21-Apr- 2005	1	wetland	Unlikely – no suitable habitats present along proposed route
Little Egret	Egretta garzetta nigripes		R	8	30-Nov- 2012	1	water bird	Unlikely – no suitable habitats present along proposed route
Little Wattlebird (KI)	Anthochaera chrysoptera halmaturina	VU		6	10-Apr- 2017	1, 2	woodlands, forest, Banksia heathlands & gardens	Possible- but not recorded during field survey work
Musk Duck	Biziura lobata menziesi		R	10	30-Nov- 2012	1	water bird	Unlikely – no suitable habitats present along proposed route
Northern Giant Petrel	Macronectes halli	VU		1	01-Jul- 1982	1, 2	oceanic	Unlikely – no suitable habitats present along proposed route

COMMON NAME	SPECIES	EPBC Act	NPW Act SA	NUMBER OF RECORDS (BDBSA)	DATE OF LAST RECORD (BDBSA)	Source	Main Habitat	LIKELIHOOD ASSESSMENT AND JUSTIFICATION
Pacific Golden Plover	Pluvialis fulva		R	7	16-Feb- 1985	1	migratory shorebird	Unlikely – no suitable habitats present along proposed route
Pacific Reef Heron	Egretta sacra sacra		R	5	10-Feb- 2012	1	shorebird	Unlikely – no suitable habitats present along proposed route
Peregrine Falcon	Falco peregrinus macropus		R	2	01-Jan- 1987	1	diverse; rainforest to arid shrublands	Possible – but habitats along proposed route do not provide critical nesting opportunities of cliffs or large trees. Wide ranging species with large territory, seen flying overhead at one of 20 survey sites.
Pied Oystercatcher	Haematopus longirostris		R	154	17-Nov- 2014	1	shorebird	Unlikely – no suitable habitats present along proposed route
Purple-gaped Honeyeater	Lichenostomus cratitius	of concern	ssp	6	11-Apr- 2017	1, 3	Mallee woodlands with shrubby understorey	Highly Likely/Known – recorded in mallee woodland at four of 20 survey sites. Mainland sub species is Rare, but KI sub species is considered "of concern" by Birdlife Australia
Red Knot (ssp. rogersi)	Calidris canutus rogersi	EN	E	4	13-Nov- 2011	1, 2	migratory shorebird	Unlikely – no suitable habitats present along proposed route
Restless Flycatcher	Myiagra inquieta		R	3	10-Apr- 2017	1	open forest, woodland, farmland	Possible - but not recorded during field survey
Rock Parrot	Neophema petrophila zietzi		R	1	30-Nov- 2012	1	coastal	Unlikely – no suitable habitats present along proposed route
Ruddy Turnstone	Arenaria interpres interpres		R	11	11-Feb- 2012	1	migratory shorebird	Unlikely – no suitable habitats present along proposed route
Sanderling	Calidris alba alba		R	7	05-Mar- 1986	1	migratory shorebird	Unlikely – no suitable habitats present along proposed route
Scarlet Robin	Petroica boodang boodang		R	18	19-Sep- 2021	1, 3	woodlands & forests	Highly Likely/Known – recorded at five of 20 survey sites, in variations of mallee woodland, Callitris woodland and tall open Melaleuca shrubland

COMMON NAME	SPECIES	EPBC Act	NPW Act SA	NUMBER OF RECORDS (BDBSA)	DATE OF LAST RECORD (BDBSA)	Source	Main Habitat	LIKELIHOOD ASSESSMENT AND JUSTIFICATION
Shy Heathwren	Hylacola cauta	VU	R	1	26-Oct- 2016	1, 2, 3	mallee & coastal thickets	Highly Likely/Known – heard calling at one of 20 survey sites, in dense coastal shrubland
Sooty Oystercatcher	Haematopus fuliginosus fuliginosus		R	76	20-Dec- 2016	1	shorebird	Unlikely – no suitable habitats present along proposed route
South Australian Bassian Thrush	Zoothera lunulata halmaturina	VU	R			2	woodlands & forest with dense canopy, open understorey and deep litter	Possible -, but not recorded during field survey. Can be difficult to detect due to its quiet nature, slow movement and effective camouflage
Striated Thornbill (KI)	Acanthiza lineata whitei	VU		14	09-Apr- 2017	1, 2, 3	Eucalypt forests & woodlands	Highly Likely/Known – recorded at five of 20 survey sites, all of which were mallee (Eucalypt woodland) habitats
Whimbrel	Numenius phaeopus variegatus		R	8	06-Feb- 2011	1	migratory shorebird	Unlikely – no suitable habitats present along proposed route
White-bellied Sea Eagle	Haliaeetus leucogaster		E	7	15-Oct- 2015	1	wetlands, coastal	Unlikely - may fly over occasionally, but proposed route does not provide any significant habitat
White-bellied Whipbird (KI)	Psophodes leucogaster lashmari	EN	R	1	05-Oct- 2021	1, 2	dense heath & mallee with thick litter	Possible – particularly in areas of dense coastal vegetation near Prospect Hill at the southern end of Pelican Lagoon, but was not recorded during field survey
White-eared Honeyeater (KI)	Nesoptilotis leucotis thomasi	EN		3	07-Nov- 1990	1, 2, 3	forest, woodland, heathland	Highly Likely/Known – recorded at six of 20 survey sites, most in mallee with dense understory, but also in mature Callitris woodland with open understorey
Wood Sandpiper	Tringa glareola		R	1	23-Feb- 2010	1	migratory shorebird	Unlikely – no suitable habitats present along proposed route
Yellow-tailed Black Cockatoo	Zanda funerea whiteae		V	11	19-Sep- 2021	1,3	forest, woodlands	Known – recorded as seen or heard flying overhead at 5 of 20 survey sites

Source 1 = Biodiversity Data Base of South Australia (BDBSA); 2 = EPBC Act Protected Matters Report, created 22/4/2022; 3 = observed/recorded in the field. Key to conservation codes: CR = Critically Endangered, EN, E = Endangered, VU, V = Vulnerable, R = Rare

Table 3: Threat rated mammal species observed on site, or recorded within 5km of the application area since 1995, or for which the vegetation is considered to provide suitable habitat.

COMMON NAME	SPECIES	EPBC Act	NPW Act SA	NUMBER OF RECORDS (BDBSA)	DATE OF LAST RECORD (BDBSA)	Source	Main Habitat	LIKELIHOOD ASSESSMENT AND JUSTIFICATION
Common Brushtail Possum	Trichosurus vulpecula		R	33	13-Apr- 2017	1	forest, woodland, mallee	Highly Likely/Known - multiple records during field survey, including seven fresh roadkills and two seen while spotlighting; also recorded at two of 20 survey sites, one spotlighting and one by roadkill remains. In the absence of foxes on KI, this possum is able to occupy all habitats and is most often seen on the ground, rather than arboreal habitats as on the mainland
Short-beaked Echidna (KI)	Tachyglossus aculeatus multiaculeatus	EN	E	19	06-Jun- 2020	1, 2	forest, woodland, mallee	Highly Likely/Known - in most habitats. Fresh or recent diggings recorded at 12 of 20 survey sites
Southern Brown Bandicoot (SA mainland and KI)	Isoodon obesulus obesulus	EN	V	60	13-Jul- 2017	1, 2	forest, woodland, shrublands, with dense understorey	Possible - in areas of denser ground cover, but not recorded during field survey, including no sign of characteristic diggings. There are numerous records in other nearby areas of the Dudley Peninsula.
Southern Right Whale	Eubalaena australis	EN				2	oceanic	Will not be present – offshore, marine species
Australian Sea-lion	Neophoca cinerea	EN				2	coastal marine	Unlikely – no suitable habitats present along proposed route

Source 1 = Biodiversity Data Base of South Australia (BDBSA); 2 = EPBC Act Protected Matters Report, created 22/4/2022.

Key to conservation codes: CR = Critically Endangered, EN, E = Endangered, VU, V = Vulnerable, R = Rare

Table 4: Threat rated reptile species observed on site, or recorded within 5km of the application area since 1995, or for which the vegetation is considered to provide suitable habitat.

COMMON NAME	SPECIES	EPBC Act	NPW Act SA	NUMBER OF RECORDS (BDBSA)	DATE OF LAST RECORD (BDBSA)	Source	Main Habitat	LIKELIHOOD ASSESSMENT AND JUSTIFICATION
Heath Goanna	Varanus rosenbergi		V	17	19-Sep- 2021	1	mallee, woodland, heathland	Likely – difficult to determine at the time of year the field survey was undertaken (June) as reptiles are largely inactive, but two old burrows were seen at one survey site, and an old roadkill located just outside Kingscote
Leatherback Turtle	Dermochelys coriacea	EN	V	1	01-Jan- 1994	1, 2	oceanic	Will not be present – offshore, marine species
Loggerhead Sea Turtle	Caretta caretta	EN	E	1	01-Apr- 1975	1, 2	oceanic	Will not be present – offshore, marine species
Tiger Snake	Notechis scutatus	ssp		5	26-Mar- 2017	1		Not relevant - not KI sub species, but southern Flinders Ranges race

Source 1 = Biodiversity Data Base of South Australia (BDBSA); 2 = EPBC Act Protected Matters Report, created 22/4/2022. Key to conservation codes: CR = Critically Endangered, EN, E = Endangered, VU, V = Vulnerable, R = Rare

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

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.

4.3 Cumulative impact

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.),
 These impacts have been included in the total impact for the upgrade site. Stack sites are yet to be nominated but potential sites, with minimal or degraded native vegetation present, have been reviewed as a preliminary action.
- subsequent clearance that will be permitted or required (e.g. 10m around a building, 20m around a dwelling, clearance for fire protection),

Not applicable to this type of development.

- 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 such impacts have been included in the assessment. Environmental management methods will be employed during construction to minimise these impacts.,

future stages or associated components of a development,
 The project is part of an upgrade of the length of the Hog Bay Road from Playford Highway near Kingscote,
 to Penneshaw. Other parts include an overtaking lane (no native vegetation impacts), and junction upgrade
 subject to a separate vegetation assessment (in progress).

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

Sites for safety upgrades are prioritized based on results of road safety audits and road crash history data. In many cases, there is minimal scope for amendments or alternatives as standards for design and safety need to be adhered to.

The cryptic nature of tree root systems makes it difficult to predict impact, and so an overestimate of impacts is usually recorded in order to adequately account for and offset potential impacts. It is likely that some of the vegetation included in the impacts tally will not suffer any detrimental impact. Everything has been done to ensure potential impacts are included in this assessment.

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).

The works are programmed to occur where justified by road safety audits and crash data. There is limited scope for amendments or alternatives. Guard rail is proposed for sites to protect high value vegetation, which would otherwise be required to be removed to achieve road safety standards.

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. This is not an option at the development site; however, the appropriate SEB offset will be provided.

 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 appropriate SEB offset requirement will be met, in this case via a payment into the Native Vegetation 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	Considerations
clearance	
Principle 1a -	Relevant information
it comprises a	VA1: Native species – 32, Introduced species – 11
high level of	Bushland Plant Diversity Score – 24
diversity of	VA2: Native species – 29, Introduced species – 7
plant species	Bushland Plant Diversity Score – 24
FF	VA3: Native species – 34, Introduced species – 7
	Bushland Plant Diversity Score – 24
	VA4: Native species – 18, Introduced species – 5
	Bushland Plant Diversity Score – 21
	VA5: Native species – 17, Introduced species – 8
	Bushland Plant Diversity Score – 21
	VA6: Native species – 16, Introduced species – 6
	Bushland Plant Diversity Score – 21
	VA7: Native species – 17, Introduced species – 8
	Bushland Plant Diversity Score – 24
	VA8: Native species – 17, Introduced species – 6
	Bushland Plant Diversity Score – 21
	VA9: Native species – 19, Introduced species – 8
	Bushland Plant Diversity Score – 24
	Assessment against the principles
	Seriously at Variance
	VA1, VA2, VA3, VA4, VA5, VA6, VA7, VA8 and VA9
	<u>At Variance</u>
	N/A
	Moderating factors that may be considered by the NVC
	The areas of clearance proposed for each impacted site is between 0.02 ha (VA2) and 0.336 ha
	(VA3); a relatively small area comprising <0.25% of the total of each vegetation association.
Principle 1b -	Relevant information
significance	Threatened fauna species that were recorded or may use the vegetation are listed in Part 4.2
as a habitat	above, and in Appendix 1.
for wildlife	
	With 11 threatened species observed within 5km of the impacted sites (Brown-headed
	Honeyeater, Purple-gaped Honeyeater, White-eared Honeyeater, Scarlet Robin, Shy Heathwren,
	Striated Thornbill, Yellow-tailed Black-cockatoo, Peregrine Falcon, Common Brushtail Possum,
	Short-beaked Echidna and Heath Goanna), and 8 possibly finding suitable habitat at the sites
	assessed (Beautiful Firetail, Bush Stone-curlew, Glossy Black Cockatoo, Little Wattlebird, Restless
<u> </u>	assessed (bedutindi Firetali, basii stone editew, Glossy black cockatoo, Entite Wattiebird, Resitess

Flycatcher, SA Bassian Thrush, White-bellied Wh	
habitat across the range of vegetation associati	ons is important for threatened species.
Sixty two fauna species were observed during the	he field survey (see Appendix 2), including 12
	distance). Although these were observed across
different habitats, this is considered a high dive	5
Most of the sites are connected to other remna	
	this is particularly important for escape from fire
events.	
VA1 Amberley IBRA	VA5 Amberley IBRA
Threatened Fauna Score – 0.1	Threatened Fauna Score – 0.1
Unit biodiversity Score – 60.93	Unit biodiversity Score – 64.21
VA1 Gantheaume IBRA	VA6 Gantheaume IBRA
Threatened Fauna Score – 0.1	Threatened Fauna Score – 0.1
Unit biodiversity Score – 58.30	Unit biodiversity Score – 43.84
VA2 Coranda IBRA	VA7 Cygnet IBRA
Threatened Fauna Score – 0.1	Threatened Fauna Score – 0.1
Unit biodiversity Score – 47.92	Unit biodiversity Score – 60.82
VA3 Amberley IBRA	VA8 Coranda IBRA
Threatened Fauna Score – 0.1	Threatened Fauna Score – 0.1
Unit biodiversity Score – 64.85	Unit biodiversity Score – 56.60
VA3 Coranda IBRA	-
Threatened Fauna Score – 0.1	VA9 Amberley IBRA
Unit biodiversity Score – 65.44	Threatened Fauna Score – 0.1
VA3 Cygnet IBRA	Unit biodiversity Score – 86.67
Threatened Fauna Score – 0.1	VA9 Cygnet IBRA
Unit biodiversity Score – 66.60	Threatened Fauna Score – 0.1
VA4 Coranda IBRA	Unit biodiversity Score – 87.45
Threatened Fauna Score – 0.1	
Unit biodiversity Score – 70.68	
Assessment against the principles	
Seriously at Variance	
With a threatened fauna score of 0.1 for each ve	egetation association, all VA's 1-9 are SAV
In addition, VA 1, 3, 4, 5, 7, 8 and 9 have a UBS	-
<u>At Variance</u> –	
N/A	
Moderating factors that may be considered by	
	potentially impacted across the whole project site
is only 1.1145ha. Given the project is 52 km long	
vegetation impacted at each site. The greatest v	
	smallest, 0.5m. Areas around culvert heads were
usually less than 5m ² .	
Non-essential habitat – although several threate	
observed in the first few metres of road reserve	vegetation, but more often present in larger

	remnants adjacent, but distant from the road. The part of road reserve impacted is unlikely to constitute essential habitat for threatened species.
Principle 1c - plants of a rare, vulnerable or	Relevant information Threatened flora species that were recorded or may use the vegetation are listed in Part 4.2 above, and in Appendix 3.
endangered species	The list includes several species which were not detectable during the period of survey – including Orchid species - or where distinguishing features were not present for species identification, such as grasses. It is possible that some of the more cryptic or annual species are present at some of the sites, however the likelihood of such occurring in the first metre or two of road reserve vegetation is considered low. Listed grass specie may well be present at some sites.
	Plant species that are recorded in the area and which may be present but due to dormancy, or lack of identifying features, were not observed, include: <i>Caladenia ovata</i> – EPBC VU, State R
	Caladenia reticulata – State R
	Caladenia sanguinea – State R
	Pterostlis melagramma – State E Austrostipa dendiflora – State R
	Austrostipa multispiculis – State R
	The following threatened species were recorded on site: <i>Beyeria subtecta</i> (Kangaroo Island Turpentine Bush – EPBC VU, State E), present in VA9 at site 58. One individual may be impacted by works, with negligible impact on the population. <i>Xanthorrhoea semiplana ssp tateana</i> (Tate's Grass Tree – State R), present in VA1 and VA5 at sites 41, 42 and 43. The plants were outside the area of impact.
	Threatened Flora Score(s); VA2, VA3, VA4, VA6, VA7, VA8 = 0. VA1, VA5 = 0.04 VA9 = 0.16
	Assessment against the principles
	Seriously at Variance VA9 is SAV
	<u>At Variance</u> –
	VA1, VA5 is at variance
	<u>Moderating factors that may be considered by the NVC</u> Impact significance – the amount of vegetation potentially impacted across the whole project sit is one single plant. This will not have a significant impact on the durability of the population.
	<i>Number of plants to be cleared</i> – a single Beyeria subtecta is likely to be impacted. Transplanting is a possibility.
Principle 1d -	Relevant information
vegetation	Vegetation Associations xxx potentially meet criteria for the EPBC Critically Endangered Kangaro
comprises the	Island Narrow-leaved Mallee Woodland plant community, and the DEH Endangered Eucalyptus
whole or	cneorifolia, E. rugosa Mallee over Rhagodia candolleana community.
part of a	
plant	Threatened Community Score –
community	VA 1, 2, 6, 7 and 8 = 1
that is Rare, Vulnerable or endangered:	VA 3, 4 and 5 = 1.4 VA 9 = 1.34

	Assessment against the principles
	Seriously at Variance
	VA3, VA4, VA5, and VA9
	Moderating factors that may be considered by the NVC
	<i>Impact significance</i> – the amount of vegetation potentially impacted across the threatened communities is 0.8115ha, with VA3 = 0.0336ha; VA4 = 0.303ha; VA5 = 0.114 ha; VA9 = 0.0585ha (comprising largely small patches at culverts).
	Area of Impact – the area equates to less than 1% within the immediate vicinity overall.
	<i>Condition of the vegetation</i> – whilst the broader association is in good condition without disturbance from rabbits, the impacted vegetation is confined to road reserve, and mostly to the first 1-2m where degradation is at its highest with weed infiltration and other disturbances prevalent.
Principle 1e - it is	Relevant information
significant as	Cygnet IBRA Association remnancy – 27%
a remnant of vegetation in	Total Biodiversity Score – 25.71 (combined scores of all sites within Cygnet IBRA)
an area which	Amberley IBRA Association remnancy – 21%
has been	Total Biodiversity Score – 13.50 (combined scores of all sites within Amberley IBRA)
extensively	
cleared.	Gantheaume IBRA Association remnancy – 88% Total Biodiversity Score – 2.59 (combined scores of all sites within Gantheaume IBRA)
	Coranda IBRA Association remnancy – 28% Total Biodiversity Score – 31.61 (combined scores of all sites within Coranda IBRA)
	Kangaroo Island IBRA Subregion remnancy – 52% Total Biodiversity Score – 71.41 (combined scores of all sites)
	Due largely to the absence of rabbits, the vegetation assessed is in good condition with high relative diversity. Much of it is continuous with larger remnants, increasing its value as potential habitat for threatened species, and its potential for longevity.
	Vegetation on road reserves is an important contributor to the cohesiveness of remnant vegetation on this part of the Island. Where the road reserve is relatively narrow and more fragmented (approximate MM's 1-6, 13.5 – 18, 19 – 24.5, 29 – 34, and 42 – 46) the potential impact of threats become more significant (edge effects, feral animals/birds, weed invasion, damage from road maintenance and improvement).
	The presence of feral deer, pigs and goats are a potential threat to the health and longevity of remnants. Weed invasion is also of concern, and a significant threat is the presence of Bridal Creeper, which was found in almost all sites assessed. At the time of survey, new growth was beginning, not an accurate indication of the total density of this weed likely at peak season.
	The potential for spreading Phytophthora threatens the health and continuity of the vegetation. Suitable hygiene practices are to be employed for construction works in accordance with the DIT SOP.
	Assessment against the principles Seriously at Variance
	At the Local level, sites 3, 65-70 are SAV. At the Regional level, all sites are SAV

	<u>At Variance</u>
	All remaining sites not included above
	Moderating factors that may be considered by the NVC
	Impact significance
	Sites in VA3, VA4, VA5 and VA9 are (potentially) within EPBC listed plant communities
Principle 1f -	Relevant information
•	
it is growing	
in, or in	Sites in VA9, including almost all culvert upgrade sites, are associated with drainage lines, into
association	which most ultimately drain, and/or samphire/saltmarsh wetlands.
with, a	
wetland	Stream orders of bridge and road verge sites associated with creeks are:
environment.	MM 9.05, Site 36, Stream Order 1;
	MM10.05 – 10.8, Site 41, Stream Order 2;
	MM 43.1, Site 78, adjacent Stream Order 4 (Deep Creek); and
	MM 52, Site 90, Stream Order 3.
	The amount of impact likely at culvert sites ranges from 5m ² to 20m ² , whilst total impact,
	including culvert sites, associated with wetlands in VA9 is 0.0585ha. It is not considered that the
	proposed clearance at numerous small sites which are already disturbed, will have a significant
	impact on hydrology or water quality.
	Assessment against the principles
	Seriously at Variance
	N/A – impact is not considered significant
	Moderating factors that may be considered by the NVC
	N/A
Principle 1g -	Relevant information
it contributes	The proposed impact includes sites which are all highly visible to the travelling public and locals.
significantly	The road is the main tourist, freight and commercial route from the mainland to the rest of KI
to the	and is thus highly trafficked.
amenity of	
the area in	Vegetation clearance is minimal and consists of usually less than 1m from the shoulder along
which it is	relatively short lengths, and is considered unlikely to be noticed once complete, by most people.
growing or is	However, given the high profile of the EPBC rated community coming into/out of Penneshaw
situated.	around MM 46 – MM 50, it is likely that these works will be subject to intense public interest.
	N/A
	Moderating factors that may be considered by the NVC
	N/A
	· ·

4.6 Risk Assessment

Determine the level of risk associated with the application

Total	No. of trees	N/A
clearance	Area (ha)	1.1455
	Total biodiversity Score	74.77
Seriously at va	ariance with principle	(b), (c), (d)
1(b), 1(c) or 1	(d)	
Risk assessme	nt outcome	Level 4

5. Clearance summary

Clearance Area(s) Summary table

Block	Sites	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 Amberley	2, 42, 43, 53, 57, 60 - 64	24	1	0.04	0.1	60.93	0.078	4.75	1	0	0	4.99	3,383.71	186.10
VA1 Gantheaume	65, 66	24	1	0.04	0.1	58.30	0.02	1.17	1	0	0	1.22	838.41	46.11
VA2 Coranda	78	24	1	0	0.1	47.92	0.02	0.96	1	0	0	1.01	701.19	38.57
VA3 Amberley	50, 54, 55, 56	24	1.4	0	0.1	64.85	0.004	0.26	1	0	0	0.27	182.87	10.06
VA3 Coranda	80, 81, 82	24	1.4	0	0.1	65.44	0.0805	5.27	1	0	0	5.53	3,713.46	204.24
VA3 Cygnet	6, 7, 11, 13 - 15, 32, 33	24	1.4	0	0.1	66.60	0.2515	16.75	1	0	0	17.59	11,808.86	649.49
VA4 Coranda	83 - 89	21	1.4	0	0.1	70.68	0.303	21.42	1	0	0	22.49	17,534.04	964.37
VA5 Amberley	36, 39 - 41	21	1.4	0.04	0.1	64.21	0.114	7.32	1	0	0	7.69	5,057.76	278.18
VA6 Gantheaume	3, 67 - 76	21	1	0	0.1	43.84	0.0635	2.78	1	0	0	2.92	2,138.29	117.61
VA7 Cygnet	4, 29, 30	24	1	0	0.1	60.82	0.0825	5.02	1	0	0	5.27	3,346.92	184.08
VA8 Coranda	79	21	1	0	0.1	56.60	0.07	3.96	1	0	0	4.16	2,943.32	161.88
VA9 Amberley	37, 38, 44 – 49, 51, 52, 58, 59, 90	24	1.35	0.16	0.1	86.67	0.0135	1.17	1	0	0	1.23	846.23	46.54
VA9 Cygnet	1, 5, 8 – 12, 16 – 28, 31, 34, 35	24	1.35	0.16	0.1	87.45	0.045	3.94	1	0	0	4.13	2,829.61	155.63
						Total	1.1455	74.77				78.50	\$55,324.67	\$3,042.86

Totals summary table

	Total Biodiversity score	Total SEB points required	SEB Payment	Admin Fee	Total Payment
Application	74.77	78.50	\$55,324.67	\$3,042.86	\$58,367.53

Economies of Scale Factor	0.5
Rainfall (mm)	515 (averaged)

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) \$58,367.53

7. Appendices

Appendix 1. Threatened Fauna Species List

COMMON NAME	SPECIES	EPBC Act	NPW Act SA	DATE OF LAST RECORD (BDBSA)
Australasian Bittern	Botaurus poiciloptilus	EN		1-Jan- 1984
Australasian Shoveler	Spatula rhynchotis		R	23-Feb-2010
Australian Fairy Tern	Sternula nereis nereis	VU		12-Nov-2011
Banded Stilt	Cladorhynchus leucocephalus		V	06-Feb-2005
Bar-tailed Godwit	Limosa lapponica baueri	VU	R	06-Jun-2010
Beautiful Firetail (MLR, KI)	Stagonopleura bella samueli	of concern	R	30-Nov-2012
Black Falcon	Falco subniger		R	18-Feb-2013
Black-browed Albatross	Thalassarche melanophris	VU	ssp	08-May-1982
Black-tailed Godwit	Limosa limosa melanuroides		R	07-Feb-2010
Brown Quail	Coturnix ypsilophora australis		V	07-Jul-2013
Brown-headed Honeyeater (KI)	Melithreptus brevirostris magnirostris	EN		17-Nov-1990
Bush Stone-curlew	Burhinus grallarius		R	19-Sep-2021
Common Sandpiper	Actitis hypoleucos		R	06-Feb-2005
Curlew Sandpiper	Calidris ferruginea	CR	E	16-Feb-1985
Eastern Osprey	Pandion haliaetus cristatus		E	05-Nov-1990
Fairy Prion	Pachyptila turtur subantarctica	VU		
Far Eastern Curlew	Numenius madagascariensis	CR	E	10-Feb-2012
Flame Robin	Petroica phoenicea		V	01-Jan-1976
Freckled Duck	Stictonetta naevosa		V	09-Feb-2003
Glossy Black-Cockatoo (KI)	Calyptorhynchus lathami halmaturinus	EN	E	13-Mar-2019
Great Knot	Calidris tenuirostris	CR	E	13-Nov-2011
Greater Sand Plover	Charadrius leschenaultii leschenaultii	sp	R	30-Nov-2012
Grey Currawong	Strepera versicolor		ssp	24-Oct-2020
Grey-headed Albatross	Thalassarche chrysostoma	EN	V	03-Sep-1968
Grey-tailed Tattler	Tringa brevipes		R	09-Jan-1996
Hooded Plover	Thinornis cucullatus cucullatus	VU	V	17-Nov-2014
Indian Yellow-nosed Albatross	Thalassarche carteri	VU	E	21-Aug-1982
Lesser Sand Plover	Charadrius mongolus mongolus	sp	E	13-Oct-1994
Lewin's Rail	Lewinia pectoralis pectoralis		V	21-Apr-2005
Little Egret	Egretta garzetta nigripes		R	30-Nov-2012
Little Wattlebird (KI)	Anthochaera chrysoptera halmaturina	VU		10-Apr-2017
Musk Duck	Biziura lobata menziesi		R	30-Nov-2012
Northern Giant Petrel	Macronectes halli	VU		01-Jul-1982

COMMON NAME	SPECIES	EPBC Act	NPW Act SA	DATE OF LAST RECORD (BDBSA)
Pacific Golden Plover	Pluvialis fulva		R	16-Feb-1985
Pacific Reef Heron	Egretta sacra sacra		R	10-Feb-2012
Peregrine Falcon	Falco peregrinus macropus		R	01-Jan-1987
Pied Oystercatcher	Haematopus longirostris		R	17-Nov-2014
Purple-gaped Honeyeater	Lichenostomus cratitius	of concern	ssp	11-Apr-2017
Red Knot (ssp. rogersi)	Calidris canutus rogersi	EN	E	13-Nov-2011
Restless Flycatcher	Myiagra inquieta		R	10-Apr-2017
Rock Parrot	Neophema petrophila zietzi		R	30-Nov-2012
Ruddy Turnstone	Arenaria interpres interpres		R	11-Feb-2012
Sanderling	Calidris alba alba		R	05-Mar-1986
Scarlet Robin	Petroica boodang boodang		R	19-Sep-2021
Shy Heathwren	Hylacola cauta	VU	R	26-Oct-2016
Sooty Oystercatcher	Haematopus fuliginosus fuliginosus		R	20-Dec-2016
South Australian Bassian Thrush	Zoothera lunulata halmaturina	VU	R	
Striated Thornbill (KI)	Acanthiza lineata whitei	VU		09-Apr-2017
Whimbrel	Numenius phaeopus variegatus		R	06-Feb-2011
White-bellied Sea Eagle	Haliaeetus leucogaster		E	15-Oct-2015
White-bellied Whipbird (KI)	Psophodes leucogaster lashmari	EN	R	05-Oct-2021
White-eared Honeyeater (KI)	Nesoptilotis leucotis thomasi	EN		07-Nov-1990
Wood Sandpiper	Tringa glareola		R	23-Feb-2010
Yellow-tailed Black Cockatoo	Zanda funerea whiteae		V	19-Sep-2021

Appendix 2. Fauna recorded during site assessment

Common Name	Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Grand Total	Vert Group	SANPWS	EPBC
Brown Tree Frog	Litoria ewingii									1	1											2	А		
Burrowing Frog	Neobatrachus pictus		1					1			1											3	Α		
Common Froglet	Crinia signifera	1	1		1			1	1		1	1										7	А		
Australian Boobook (KI)	Ninox boobook						1															1	В		
Australian Golden Whistler				1													1		1	1	1	5	В		
Australian Magpie	Gymnorhina tibicen	1	1	1	1	1	1				1	1	1	1								10	В		
Australian Raven (YP, eastern SA, KI)	Corvus coronoides coronoides												1									1	в		
Australian White Ibis	Threskiornis molucca molucca	1	1																			2	В		
Black-faced Cuckooshrike	Coracina novaehollandiae	1				1	1		1			1										5	В		
Black-winged Currawong (KI)	Strepera versicolor halmaturina		1	1	1	1	1	1	1		1	1	1		1	1		1	1	1	1	16	в		
Brown Thornbill (KI)	Acanthiza pusilla zietzi	1	1	1		1			1	1	1	1	1	1		1		1	1	1	1	15	В		
Brown-headed Honeyeater (KI)	Melithreptus brevirostris magnirostris	1										1							1		1	4	в		EN
Brush Bronzewing	Phaps elegans																	1				1	В		
Bush Stonecurlew	Burhinus grallarius	1			1			1													1	4	В	R	
Common Blackbird*	Turdus merula merula														1							1	В		
Common Bronzewing	Phaps chalcoptera				1	1											1					3	В		
Crescent Honeyeater (KI and MLR)	Phylidonyris pyrrhopterus halmaturinus	1	1		1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	18	в		
Eastern Barn Owl	Tyto javanica delicatula								1									1				2	В		
Eastern Spinebill (KI, MLR, southern FR)	Acanthorhynchus tenuirostris halmaturinus					1	1	1		1	1		1	1			1	1	1			10	в		
Eurasian Skylark*	Alauda arvensis arvensis										1											1	В		
European Goldfinch*	Carduelis carduelis britannica										1											1	В		
Fairy Martin	Petrochelidon ariel														1							1	В		
Galah (most of SA)	Eolophus roseicapilla albiceps		1							1	1									1	1	5	В		
Grey Fantail	Rhipidura albiscapa	1	1			1				1		1			1	1	1	1	1		1	11	В		
Grey Shrikethrush	Colluricincla harmonica								1													1	В		
Little Raven	Corvus mellori	1		1	1	1	1		1		1	1	1		1		1			1	1	13	В		
Masked Lapwing	Vanellus miles	1				1																2	В		
Nankeen Kestrel	Falco cenchroides	1																				1	В		
New Holland Honeyeater (KI)	Phylidonyris novaehollandiae campbelli			1	1	1	1		1		1	1	1	1			1					10	В		

Common Name	Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Grand Total	Vert Group	SANPWS	EPBC
Peregrine Falcon	Falco peregrinus macropus		1																			1	В	R	
Purple-gaped Honeyeater																									
(KI)	Lichenostomus cratitius cratitius					1						1	1				1					4	в	R	concern
Rainbow Lorikeet	Trichoglossus haematodus	1	1					1			1	1		1								6	В		
Red Wattlebird (KI)	Anthochaera carunculata clelandi	1					1	1	1	1	1		1	1			1			1	1	11	В		
Red-browed Finch	Neochmia temporalis temporalis			1																		1	В		
Scarlet Robin	Petroica boodang boodang			1				1					1						1		1	5	В	R	
Shy Heathwren (Kangaroo																								1	
Island)	Hylacola cauta halmaturina														1							1	В	R	v
Silvereye	Zosterops lateralis	1		1			1		1	1	1	1	1	1	1	1	1	1	1	1		15	В		
Spotted Pardalote	Pardalotus punctatus	1	1		1	1		1					1				1					7	В	i	
Striated Pardalote	Pardalotus striatus	1			1																	2	В	1	
Striated Thornbill (KI)	Acanthiza lineata whitei				1								1				1	1			1	5	В	1	V
Superb Fairywren (KI)	Malurus cyaneus ashbyi	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1		18	В	1	
Tawny-crowned																								1	
Honeyeater	Gliciphila melanops																1					1	в	1	
Wedge-tailed Eagle	Aquila audax														1							1	В	1	
Welcome Swallow	Hirundo neoxena neoxena		1								1			1	1							4	В		
White-browed Scrubwren	Sericornis frontalis	1			1			1				1		1	1			1	1			8	В	1	
White-eared Honeyeater	-																							1	
(KI)	Nesoptilotis leucotis thomasi					1	1	1	1			1							1			6	в	1	EN
Willie Wagtail	Rhipidura leucophrys leucophrys					1					1											2	В	1	
Yellow-tailed Black																								1	
Cockatoo	Zanda funerea whiteae	1			1				1				1			1						5	в	v	concern
Common Brushtail Possum	Trichosurus vulpecula	1		1																		2	М	R	
Domestic Cat (Feral Cat)	Felis catus								1													1	М	1	
Koala	Phascolarctos cinereus					1		1		1		1										4	М	1	
Short-beaked Echidna																									
(Kangaroo Island)	Tachyglossus aculeatus multiaculeatus		1		1	1	1				1		1	1		1	1	1	1	1		12	м	Е	EN
Tammar Wallaby	Macropus (Notamacropus) eugenii eugenii	1	1	1	1	1			1		1		1	1	1	1			1			12	М	1	
																								1	
Western Grey Kangaroo (KI)	Macropus fuliginosus fuliginosus	1		1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1	17	м	i	
Four-toed Earless Skink	Hemiergis peronii			1						1			1	1	1							5	R	i	
Garden Skink	Lampropholis guichenoti							1														1	R		
Heath Goanna	Varanus rosenbergi																		1			1	R	V	
Mallee Snake-eye	Morethia obscura							1														1	R	i	
Southern Four-toed Slider	Lerista dorsalis														1							1	R	i	
Three-toed Earless Skink	Hemiergis decresiensis																				1	1	R	i	
Tiger Snake	Notechis scutatus							1							1							2	R		
Grand Total		23	16	14	17	19	13	18	17	12	21	18	20	14	17	10	16	13	16	11	14	319			

Appendix 3. Flora Species List

					DATE OF
			NATIONAL	STATE	LAST
FAMILY NAME	SPECIES	COMMON NAME	RATING	RATING	RECORD
COMPOSITAE	Olearia microdisca	Small-flower Daisy-bush	EN	E	12-Mar-2021
COMPOSITAE	Olearia pannosa ssp. pannosa	Silver Daisy-bush	VU	V	20-Sep-2010
CRASSULACEAE	Crassula exserta	Large-fruit Crassula		R	02-Oct-2000
DILLENIACEAE	Hibbertia glebosa ssp. oblonga			R	14-Jul-2018
DILLENIACEAE	Hibbertia obtusibracteata	Prickly Guinea-flower		V	28-Jan-2019
EUPHORBIACEAE	Beyeria subtecta	Kangaroo Island Turpentine Bush	VU	E	02-Nov-2018
GRAMINEAE	Austrostipa densiflora	Fox-tail Spear-grass		R	12-Oct-2011
GRAMINEAE	Austrostipa multispiculis	Many-flowered Spear-grass		R	05-Jul-1997
ABIATAE	Prostanthera chlorantha	Green Mintbush		R	12-Mar-2021
ABIATAE	Scutellaria humilis	Dwarf Skullcap		R	06-May-2002
EGUMINOSAE	Daviesia benthamii ssp. humilis (NC)	Mallee Bitter-pea		R	14-Sep-1997
EGUMINOSAE	Pultenaea insularis	Beyeria Bush-pea		E	06-Jun-2005
EGUMINOSAE	Pultenaea villifera var. glabrescens	Splendid Bush-pea	VU	V	01-Apr-1995
EGUMINOSAE	Acacia dodonaeifolia	Hop-bush Wattle		R	17-Oct-2020
ILIACEAE	Xanthorrhoea semiplana ssp. tateana	Tate's Grass-tree		R	07-Mar-2013
MYOPORACEAE	Myoporum parvifolium	Creeping Boobialla		R	30-Sep-2012
VYRTACEAE	Eucalyptus diversifolia ssp. hesperia	Coastal White Mallee		R	28-Apr-2011
VYRTACEAE	Eucalyptus fasciculosa	Pink Gum		R	20-May-2019
MYRTACEAE	Eucalyptus phenax ssp. compressa	Kangaroo Island Mallee		R	20-May-2019
ORCHIDACEAE	Caladenia ovata	Kangaroo Island Spider-orchid	VU	E	24-Sep-2004
ORCHIDACEAE	Caladenia reticulata	Veined Spider-orchid		R	14-Sep-2003
ORCHIDACEAE	Caladenia sanguinea	Crimson Daddy-long-legs		R	10-Sep-1999
ORCHIDACEAE	Pterostylis melagramma	Tall Greenhood		E	14-Apr-2011
PROTEACEAE	Grevillea halmaturina ssp. halmaturina	Prickly Grevillea		R	20-May-2019
PROTEACEAE	Grevillea muricata	Rough Spider-flower		R	28-Jan-2019
RESTIONACEAE	Desmocladus diacolpicus	Bundled Cord-rush		V	19-Oct-1999
RHAMNACEAE	Spyridium daphnoides	Spoon-leaved Spyridium		R	28-Jan-2019
RHAMNACEAE	Spyridium eriocephalum var. glabrisepalum	Macgillivray Spyridium	VU	E	20-May-2019
RHAMNACEAE	Pomaderris halmaturina ssp. halmaturina	Kangaroo Island Pomaderris	VU	V	28-Mar-2021
RHAMNACEAE	Spyridium scabridum	Rough Spyridium		R	26-Sep-1995
RUTACEAE	Leionema equestre	Kangaroo Island Phebalium	EN	E	09-Dec-2019
RUTACEAE	Correa backhouseana var. orbicularis	Round-leaf Correa		R	05-Dec-2021
JMBELLIFERAE	Hydrocotyle comocarpa	Fringe-fruit Pennywort		R	06-Jun-2020

Appendix 4. Bushland Assessment Scoresheets

Vegetation Condition Scores				Conservation Significance Score	
SITE:	2, 42, 43	3, 53, 57, 60-64		is the vegetation association considered a Threatened Ecological community or Ecosystem?	Yes/No
VEGETATION ASSOCIATION DESCRIPTION	E. divers	sifolia, E. cosmphylla +/ E. cneorifolia Mallee Woodland		State (Provisional List of Threatened Ecosystems of SA) Rare community (0.1 pt)	
SIZE OF SITE (Ha)		, , , , ,		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	proportion	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 com		Very low regeneration, consisting of highly scattered		Note; all sites will score a minimum Conservation Significance Score of 1 Threatened CommuntiyScore	1
very good condition (approaching a pre-European state	e)	juvenile plants of a limited number of species (3			
<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		*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)		individual juvinile plants but a limited number of		State Rare species recorded (1 pt each)	1
21 - 30% (12 Points)		species (6 points)		State Vulnerable species recorded (2.5 pt each)	C
31 - 40 % (15 Points)		Multiple species regenerating, but low numbers of		State Endangered recorded (5 pts each)	C
41 - 50% (18 Points)		juvenile plants (9 points)		Nationally Vulnerable species recorded (10 pts each)	C
51 - 60% (21 Points)		Multiple species regenerating with multiple individual		Nationally Endangered or Critically endangered species recorded (20 pts each)	C
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	1
71 - 80% (27 Points)		Regeneration Score (Max 12)	6	Threatened Flora Score	0.04
>80% (30 Points)					
Native Plant species diversity score (max score of	30) 24		_	Potential habitat for Threatened Fauna Species (number observed or previously recorded)	Number
Weed Ocean		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. 22
Weed Scores				State Rare species observed or locally recorded (1 pt each) State Vulnerable species observed or locally recorded (2.5 pt each)	22
NRM Act 2004 (1.5 points)				State Endangered species observed or locally recorded (2.5 pt each)	2
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 pt each)	7
Does the site contain environmental weeds (introduced	4	reduced vegetation cover (8 points)		Nationally Endangered or Critically endangered species observed or locally recorded (20 pts each)	7
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 = 0.08 pts; 20 or > = 0.1 pts	257
species from bushland. This typically includes species	s 🖸	impacted, with reduced structural diversity, elements		Threatened Fauna Score	0.1
with a BCM weed threat rating of 3, 4 or 5). (1 Point)	2, 42, 43, 53, 57, 60-64 NTON DESCRIPTION E. diversifolia, E. cosmphylla +/ E. cneorifolia 0,078 0.078 Versity 0.078 cices present in the site as a proportion ed in a vegetation of that community in roaching a pre-European state) No regeneration present (0 Points) Very low regeneration, consisting queenile plants of a limited number points) Regeneration present, consisting queenile plants of a limited number points) Image: Present with varying age class precises (points) Multiple species regenerating with multiple species (points) At tract or structural diversity, largely unform mental weeds (max of 6) 1 Instructure learners (16, points) Native Plant life form At least on estrata of vegetation cover (8 points) Native Plant life form score (max 12) Internetal weeds (max of 6) 2 Instructural diversity, largely unform max 5) 6 inter of 15) 11.5 Interd impacts	may be missing (such as plant species that provide			
Cover rating for all environmental weeds (max of 6)	2	specific structural features e.g. sedges or mid layer		CONSERVATION SIGNIFICANCE SCORE	1.14
Weed Score (max score of 15)	11.5		-		
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	ntext x
Is the community naturally treeless?				Total Scores for the Site Vegetation Condition x Landscape Con Conservation Significance =	
Mature Tree Score (max 8)				LANDSCAPE CONTEXT SCORE 1.16 UNIT BIODIVERSITY SCORE	60.93
Fallen timber/debris (max 5)				VEGETATION CONDITION SCORE 46.08 Total Biodiversity Score	
Hollow-bearing trees Score (max 5)		disturbance. A variety of life forms and associated		CONSERVATION SIGNIFICANCE SCORE 1.14 (Biodiversity Score x hectares)	4.75
Tree Canopy Cover Score (max 5)	4	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)	5	Native Plant life form score (max 20)	12		
				South	
Vegetation Condition Score calculation				GPS Reference	
Positive Vegetation Attributes Score = Native spec Fallen timber/debris + Hollow-bearing trees	ies diversity	+ Regeneration + Native Plant Life Forms + Mature Tre	es +	Zone (52, 53 or 54)	WGS84
If the community is naturally treeless this score is multiple	ied hv 124		48.50		
		nass score - Tree Canopy Cover Score)exp2/2)	4.00		
			46.08		
				E. diversifolia woodland	d
		meanum			
Weed Score					
				Assessment for Clearance Approximate hectares required	0.62
Tree Hollows				Loss Factor 1.0 Economies of Scale factor	0.50
Fallen timber				Loadings for clearance of protected areas Mean Annual rainfall for the site (mm)	507
Vegetation Condition Score				Reductions for rehabilitation of impact site Payment into the fund (GST Exclusive) SEB Points required 4.99	\$3,383.71
				SEB Points required 4.99 Administration fee (GST Inclusive)	\$186.10

VA1 Amberley Scoresheet

Vegetation Condition Scores				Conservation Significance Score	
SITE:	65, 66		1	Is the vegetation association considered a Threatened Ecological community or Ecosystem?	Yes/No
VEGETATION ASSOCIATION DESCRIPTION	E. divers	sifolia, E. cosmphylla Mallee Woodland	1	State (Provisional List of Threatened Ecosystems of SA) Rare community (0.1 pt)	
SIZE OF SITE (Ha)	0.02			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 or Critically Endangered community (0.4 pts)	
to what would be expected in a vegetation of that comm 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; all sites will score a minimum Conservation Significance Score of 1 Threatened CommuntlyScore	
<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		*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)		individual 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)	
1 - 50% (18 Points)		juvenile plants (9 points)		Nationally Vulnerable species recorded (10 pts each)	
1 - 60% (21 Points)		Multiple species regenerating with multiple individual		Nationally Endangered or Critically endangered species recorded (20 pts each)	
1 - 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)		Regeneration Score (Max 12)		Threatened Flora Score	C
>80% (30 Points)					
Native Plant species diversity score (max score of 30	J) 24	Native Plant life form		Potential habitat for Threatened Fauna Species (number observed or previously recorded)	Numbe
		All strata of vegetation heavily impacted and native	I	"If a species has both a State (NP&W Act) and National (EPBC Act) rating, it's only recorded for its National	rating.
Need 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		points)	ļ	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 reduced vegetation cover (8 points)		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		At least one strata of vegetation has been	<u> </u>	0 = 0 pts; <2 = 0.02 pts; 2 - <5 = 0.04 pts; 5 - <10 = 0.06 pts; 10 - <20 = 0.08 pts; 20 or > = 0.1 pts	
plants with the capacity to invade and exclude native		impacted, with reduced structural diversity, elements			
species from bushland. This typically includes species with a BCM weed threat rating of 3, 4 or 5). (1 Point)		may be missing (such as plant species that provide		Threatened Fauna Score	
with a bolw weed threat failing of 5, 4 of 5). (11 onit)		specific structural features e.g. sedges or mid layer		CONSERVATION SIGNIFICANCE SCORE	1.14
Cover rating for all environmental weeds (max of 6)	2	shrubs) and reduce vegetation cover (12 points)			1.14
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 Con	text x
s the community naturally treeless?		only a minor loss in structurally diversity, vegetation		Score Conservation Significance =	
Mature Tree Score (max 8)	6	cover or structural elements (16 points)		LANDSCAPE CONTEXT SCORE 1.11 UNIT BIODIVERSITY SCORE	58
Fallen timber/debris (max 5)	0.5	All strata of vegetation present, little or no sign of	1	VEGETATION CONDITION SCORE 46.08 Total Biodiversity Score	
Hollow-bearing trees Score (max 5)	0	disturbance. A variety of life forms and associated		CONSERVATION SIGNIFICANCE SCORE 1.14 (Biodiversity Score x hectares)	1
Tree Canopy Cover Score (max 5)	4	age classes present. Vegetation cover near	-		
		complete (20 points)	1	Photo Point and Vegetation Survey Location Direction of the Phot	0
Native:exotic Understorey biomass score (max 5)	5	Native Plant life form score (max 20)	1:	South	
Vegetation Condition Score calculation	-			GPS Reference	
	e diversity	+ Regeneration + Native Plant Life Forms + Mature Tre			WGS84
Fallen timber/debris + Hollow-bearing trees	a diversity	· regeneration · reative riant Elle ronna · mature ne		Zone (52, 53 or 54)	
If the community is naturally treeless this score is multiplie	d by 1.24		48.50		
Negative Vegetation Attributes Score = (15 - Weeds) +	((10 - Biom	nass score - Tree Canopy Cover Score)exp2/2)	4.00	Northing (7 digits)	
EGETATION CONDITION SCORE (Positive veg attribu	utes x ((Ne	egative vegetation attributes + 60) / 80))	46.08	Description	
Lo	w	Medium High	1	E. diversifolia woodland	d on curve
Native Plant Species Diversity					
Weed Score			1		
Native Plant Life Forms					
Regeneration					
			i		
Native:exotic Understorey Biomass					
Tree Canopy Cover Score					
Mature Tree Score				Assessment for Clearance Approximate hectares required	
Tree Hollows				Loss Factor 1.0 Economies of Scale factor	
Fallen timber				Loadings for clearance of protected areas Mean Annual rainfall for the site (mm)	
Vegetation Condition Score	_			Reductions for rehabilitation of impact site Payment into the fund (GST Exclusive)	\$83 \$4
Vegetation Condition Score				SEB Points required 1.22 Administration fee (GST Inclusive)	

VA1 Gantheaume Scoresheet

Vegetation Condition Scores				Conservation Significance Score			
SITE:	78			Is the vegetation association considered a Threatened Ecological community or Ecosystem?	Yes/No		
VEGETATION ASSOCIATION DESCRIPTION		tus rugosa, E. diversifolia, +/- E. cneorifolia Mallee Woo	dland	State (Provisional List of Threatened Ecosystems of SA) Rare community (0.1 pt)			
SIZE OF SITE (Ha)	0.02			State (Provisional List of Threatened Ecosystems of SA) Vulnerable community (0.1 pt)			
	0.02			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 pre-	oportion	No regeneration present (0 Points)		Contains a Nationally (EPBC Act) Endangered or Critically Endangered community (0.4 pts)	<u> </u>		
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; all sites will score a minimum Conservation Significance Score or 1 Inreatened CommunityScore			
<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		*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)		individual 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)		iuvenile plants (9 points)		Nationally Vulnerable species recorded (10 pts each)	C		
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 = 0.04 pts; 2 - <5 = 0.08 pts; 5 - <10 = 0.12 pts; 10 - <20 = 0.16 pts; 20 or > = 0.2 pts	0		
71 - 80% (27 Points)		Regeneration Score (Max 12)	3	Threatened Flora Score	0		
>80% (30 Points)							
Native Plant species diversity score (max score of 30) 24	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			
Weed Scores	_			State Rare species observed or locally recorded (1 pt each)	22		
Does the site contain plant species declared under the		points)		State Vulnerable species observed or locally recorded (2.5 pt each)			
NRM Act 2004 (1.5 points) Cover rating for all declared weeds (max of 6)	1	All strata of vegetation impacted with limited structural diversity, largely uniform age classes and		State Endangered species observed or locally recorded (5 pt each) Nationally Vulnerable species observed or locally recorded (10 pts each)			
		reduced vegetation cover (8 points)		Nationally Fundangered or Critically endangered species observed or locally recorded (10 pts each)			
Does the site contain environmental weeds (introduced 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			
species from bushland. This typically includes species		impacted, with reduced structural diversity, elements		U = U pis; <2 = UU2 pis; 2 - <3 = UU4 pis; 5 - <10 = UU6 pis; 10 - 2U = UU6pis; 20 of >= U.1 pis Threatened Fauna Score			
with a BCM weed threat rating of 3, 4 or 5). (1 Point)		may be missing (such as plant species that provide					
war a bow wood and a rating or o, 4 or of. (11 only		specific structural features e.g. sedges or mid layer					
Cover rating for all environmental weeds (max of 6)	3	shrubs) and reduce vegetation cover (12 points)					
Weed Score (max score of 15)	10.5	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	text 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 1.09 UNIT BIODIVERSITY SCORE	47.92		
Fallen timber/debris (max 5)	0.5	All strata of vegetation present, little or no sign of		VEGETATION CONDITION SCORE 39.97 Total Biodiversity Score			
Hollow-bearing trees Score (max 5)	0	disturbance. A variety of life forms and associated		CONSERVATION SIGNIFICANCE SCORE 1.10 (Biodiversity Score x hectares)	0.96		
Tree Canopy Cover Score (max 5)	4	age classes present. Vegetation cover near					
Native:exotic Understorey biomass score (max 5)	4	complete (20 points)	40	Photo Point and Vegetation Survey Location Direction of the Photo	0		
Native:exotic Understorey biomass score (max 5)	4	Native Plant life form score (max 20)	12	sw			
Vegetation Condition Score calculation				GPS Reference			
Positive Vegetation Attributes Score = Native species	s diversity	+ Regeneration + Native Plant Life Forms + Mature Tree	es +	Datum	WGS84		
Fallen timber/debris + Hollow-bearing trees		0		Zone (52, 53 or 54)	53		
If the community is naturally treeless this score is multiplied			43.50				
Negative Vegetation Attributes Score = (15 - Weeds) + (6.50		6036963		
VEGETATION CONDITION SCORE (Positive veg attribu	tes x ((Ne	gative vegetation attributes + 60) / 80))	39.97				
Lov	v	Medium High		Woodland on a curve			
Native Plant Species Diversity							
Weed Score							
Native Plant Life Forms							
Regeneration							
Native:exotic Understorey Biomass							
Tree Canopy Cover Score							
Mature Tree Score				Assessment for Clearance Approximate hectares required	0.13		
Tree Hollows				Loss Factor 1.0 Economies of Scale factor	0.50		
Fallen timber				Loadings for clearance of protected areas Mean Annual rainfall for the site (mm)	521		
Vegetation Condition Score				Reductions for rehabilitation of impact site Payment into the fund (GST Exclusive) SEB Points required 1.01 Administration fee (GST Inclusive)	\$701.19 \$38.57		
				SEB Points required 1.01 [Administration fee (GST Inclusive)	\$38.5		

VA2 Coranda Scoresheet

Vegetation Condition Scores				Conservation Significance Score	
SITE:	50, 54,	55, 56		Is the vegetation association considered a Threatened Ecological community or Ecosystem?	Yes/No
VEGETATION ASSOCIATION DESCRIPTION	E. cnec	rifolia, E. diversifolia mallee woodland		State (Provisional List of Threatened Ecosystems of SA) Rare community (0.1 pt)	
SIZE OF SITE (Ha)	0.004			State (Provisional List of Threatened Ecosystems of SA) Vulnerable community (0.2 pts)	
			i –	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 pre-		No regeneration present (0 Points)		Contains a Nationally (EPBC Act) Endangered or Critically Endangered community (0.4 pts)	V
to what would be expected in a vegetation of that commi	unity in	Very low regeneration, consisting of highly scattered		Note; all sites will score a minimum Conservation Significance Score of 1 Threatened CommuntlyScore	1.4
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 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		*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)		species (6 points)		State Rare species recorded (1 pt each)	(
21 - 30% (12 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) Multiple species regenerating with multiple individual		Nationally Vulnerable species recorded (10 pts each)	
51 - 60% (21 Points)		juviniles present with varying age classes (12 points)		Nationally Endangered or Critically endangered species recorded (20 pts each) 0 = 0 pts; <2 = 0.04 pts; 2 - <5 = 0.08 pts; 5 - <10 = 0.12 pts; 10 - <20 = 0.16pts; 20 or > = 0.2 pts	
61 - 70% (24 Points) 71 - 80% (27 Points)		Regeneration Score (Max 12)		0 - 0 pis, <2 - 0.04 pis, 2 - <5 - 0.08 pis, 5 - <10 - 0.12 pis, 10 - <20 - 0.16 pis, 20 01 2 - 0.2 pis	
>80% (30 Points)		rtegeneration ocore (max 12)	-		
Native Plant species diversity score (max score of 30		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	
Weed Scores		vegetation represented by only scattered plants (4		State Rare species observed or locally recorded (1 pt each)	2
Does the site contain plant species declared under the		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 reduced vegetation cover (8 points)		Nationally Vulnerable species observed or locally recorded (10 pts each)	
Does the site contain environmental weeds (introduced plants with the capacity to invade and exclude native		At least one strata of vegetation has been		Nationally Endangered or Critically endangered species observed or locally recorded (20 pts each) 0 = 0 pts; <2 = 0.02 pts; 2 - <5 = 0.04 pts; 5 - <10 = 0.06 pts; 10 - <20 = 0.08 pts; 20 or > = 0.1 pts	25
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		CONSERVATION SIGNIFICANCE SCORE	1.5
Cover rating for all environmental weeds (max of 6)	11.5	shrubs) and reduce vegetation cover (12 points)			
Weed Score (max score of 15)	11.5	Limited impacts on native vegetation, with a diversity		Total Scores for the Site Vegetation Condition x Landscape Cor	ntext v
Is the community naturally treeless?		of structural features and a varied age class, with		Total Scores for the Site Vegetation Condition x Landscape Cor Conservation Significance =	itoxi x
Mature Tree Score (max 8)	5	only a minor loss in structurally diversity, vegetation cover or structural elements (16 points)		LANDSCAPE CONTEXT SCORE 1.11 UNIT BIODIVERSITY SCORE	64.8
Fallen timber/debris (max 5)	1	All strata of vegetation present, little or no sign of		VEGETATION CONDITION SCORE 38.95 Total Biodiversity Score	
Hollow-bearing trees Score (max 5)	0	disturbance. A variety of life forms and associated		CONSERVATION SIGNIFICANCE SCORE 1.50 (Biodiversity Score x hectares)	0.26
Tree Canopy Cover Score (max 5)	4	age classes present. Vegetation cover near			
		complete (20 points)		Photo Point and Vegetation Survey Location Direction of the Pho	to
Native:exotic Understorey biomass score (max 5)	5	Native Plant life form score (max 20)	1	SW/	
Vegetation Condition Score calculation			<u> </u>	GPS Reference	
Positive Vegetation Attributes Score = Native species	diversity	+ Receperation + Native Plant Life Forms + Mature Tre	+ 20		WGS84
Fallen timber/debris + Hollow-bearing trees	, anoionity	- regeneration - name rian che ronno - matare rie		Zone (52, 53 or 54)	
If the community is naturally treeless this score is multiplied			41.00	Easting (6 digits)	731564
Negative Vegetation Attributes Score = (15 - Weeds) + ((10 - Bior	nass score - Tree Canopy Cover Score)exp2/2)	4.00	Northing (7 digits)	6044396
VEGETATION CONDITION SCORE (Positive veg attributed)	tes x ((Ne		38.95	Description KI Mallee Woodland c	
Lov	v	Medium High			in cuive
Native Plant Species Diversity					
Weed Score					
Native Plant Life Forms					
Regeneration					
Native:exotic Understorey Biomass				Carling and Carling	
Tree Canopy Cover Score					
Mature Tree Score				Assessment for Clearance Approximate hectares required	0.03
Tree Hollows				Loss Factor 1.0 Economies of Scale factor	0.50
Fallen timber				Loadings for clearance of protected areas Mean Annual rainfall for the site (mm)	502
Vegetation Condition Score				Reductions for rehabilitation of impact site Payment into the fund (GST Exclusive) SEB Points required 0.27 Administration fee (GST Inclusive)	\$182.87 \$10.06
				SEB Points required 0.27 Administration fee (GST Inclusive)	\$10.06
VA3 Amberley Scoresh	eet				
	cut				
Vegetation Condition Scores				Conservation Significance Score	
SITE:	80, 81,	82		is the vegetation association considered a Threatened Ecological community or Ecosystem?	Yes/No
VEGETATION ASSOCIATION DESCRIPTION		rifolia, E. diversifolia Mallee		State (Provisional List of Threatened Ecosystems of SA) Rare community (0.1 pt)	
SIZE OF SITE (Ha)	0.0805			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)	V
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 commu	inity in	Very low regeneration, consisting of highly scattered		Note; all sites will score a minimum Conservation Significance Score of 1 Threatened CommuntlyScore	1.4
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 recorded for the site (within the site)	Number
5-10% (6 Points)		Regeneration present, consisting of multiple		"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)		individual juvinile plants but a limited number of species (6 points)		State Rare species recorded (1 pt each)	0
21 - 30% (12 Points)				State Vulnerable species recorded (2.5 pt each)	0

tate Vulnerable species recorded (2.5 pt each) state Vulnerable species recorded (2.5 pt each) state Endangered recorded (5 pts each) lationally Vulnerable species recorded (10 pts each) - 30% (12 Points) species (o poins) Multiple species regenerating, but low numbers of juvnile plants (9 points) Multiple species regenerating with multiple individual juvniles present with varying age classes (12 points) because the Server Max (2) 1 - 40 % (15 Points) tionally **Vulnerable** species recorded (10 pts each) tionally **Endangered** or **Critically endangered** species recorded (20 pts each) 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** 1 - 50% (18 Points) 1 - 60% (21 Points) -I - 70% (24 Points) I - 80% (27 Points) Regeneration Score (Max 12) Potential habitat for Threatened Fauna Species (number observed or previously recorded) If a species has both a State (NPSW Act) and National (EPBC Act) rating, it's only recorded for its Nat Jate Rare species observed or locally recorded (1 pt each) Tate Vulnerable species observed or locally recorded (2.5 pt each) 30% (30 Points) ative Plant species diversity score (max score of 30) 24 Native Plant life form All strata of vegetation heavily impacted and native vegetation represented by only scattered plants (4 Veed Scores Does the site contain plant species declared under the *IRM Act* 2004 (1.5 points) Dover rating for all declared weeds (max of 6) ogerau points) ~ 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, element may be missing (such as plant species that provide specific structural features e.g. seedings or mill align shrubs) and reduce vegetation cover (12 points) tate Vulnerable species observed or locally recorded (2 5 pt each) tate Endangered species observed or locally recorded (5 pt each) ationally Vulnerable species observed or locally recorded (10 pts each) ationally Endangered or Critically endangered species observed or locally recorded (20 pts each) • Does the site contain environmental weeds (introduced Jants with the capacity to invade and exclude native species from bushland. This typically includes species with a BCM weed threat rating of 3, 4 or 5). (1 Point) 0 = 0 pts; <2 = 0.02 pts; 2 - <5 = 0.04 pts; 5 - <10 = 0.06 pts; 10 - <20 = 0.08 pts; 20 or > = 0.1 pt • Threatened Fauna Scor ONSERVATION SIGNIFICANCE SCORE over rating for all environmental weeds (max of 6) Veed Score (max score of 15) 11.5 Limited impacts on native vegetation, with a diversit of structural features and a varied age class, with only a minor loss in structurally diversity, vegetation cover or structural elements (16 points) Vegetation Condition x Landscape Context x Total Scores for the Site Score 1.12 38.95 1.50 Conservation Significance = UNIT BIODIVERSITY SCORE Total Biodiversity Score the community naturally treeless? ANDSCAPE CONTEXT SCORE s the community naturally treeless? Mature Tree Score (max 8) Fallen timber/debris (max 5) Hollow-bearing trees Score (max 5) 5 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) 1 0 VEGETATION CONDITION SCORE CONSERVATION SIGNIFICANCE SCORE (Biodiversity Score x hectares) ree Canopy Cover Score (max 5) 4 oto Point and Vegetation Survey Location Direction of the Photo lative:exotic Understorey biomass score (max 5) 5 Native Plant life form score (max 20) 8 SSW GPS Reference Datum WGS84 Zone (52, 53 or 54) 53 Easting (6 digits) 763252 Northing (7 digits) 6039712 Description Ki Mallee 147 egetation Condition Score calculation - _g-winet.com.score carcUtation Positive Vegetation Attributes Score = Native species diversity + Regeneration + Native Plant Life Forms allen timber/dobins + Hollow-bearing trees if the community is naturally reveless this score is multiplied by 1.24 legante Vegetation Attributes Score = (15 - Weeds) + ((10 - Biomass score - Tree Canopy Cover Score)exp EGEFATION CONDITION SCORE (Positive veg attributes x ((Negative vegetation attributes + 60) / 80)) 38.95 Low High Native Plant Species Diversity Weed Score Native Plant Life Forms Regeneration otic Understorey Biomass Tree Canopy Cover Score Approximate hectares required Economies of Scale factor Mean Annual rainfall for the site (mm) Payment into the fund (GST Exclusive) Administration fee (GST Inclusive) Mature Tree Score Assessment for Clearance Tree Hollows Fallen timber

rance of protected areas habilitation of impact site

Reductions for rehabil SEB Points required

VA3 Coranda Scoreseheet

Vegetation Condition Score

257

0.1

5.27

0.6

\$3,713.40

1.5

	_			Conservation Significance Score
SITE: /EGETATION ASSOCIATION DESCRIPTION		13-15, 32, 33 ifolia, E. diversifolia Mallee		Is the vegetation association considered a Threatened Ecological community or Ecosystem? Yes State (Provisional List of Threatened Ecosystems of SA) Rare community (0.1 pt)
SIZE OF SITE (Ha)	0.2515			State (Provisional List of Threatened Ecosystems of SA) Vulnerable community (0.2 pts)
lative Diant and also diversify		Regeneration		State (Provisional List of Threatened Ecosystems of SA) Endangered community (0.3 pts) Image: Nationally (EPBC Act) Vulnerable community (0.35 pts)
Native Plant species diversity 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)
 what would be expected in a vegetation of that community ery good condition (approaching a pre-European state) 	unity in	Very low regeneration, consisting of highly scattered	<	Note; all sites will score a minimum Conservation Significance Score of 1 Threatened CommuntlyScore
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) Num
5-10% (6 Points)		Regeneration present, consisting of multiple	_	'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) 21 - 30% (12 Points)		individual juvinile plants but a limited number of species (6 points)		State Rare species recorded (1 pt each) State Vulnerable species recorded (2.5 pt each)
1 - 30% (12 Points) 31 - 40 % (15 Points)		Multiple species regenerating, but low numbers of		State Endangered recorded (2.5 pt each) State Endangered recorded (5 pts each)
1 - 50% (18 Points)		juvenile plants (9 points)		Nationally Vulnerable species recorded (10 pts each)
51 - 60% (21 Points) 51 - 70% (24 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 = 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
'1 - 80% (27 Points)		Regeneration Score (Max 12)	3	Threatened Flora Score
80% (30 Points) Native Plant species diversity score (max score of 30)	24	Native Plant life form		Potential habitat for Threatened Fauna Species (number observed or previously recorded) Num
		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.
Veed Scores Does the site contain plant species declared under the		vegetation represented by only scattered plants (4 points)		State Rare species observed or locally recorded (1 pt each) State Vulnerable species observed or locally recorded (2.5 pt each)
VRM 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) Does the site contain environmental weeds (introduced	1	structural diversity, largely uniform age classes and reduced vegetation cover (8 points)		Nationally Vulnerable species observed or locally recorded (10 pts each) Nationally Endangered or Critically endangered species observed or locally recorded (20 pts each)
plants with the capacity to invade and exclude native		At least one strata of vegetation has been impacted, with reduced structural diversity, elements		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 with a BCM weed threat rating of 3, 4 or 5). (1 Point)		may be missing (such as plant species that provide		Threatened Fauna Score
Cover rating for all environmental weeds (max of 6)	2	specific structural features e.g. sedges or mid layer shrubs) and reduce vegetation cover (12 points)		CONSERVATION SIGNIFICANCE SCORE 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 Context x Conservation Significance =
s the community naturally treeless? Mature Tree Score (max 8)	5	only a minor loss in structurally diversity, vegetation cover or structural elements (16 points)		LANDSCAPE CONTEXT SCORE 1.14 UNIT BIODIVERSITY SCORE
Fallen timber/debris (max 5)	1	All strata of vegetation present, little or no sign of		VEGETATION CONDITION SCORE 38.95 Total Biodiversity Score
follow-bearing trees Score (max 5) Tree Canopy Cover Score (max 5)	0	disturbance. A variety of life forms and associated		CONSERVATION SIGNIFICANCE SCORE 1.50 (Biodiversity Score x hectares)
		age classes present. Vegetation cover near complete (20 points)		Photo Point and Vegetation Survey Location Direction of the Photo
lative:exotic Understorey biomass score (max 5)	5	Native Plant life form score (max 20)	8	SE
Vegetation Condition Score calculation				GPS Reference
	s diversity	+ Regeneration + Native Plant Life Forms + Mature Tree	es +	Datum WGS84
If the community is naturally treeless this score is multiplied			41.00	Zone (52, 53 or 54) 53 Easting (6 digits) 732231
Negative Vegetation Attributes Score = (15 - Weeds) + (((10 - Biom		4.00 38.95	Northing (7 digits) 604274
/EGETATION CONDITION SCORE (Positive veg attribu		gative vegetation attributes + 60) / 80)) Medium High	JO.35	Description KI mallee on curve
Native Plant Species Diversity				
Weed Score				
Native Plant Life Forms				
Regeneration Native:exotic Understorey Biomass				
Tree Canopy Cover Score				
Mature Tree Score				Assessment for Clearance Approximate hectares required
Tree Hollows				Loss Factor 1.0 Economies of Scale factor Loadings for clearance of protected areas Mean Annual rainfall for the site (mm)
Fallen timber Vegetation Condition Score				
vegetation condition score				Reductions for rehabilitation of impact site Payment into the fund (GST Exclusive) \$11,
				Reductions for rehabilitation of impact site Payment into the fund (GST Exclusive) \$11, SEB Points required \$11, 17.59
VA3 Cygnet Scoreshee	et			Reductions for rehabilitation of impact site Payment into the fund (GST Exclusive) \$11,
VA3 Cygnet Scoreshee Vegetation Condition Scores	et			Reductions for rehabilitation of impact site Payment into the fund (GST Exclusive) \$11,
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Vegetation Condition Scores ITE: EGETATION ASSOCIATION DESCRIPTION IZE OF SITE (Ha) ative Plant species diversity core the diversity of species present in the site as a p table of the servected in a vegetation of this comm ary good condition (approaching a pre-European state) S% (3 Points) 1-0% (6 Points) 1-0% (6 Points) 1-0% (10 Points) 1-0% (10 Points) 1-0% (10 Points) 1-0% (2 Points) 20% (2 Points)	83 - 89	Regeneration No regeneration present (0 Points) Very low regeneration, consisting of highly scattere juvenile 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 varing and classes (12 points) Regeneration Score (Max 12) Native Plant life form All strata of vegetation neavily impacted and native vegetation represented by only scattered plants (4 points). All strata of vegetation impacted with limited structural diversity, larged uniform age classes and reduced vegetation cover (6 points). All iterat on vegetation cover (12 points) All iterat on vegetation table we impacted, with reduced structural diversity, element may be missing (such as plant species that provide specific structural features e.g. sedges or mid layer shrubs) and reduce vegetation, with a diversity of structural features and a varied age class, with only a minor loss in structural diversity, vegetation cover or structural features in a varied age class, with only a minor persent. Vegetation present. Ittle 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) * Regeneration + Native Plant Life Forms + Mature Tin mass score - Tree Canopy Cover Score)esp2(2) spative vegetation attributes + 60) / 80)		Reductions for rehabilitation of Impact site Payment into the fund (GST Exclusive) State SEB Points required 17.59 Payment into the fund (GST Exclusive) State SED Points required 17.59 Payment into the fund (GST Exclusive) State Conservation Significance Score Interview of SA Part Score Y Is the vegetation association considered a Threatened Ecological community (0.1 pt) State (Provisional List of Threatened Ecosystems of SA) Valuerable community (0.2 pts) State (Provisional List of Threatened Ecosystems of SA) Valuerable community (0.4 pts) Not state (Provisional List of Threatened Ecosystems of SA) Valuerable community (0.4 pts) Note: all sites will score a minimum Conservation Significance Score of 1 Threatened Community/Score Number of Threatened Flora Species recorded for the site (within the site) Nt Y a species has both a State (NFW AC) and National (EPBC Act) rating. It's only recorded for its National rating State Rane species recorded (1 pt each) Nationally Theratened Flora Species recorded (20 pts each) State Rane species steaded or backly necessful species recorded (20 pts each) Nationally Theratened Flora Species (number observed or previously recorded for its National rating State Rane species steadered or locally necessful (20 pts each) State Rane species backed or locally necessful (20 pts each) Nationally Endangered

VA4 Coranda Scoresheet

Vegetation Condition Scores				Conservation Significance Score	
SITE:	36, 39, 4			Is the vegetation association considered a Threatened Ecological community or Ecosystem?	Yes/No
VEGETATION ASSOCIATION DESCRIPTION		ifolia, E. diversifolia, E. cosmophylla mid mallee		State (Provisional List of Threatened Ecosystems of SA) Rare community (0.1 pt)	
SIZE OF SITE (Ha)	0.114		<u> </u>	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	oportion	No regeneration present (0 Points)		Contains a Nationally (EPBC Act) Endangered or Critically Endangered community (0.4 pts)	2
o what would be expected in a vegetation of that commu- very good condition (approaching a pre-European state)	unity in	Very low regeneration, consisting of highly scattered		Note; all sites will score a minimum Conservation Significance Score of 1 Threatened CommuntlyScore	1
		juvenile plants of a limited number of species (3	☑		Number
<5% (3 Points) 5-10% (6 Points)		points) Regeneration present, consisting of multiple		Number of Threatened Flora Species recorded for the site (within the site) "If a species has both a State (NP&W Act) and National (EPBC Act) rating, it's only recorded for its National ra	
11 - 20% (9 Points)		individual 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)	
11 - 50% (18 Points)		juvenile plants (9 points)		Nationally Vulnerable species recorded (10 pts each)	
51 - 60% (21 Points) 51 - 70% (24 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 = 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 - 70% (24 Points) 71 - 80% (27 Points)		Regeneration Score (Max 12)	3	Threatened Flora Score	0.0
>80% (30 Points)					
Native Plant species diversity score (max score of 30	0) 21	Native Plant life form All strata of vegetation heavily impacted and native		Potential habitat for Threatened Fauna Species (number observed or previously recorded) "If a species has both a State (NP&W Act) and National (EPBC Act) rating, it's only recorded for its National ra	Number
Weed Scores		vegetation represented by only scattered plants (4		State Rare species observed or locally recorded (1 pt each)	g
Does the site contain plant species declared under the	~	points)		State Vulnerable species observed or locally recorded (2.5 pt each)	
VRM Act 2004 (1.5 points) Cover rating for all declared weeds (max of 6)	1	All strata of vegetation impacted with limited structural diversity, largely uniform age classes and		State Endangered species observed or locally recorded (5 pt each) 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)	
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 = 0.08 pts; 20 or > = 0.1 pts	2
species from bushland. This typically includes species		impacted, with reduced structural diversity, elements may be missing (such as plant species that provide		Threatened Fauna Score	0
with a BCM weed threat rating of 3, 4 or 5). (1 Point)		specific structural features e.g. sedges or mid layer		CONSERVATION SIGNIFICANCE SCORE	1.54
Cover rating for all environmental weeds (max of 6)	2	shrubs) and reduce vegetation cover (12 points)			
Need Score (max score of 15)	11.5	Limited impacts on native vegetation, with a diversity		Total Scores for the Site Vegetation Condition x Landscape Conte	ext x
s the community naturally treeless?		of structural features and a varied age class, with only a minor loss in structurally diversity, vegetation		Total Scores for the Site Vegetation Condition x Landscape Conte Conservation Significance =	
Mature Tree Score (max 8)	4	cover or structural elements (16 points)		LANDSCAPE CONTEXT SCORE 1.13 UNIT BIODIVERSITY SCORE	64.
Fallen timber/debris (max 5)	1	All strata of vegetation present, little or no sign of		VEGETATION CONDITION SCORE 36.90 CONSERVATION SIGNIFICANCE SCORE 1.54 (Biodiversity Score x bectares)	
Hollow-bearing trees Score (max 5) Free Canopy Cover Score (max 5)	0	disturbance. A variety of life forms and associated age classes present. Vegetation cover near		CONSERVATION SIGNIFICANCE SCORE 1.54 (Biodiversity Score x hectares)	7.3
the sampy over score (max s)		age classes present. Vegetation cover near complete (20 points)		Photo Point and Vegetation Survey Location Direction of the Photo	
Native:exotic Understorey biomass score (max 5)	4	Native Plant life form score (max 20)	12	NW	
Vegetation Condition Score calculation				GPS Reference	
Positive Vegetation Attributes Score = Native species	s diversity	+ Regeneration + Native Plant Life Forms + Mature Tre	es +	Datum V	VGS84
allen timber/debris + Hollow-bearing trees				Zone (52, 53 or 54) 5	3
If the community is naturally treeless this score is multiplied Vegative Vegetation Attributes Score = (15 - Weeds) + (1 by 1.24	Trop Conony Course Soom/over2/2)	41.00 8.00	Easting (6 digits) 7	
VEGETATION CONDITION SCORE (Positive veg attributes	ites x ((Neg	gative vegetation attributes + 60) / 80))	36.90	Northing (7 digits) 6 Description	039042
Lov	N	Medium High		KI mallee, shoulder seal	ling impact
Native Plant Species Diversity					
Weed Score					
weed score					
Native Plant Life Forms				i	
Native Plant Life Forms Regeneration				i	
Native Plant Life Forms Regeneration Native:exotic Understorey Biomass				i	
Native Plant Life Forms Regeneration Native:exotic Understorey Biomass Tree Canopy Cover Score					
Native Plant Life Forms Regeneration Native:exotic Understorey Biomass Tree Canopy Cover Score Mature Tree Score				Assessment for Clearance Approximate hectares required	
Native Plant Life Forms Regeneration Native:societ Understore y Biomas Tree Canopy Cover Score Mature Tree: Score Tree Hollows				Loss Factor 1.0 Economies of Scale factor	0.5
Native Plant Life Forms Regeneration Native:exotic Understorey Biomass Tree Canopy Cover Score Mature Tree Score				Loss Factor 1.0 Loadings for clearance of protected areas Mean Annual rainfail for the site (mm) Reductions for rehabilitation of impact site Payment into the fund (GST Exclusive)	0.4 49 \$5,057.2
Native Plant Life Forms Regeneration Native:extoct Understorey Biomass Tree Canopy Cover Score Mature Tree Score Tree Hollows Fallen timber Vegetation Condition Score				Loss Factor 1.0 Economies of Scale factor Loadings for clearance of protected areas Mean Annual rainfall for the site (mm)	0.5 49 \$5,057.7
Native Plant Life Forms Regeneration Native:extoct Understorey Biomass Tree Canopy Cover Score Mature Tree Score Tree Hollows Fallen timber Vegetation Condition Score	neet			Loss Factor 1.0 Loadings for clearance of protected areas Mean Annual rainfail for the site (mm) Reductions for rehabilitation of impact site Payment into the fund (GST Exclusive)	0.5 49 \$5,057.7
Native Plant Life Forms Regeneration Native:exited Understore y Blomas Tree Canopy Cover Score Mature Tree Hollows Fallen timber Vegetation Condition Score	neet			Loss Factor 1.0 Economies of Scale factor Loadings for clearance of protected areas Mean Annual rainfail for the site (mm) Reductions for rehabilitation of impact site Payment into the fund (GST Exclusive) SEB Points required 7.69	0.5 0.5 44 \$5,057.7 \$278.1
Native Plant Life Forms Regent ation Native active Understore y Biomas Tree Canopy Cover Score Mature Tree Score Tree Hollows Fallen timber Vegetation Condition Score State Vagetation Condition Scores	_			Loss Factor 1.0 Economies of Scale factor Loadings for clearance of protected areas Mean Annual rainfail for the site (mm) Mean Annual rainfail for the site (mm) SEB Points required 7.69 Administration fee (GST Inclusive) Conservation Significance Score Conservation Significance Score	0.: 4! \$5,057.` \$278.`
Native Plant Life Forms Regeneration Native:extect Understorey Blomass Tree Canopy Cover Score Mature Tree Notore Tree Hollows Failen timbe Vegetation Condition Scores SITE:	3, 67-76			Loss Factor 1.0 Economies of Scale factor Loadings for clearance of protected areas Mean Annual rainfall for the site (mm) Payment into the fund (GST Exclusive) Roductions for rehabilitation of impact site Payment into the fund (GST Exclusive) Administration fee (GST Inclusive) SEB Points required 7.69 Administration fee (GST Inclusive) Conservation Significance Score Is the vegetation association considered a Threatened Ecological community or Ecosystem?	0.4 49 \$5,057.2
Native Plant Life Forms Regent ation Native scote Understore y Biomas Tree Cancey Yours Score Mature Tree Hollows Fallen timber Vegetation Condition Scores BITE: VEGETATION ASSOCIATION DESCRIPTION	3, 67-76	m insulare, Leucopogon parviforus Shrubland		Loss Factor 1.0 Economies of Scale factor Loadings for clearance of protected areas Mean Annual rainfail for the site (mm) Mean Annual rainfail for the site (mm) SEB Points required 7.69 Administration fee (GST Inclusive) Conservation Significance Score Conservation Significance Score	0.: 4! \$5,057.` \$278.`
Native Plant Life Forms Regeneration Native:resticution Native:resticution Tree Canopy Cover Score Mature Tree Score Tree Holdow Fallen timber Vegetation Condition Score STRE: VEGETATION ASSOCIATION DESCRIPTION SIZE OF SITE (Ha)	3, 67-76 Myoporu	um insulare, Leucopogon parviflorus Shrubland		Loss Factor 1.0 Loadings for clearance of protected areas Beductions for rehabilitation of impact site Reductions for rehabilitation of impact site Beductions for rehabilitation of impact site SEB Points required 7.69 State (Provisional List of Threatened Ecosystems of SA) Face community (0.1 pt) State (Provisional List of Threatened Ecosystems of SA) Each gener dommunity (0.2 pts) State (Provisional List of Threatened Ecosystem S (SA) Endergered community (0.3 pts)	0.: 4 \$5,057. \$278. Yes/No
Native Plant Life Forms Regent ation Native score Understore y Blomas Tree Canopy Cover Score Mature Tree Score Tree Hollow Failen timber Vegetation Condition Scores STE: Vegetation Association Description SIZE OF SITE (Ha) Native Plant species diversity	3, 67-76 Myoporu 0.0635	um insulare, Leucopogon parvflorus Shrubland Regeneration		Construction 1.0 Economies of Scale factor Condring for clearance of protected areas 1.0 Economies of Scale factor Reductions for rehabilitation of impact site 7.69 Payment into the fund (GST Exclusive) SEB Points required 7.69 Administration for (GST Exclusive) State Points required 7.69 Administration for (GST Exclusive) State of Provisional List of Threatened Ecological community (0.1 pt) State (Provisional List of Threatened Ecosystems of SA) Endangered community (0.2 pts) State (Provisional List of Threatened Ecosystems of SA) Endangered community (0.3 pts) Nationally (PSA CALY UNITERABIL Community (0.3 pts)	0. 4 \$5,057. \$278. Yes/No
Native Plant Life Forms Regeneration Native:resticution Native:resticution Tree Canopy Cover Score Mature Tree Score Tree Holdow Fallen timber Vegetation Condition Score STRE: VEGETATION ASSOCIATION DESCRIPTION SIZE OF SITE (Ha)	3, 67-76 Myoporu 0.0635	m insulare, Leucopogon paniflorus Shrubland Regeneration No regeneration present (0 Points)		Loss Factor 1.0 Losdings for clearance of protected areas Economies of Scale factor Reductions for rehabilitation of impact site Impact site SEB Points required 7.69 Ketuctions for rehabilitation of impact site Impact site SEB Points required 7.69 Ketuctions association considered a Threatened Ecological community or Ecosystem? State (Provisional List of Threatened Ecosystems of SA) Vulnerable community (0.2 pts) State (Provisional List of Threatened Ecosystems of SA) Vulnerable community (0.2 pts) State (Provisional List of Threatened Ecosystems of SA) Vulnerable community (0.2 pts) State (Provisional List of Threatened Ecosystems of SA) Vulnerable community (0.2 pts) State (Provisional List of Threatened Ecosystems of SA) Vulnerable community (0.2 pts) State (Provisional List of Threatened Ecosystems of SA) Vulnerable community (0.4 pts) Contains a Nationally (EPBC Act) Endangered or Critically Endangered community (0.4 pts)	0.: 4 \$5,057. \$278. Yes/No
Native Plant Life Forms Regeneration Native:resticutionerstory Blooms Tree Canopy Cover Score Mature Tree Score Tree Hollow Fallen timber Vegetation Condition Score Vegetation Condition Scores STE: VEGETATION ASSOCIATION DESCRIPTION SIZE OF SITE (Ha) Mature Plant species diversity Score the diversity of species present in the site as a pr	3, 67-76 Myoporu 0.0635	m insulare, Leucopogon paniflorus Shrubland Regeneration No regeneration present (0 Points) Very low regeneration, consisting of highly scattered		Construction 1.0 Economies of Scale factor Condring for clearance of protected areas 1.0 Economies of Scale factor Reductions for rehabilitation of impact site 7.69 Payment into the fund (GST Exclusive) SEB Points required 7.69 Administration for (GST Exclusive) State Points required 7.69 Administration for (GST Exclusive) State of Provisional List of Threatened Ecological community (0.1 pt) State (Provisional List of Threatened Ecosystems of SA) Endangered community (0.2 pts) State (Provisional List of Threatened Ecosystems of SA) Endangered community (0.3 pts) Nationally (PSA CALY UNITERABIL Community (0.3 pts)	0.: 4 \$5,057. \$278. Yes/No
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Vegetation Condition Score calculation
Positive Vegetation Attributes Score is Native spacies diversity + Regeneration + Native Plant Life Forms + Mature Trees +
Fallen timber/debris + Hollow-bearing trees
If the community is naturally treeless this score is multiplied by 1:24
Megative Vegetation Attributes Score (15: Weeds) + ((10: Biomass score - Tree Canopy Cover Score)exp2/2)
8:00
Vegetation CONDITION SCORE (Positive use attributes + (I)(10: Biomass score - Tree Canopy Cover Score)exp2/2)
8:00
Vegetation Attributes Score (15: Weeds) + ((10: Biomass score - Tree Canopy Cover Score)exp2/2)
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Vegetation Attributes Vegetation Attributes + 60/7 80()
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Vegetation Attributes + 60/

Native-exectic Understore y Biomass
Tree Canop Vocer Score
Mature Tree Score
Tree Hollows
Failen timber
Vegetation Condition Score

VA6 Gantheaume Scoresheet

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shrubland on curve

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oproximate hectares required conomies of Scale factor ean Annual rainfall for the site (mm syment into the fund (GST Exclusive

adings for clearance of protected areas aductions for rehabilitation of impact site

Vegetation Condition Scores				Conservation Significance S	score			
SITE:	4, 29, 30)	1	Is the vegetation association considered a Threat	ened Ecological	community or Ecosyst	em?	Yes/No
VEGETATION ASSOCIATION DESCRIPTION	Melaleu	ca halmaturorum, M. brevifolia, shrubland	i	State (Provisional List of Threatened Ecosystem:	s of SA) Rare c	ommunity (0.1 pt)		
SIZE OF SITE (Ha)	0.0825			State (Provisional List of Threatened Ecosystem:	s of SA) Vulner	able community (0.2	pts)	
				State (Provisional List of Threatened Ecosystem:	s of SA) Endan	gered community (0.3	3 pts)	
Native Plant species diversity		Regeneration		Nationally (EPBC Act) Vulnerable community (
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 En	dangered community	/ (0.4 pts)	
to what would be expected in a vegetation of that commu very good condition (approaching a pre-European state)	nity in	Very low regeneration, consisting of highly scattered juvenile plants of a limited number of species (3		Note; all sites will score a minimum Conservation S	ignificance Score	of 1 Threater	ned CommuntiyScore	J
<5% (3 Points)		points)		Number of Threatened Flora Species record				Numbe
5-10% (6 Points)		Regeneration present, consisting of multiple		*If a species has both a State (NP&W Act) and	National (EPBC	Act) rating, it's only re	ecorded for its National	rating.
11 - 20% (9 Points)		individual juvinile plants but a limited number of species (6 points)		State Rare species recorded (1 pt each)				1
21 - 30% (12 Points)		species (o 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				
51 - 60% (21 Points)		Multiple species regenerating with multiple individual		Nationally Endangered or Critically endanger				
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			
71 - 80% (27 Points)		Regeneration Score (Max 12)	e			Th	reatened Flora Score	
>80% (30 Points) Native Plant species diversity score (max score of 30)	24	Native Plant life form		Potential habitat for Threatened Fauna Spec	lee (number -	hoomed or provinced	ly recorded)	Numbe
Native Plant species diversity score (max score of 30)	24	All strata of vegetation heavily impacted and native	i –	*If a species has both a State (NP&W Act) and				
Weed Scores		vegetation represented by only scattered plants (4		State Rare species observed or locally recorded		Act/ rating, it's only re	scorded for its reational	laung.
Does the site contain plant species declared under the		points)		State Vulnerable species observed or locally recorded		ach)		
NRM Act 2004 (1.5 points)		All strata of vegetation impacted with limited		State Endangered species observed or locally recorded (2.5 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)	1	Nationally Endangered or Critically endanger	ed species obse	erved or locally recorde	ed (20 pts each)	
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	
species from bushland. This typically includes species		impacted, with reduced structural diversity, elements	•			Thre	atened Fauna Score	
with a BCM weed threat rating of 3, 4 or 5). (1 Point)		may be missing (such as plant species that provide						
Cover rating for all environmental weeds (max of 6)	2	specific structural features e.g. sedges or mid layer shrubs) and reduce vegetation cover (12 points)	1	CONSERVATION SIGNIFICANCE SCORE				1.1
Weed Score (max score of 15)	11.5		<u> </u>					I
weed Scole (max scole of 15)	11.5	Limited impacts on native vegetation, with a diversity	_	Total Scores for the Site		Vegetation Condit	tion x Landscape Cor	ntext x
Is the community naturally treeless?		of structural features and a varied age class, with only a minor loss in structurally diversity, vegetation		Total Scores for the Site	Score	Conservation Sign		
Tree attributes not scored for		cover or structural elements (16 points)	1	LANDSCAPE CONTEXT SCORE	1.14	UNIT BIODIVER		60
treeless community		All strata of vegetation present, little or no sign of		VEGETATION CONDITION SCORE	48.50	Total Biodiversi	ty Score	(
		disturbance. A variety of life forms and associated		CONSERVATION SIGNIFICANCE SCORE	1.10	(Biodiversity Sc	core x hectares)	5
		age classes present. Vegetation cover near						
		complete (20 points)		Photo Point and Vegetation Survey Location	1		Direction of the Phot	to
Native:exotic Understorey biomass score (max 5)	4	Native Plant life form score (max 20)	12	A REAL PROPERTY AND A REAL			_	
Venetetien Condition Coore coloulation			i	A CONTRACTOR OF			E GPS Reference	
Vegetation Condition Score calculation	17 74							
Positive Vegetation Attributes Score = Native species Fallen timber/debris + Hollow-bearing trees	diversity	+ Regeneration + Native Plant Life Forms + Mature Tre	es +				Zone (52, 53 or 54)	WGS84
If the community is naturally treeless this score is multiplied	by 1 24		52.08	and a difference			Easting (6 digits)	
Negative Vegetation Attributes Score = (15 - Weeds) + (nass score x 2))exp2/2)	5.50	and the second se			Northing (7 digits)	
VEGETATION CONDITION SCORE (Positive veg attribut			48.50	Contraction of the second			Description	
		Medium High		Contractor of the second second second	En Alteran		Tea Tree shrubland in	low lying
Native Plant Species Diversity				A STATE OF A		dia north	areas imapcted by she	oulder sea
Weed Score			i –			/		
Native Plant Life Forms								
Regeneration				and the second s				
Native:exotic Understorey Biomass	_							
				Assessment for Clearance		Approximate hect	ares required	
			1	Loss Factor	1.0	Economies of Sca	le factor	
				Loadings for clearance of protected areas			fall for the site (mm)	
				Reductions for rehabilitation of impact site		Payment into the	fund (GST Exclusive)	\$3,34
Vegetation Condition Score				SEB Points required	5.27	Administration fee		\$18

VA7 Cygnet Scoresheet

Vegetation Condition Scores				Conservation Significance Score		
SITE:	79			Is the vegetation association considered a Threatened Ecological community or Ecosystem?	Yes/No	
VEGETATION ASSOCIATION DESCRIPTION	Leucope	ogon parviflorus, Olearia axillaris, Myoporum insualrea, A	caica le	State (Provisional List of Threatened Ecosystems of SA) Rare community (0.1 pt)		
SIZE OF SITE (Ha)	0.07			State (Provisional List of Threatened Ecosystems of SA) Vulnerable community (0.2 pts)		
			<u> </u>	State (Provisional List of Threatened Ecosystems of SA) Endangered community (0.3 pts)		
Native Plant species diversity				Nationally (EPBC Act) Vulnerable community (0.35 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 (0.4 pts)		
to what would be expected in a vegetation of that comm		Very low regeneration, consisting of highly scattered		Note; all sites will score a minimum Conservation Significance Score of 1 Threatened CommuntlyScore		
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 recorded for the site (within the site)	Number	
5-10% (6 Points)		Regeneration present, consisting of multiple		*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)		individual juvinile plants but a limited number of		State Rare species recorded (1 pt each)		
21 - 30% (12 Points)		species (6 points)	1	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)		Regeneration Score (Max 12)	6	Threatened Flora Score		
>80% (30 Points)					·	
Native Plant species diversity score (max score of a	0) 21	Native Plant life form	i –	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	rating.	
Weed Scores		vegetation represented by only scattered plants (4		State Rare species observed or locally recorded (1 pt each)	2	
Does the site contain plant species declared under the		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)		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)		
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 = 0.08 pts; 20 or > = 0.1 pts	25	
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		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)	13	Limited impacts on native vegetation, with a diversity	1			
	_	of structural features and a varied age class, with		Total Scores for the Site Vegetation Condition x Landscape Con	ntext x	
Is the community naturally treeless?	✓	only a minor loss in structurally diversity, vegetation		Score Conservation Significance =		
Tree attributes not scored for		cover or structural elements (16 points)		LANDSCAPE CONTEXT SCORE 1.12 UNIT BIODIVERSITY SCORE	56.6	
treeless community		All strata of vegetation present, little or no sign of	1	VEGETATION CONDITION SCORE 45.94 Total Biodiversity Score		
		disturbance. A variety of life forms and associated		CONSERVATION SIGNIFICANCE SCORE 1.10 (Biodiversity Score x hectares)	3.96	
		age classes present. Vegetation cover near				
		complete (20 points)		Photo Point and Vegetation Survey Location Direction of the Photo	oto	
Native:exotic Understorey biomass score (max 5)	4	Native Plant life form score (max 20)	12			
				S S		
Vegetation Condition Score calculation			L	GPS Reference		
	es diversity	+ Regeneration + Native Plant Life Forms + Mature Tre	es +		WGS84	
Fallen timber/debris + Hollow-bearing trees				Zone (52, 53 or 54)		
If the community is naturally treeless this score is multipli		011 0/01	48.36			
Negative Vegetation Attributes Score = (15 - Weeds) + VEGETATION CONDITION SCORE (Positive veg attrib			4.00		6039262	
VEGETATION CONDITION SCORE (Positive veg attrit	utes x ((Ne		45.94		d	
	w	Medium High		Leucopogon shrublan	a on curve	
Native Plant Species Diversity			i			
Weed Score						
Native Plant Life Forms			1			
Regeneration						
Native:exotic Understorey Biomass						
Native.exotic onderstorey Biomass						
				Accordment for Clearance	0.5	
				Assessment for Clearance Approximate hectares required		
				Loss Factor 1.0 Economies of Scale factor	0.50	
				Loss Factor 1.0 Economies of Scale factor Loadings for clearance of protected areas Mean Annual rainfall for the site (mm)	529	
Vegetation Condition Score				Loss Factor 1.0 Economies of Scale factor	529	

VA8 Coranda Scoresheet

SITE: VEGETATION ASSOCIATION DESCRIPTION				Conservation Significance Score	
VEGETATION ASSOCIATION DESCRIPTION	37, 38, 4	44 - 49, 51, 52, 58, 59, 90		Is the vegetation association considered a Threatened Ecological community or Ecosystem?	Yes/No
	Melaleu	ca halmaturorum shrubland over saline species		State (Provisional List of Threatened Ecosystems of SA) Rare community (0.1 pt)	✓
SIZE OF SITE (Ha)	0.0135	· · · · · · · · · · · · · · · · · · ·		State (Provisional List of Threatened Ecosystems of SA) Vulnerable community (0.2 pts)	
			1	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)	K
Score the diversity of species present in the site as a prop		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 juvenile plants of a limited number of species (3		Note; all sites will score a minimum Conservation Significance Score of 1 Threatened CommuntlyScore	1.35
<5% (3 Points)		points)	1	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		*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)				State Rare species recorded (1 pt each)	0
21 - 30% (12 Points)		species (6 points)	1	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)		iuvenile plants (9 points)		Nationally Vulnerable species recorded (10 pts each)	1
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 = 0.04 pts; 2 - <5 = 0.08 pts; 5 - <10 = 0.12 pts; 10 - <20 = 0.16 pts; 20 or > = 0.2 pts	10
71 - 80% (27 Points)		Regeneration Score (Max 12)	6	Threatened Flora Score	0.16
>80% (30 Points)					
Native Plant species diversity score (max score of 30)	24	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	ating. 22
Weed Scores Does the site contain plant species declared under the	_	vegetation represented by only scattered plants (4 points)		State Rare species observed or locally recorded (1 pt each) State Vulnerable species observed or locally recorded (2.5 pt each)	22
NRM Act 2004 (1.5 points)	◄	All strata of vegetation impacted with limited		State Endangered species observed or locally recorded (2.5 pt each)	2
Cover rating for all declared weeds (max of 6)	1	structural diversity, largely uniform age classes and		Nationally Vulnerable species observed or locally recorded (3 preach)	
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)	7
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 = 0.08 pts; 20 or > = 0.1 pts	257
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	1	CONSERVATION SIGNIFICANCE SCORE	1.61
Cover rating for all environmental weeds (max of 6)	2	shrubs) and reduce vegetation cover (12 points)			
Weed Score (max score of 15)	11.5	Limited impacts on native vegetation, with a diversity		Total Scores for the Site Vegetation Condition x Landscape Cont	level v
	•	of structural features and a varied age class, with		Total Scores for the Site Vegetation Condition x Landscape Cont Conservation Significance =	IEXI X
Is the community naturally treeless?	⊻	only a minor loss in structurally diversity, vegetation		LANDSCAPE CONTEXT SCORE 1.11 UNIT BIODIVERSITY SCORE	86.67
Tree attributes not scored for treeless community		cover or structural elements (16 points)		VEGETATION CONDITION SCORE 48.50 Total Biodiversity Score	00.07
ineeress community		All strata of vegetation present, little or no sign of	<u> </u>	CONSERVATION SIGNIFICANCE SCORE 1.61 (Biodiversity Score x hectares)	1.17
		disturbance. A variety of life forms and associated age classes present. Vegetation cover near		(Biodiversity Score x flectares)	1.17
		complete (20 points)		Photo Point and Vegetation Survey Location Direction of the Phote	•
Native:exotic Understorey biomass score (max 5)	4	Native Plant life form score (max 20)	12		0
	-	Native Flant life form 30016 (max 20)	12	S	
Vegetation Condition Score calculation				GPS Reference	
Positive Vegetation Attributes Score = Native species	diversity	+ Regeneration + Native Plant Life Forms + Mature Tre	es +	Datum	WGS84
Fallen timber/debris + Hollow-bearing trees			i	Zone (52, 53 or 54)	
If the community is naturally treeless this score is multiplied b			52.08	Easting (6 digits)	
Negative Vegetation Attributes Score = (15 - Weeds) + ((1			5.50	Northing (7 digits)	6034544
	es x ((Ne		48.50	Description Tea tree shrubland over	r a alina
VEGETATION CONDITION SCORE (Positive veg attribute		Medium High		species in wet aeras	rsaiine
Low			i –		
				species in wet aeras	
Low				species ill wei deras	
Native Plant Species Diversity				Sproules in we, douas	
Native Plant Species Diversity Weed Score				Spituris II Wei aeras	
Native Plant Species Diversity Weed Score Native Plant Life Forms		_		Suburis II We, adi as	
Native Plant Species Diversity Weed Score Native Plant Life Forms Regeneration				Spicuris II We, adrias	
Native Plant Species Diversity Weed Score Native Plant Life Forms Regeneration					
Native Plant Species Diversity Weed Score Native Plant Life Forms Regeneration				Assessment for Clearance Approximate hectares required	0.15
Native Plant Species Diversity Weed Score Native Plant Life Forms Regeneration				Assessment for Clearance Approximate hectares required Economies of Scale factor	0.50
Native Plant Species Diversity Weed Score Native Plant Life Forms Regeneration				Assessment for Clearance Approximate hectares required	

VA9 Amberley Scoresheet

Vegetation Condition Scores				Conservation Significance Score	
SITE:	1,5, 8-1	2, 16-28, 31, 34, 35,	1	Is the vegetation association considered a Threatened Ecological community or Ecosystem?	Yes/No
VEGETATION ASSOCIATION DESCRIPTION	Melaleu	ca halmaturorum shrubland over saline species	1	State (Provisional List of Threatened Ecosystems of SA) Rare community (0.1 pt)	Image: A start and a start
SIZE OF SITE (Ha)	0.045	· · · · · ·		State (Provisional List of Threatened Ecosystems of SA) Vulnerable community (0.2 pts)	
			1	State (Provisional List of Threatened Ecosystems of SA) Endangered community (0.3 pts)	
Native Plant species diversity		Regeneration	1	Nationally (EPBC Act) Vulnerable community (0.35 pts)	v
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 (0.4 pts)	
to what would be expected in a vegetation of that com		Very low regeneration, consisting of highly scattered		Note; all sites will score a minimum Conservation Significance Score of 1 Threatened CommunityScore	1.3
very good condition (approaching a pre-European state)	juvenile plants of a limited number of species (3		·····,	
<5% (3 Points)		points)	1	Number of Threatened Flora Species recorded for the site (within the site)	Number
5-10% (6 Points)		Regeneration present, consisting of multiple		'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)		individual 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 encodes assessed as how how some	-	State Endangered recorded (5 pts each)	
41 - 50% (18 Points)		Multiple species regenerating, but low numbers of 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)	- F	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	1
71 - 80% (27 Points)		Regeneration Score (Max 12)	6	Threatened Flora Score	
>80% (30 Points)					
Native Plant species diversity score (max score of	30) 24	Native Plant life form	i –	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	
Weed Scores		vegetation represented by only scattered plants (4		State Rare species observed or locally recorded (1 pt each)	2
Does the site contain plant species declared under the		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)	<u> </u>	Nationally Endangered or Critically endangered species observed or locally recorded (20 pts each)	
plants with the capacity to invade and exclude native	✓	At least one strata of vegetation has been impacted, with reduced structural diversity, elements	1	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		may be missing (such as plant species that provide		Threatened Fauna Score	0.
with a BCM weed threat rating of 3, 4 or 5). (1 Point)		specific structural features e.g. sedges or mid layer		CONSERVATION SIGNIFICANCE SCORE	1.61
Cover rating for all environmental weeds (max of 6)	2	shrubs) and reduce vegetation cover (12 points)		CONSERVATION SIGNIFICANCE SCORE	1.01
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 =	
Tree attributes not scored for		cover or structural elements (16 points)		LANDSCAPE CONTEXT SCORE 1.12 UNIT BIODIVERSITY SCORE	87.4
treeless community		All strata of vegetation present, little or no sign of	1	VEGETATION CONDITION SCORE 48.50 Total Biodiversity Score	
		disturbance. A variety of life forms and associated		CONSERVATION SIGNIFICANCE SCORE 1.61 (Biodiversity Score x hectares)	3.94
		age classes present. Vegetation cover near			
		complete (20 points)		Photo Point and Vegetation Survey Location Direction of the Pho	oto
Native:exotic Understorey biomass score (max 5)	4	Native Plant life form score (max 20)	12		
				SE SE	
Vegetation Condition Score calculation			 	GPS Reference	
	es diversity	+ Regeneration + Native Plant Life Forms + Mature Tre	es +		WGS84
Fallen timber/debris + Hollow-bearing trees If the community is naturally treeless this score is multipli			52.08	Zone (52, 53 or 54) Easting (6 digits)	
Negative Vegetation Attributes Score = (15 - Weeds) +		2)/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/	52.08	Easing (6 digits) Northing (7 digits)	
VEGETATION CONDITION SCORE (Positive veg attri			48.50		0042510
			40.00	Tea tree shrubland ow	er saline
Native Plant Species Diversity	w	Medium High	i –	species	
Weed Score					
Native Plant Life Forms					
Regeneration					
Native:exotic Understorey Biomass					
				Assessment for Clearance Approximate hectares required	0.5
				Loss Factor 1.0 Economies of Scale factor	0.5
					51
			i	Loadings for clearance of protected areas Mean Annual rainfall for the site (mm)	51
Vegetation Condition Score				Loadings for clearance of protected areas Mean Annual rainfall for the site (mm) Reductions for rehabilitation of impact site SEB Points required 4.13 Administration fee (SST Inclusive)	

VA9 Cygnet Scoresheet