

Native Vegetation Clearance

Industrial Development, Port Augusta

Data Report

Clearance under the *Native Vegetation Regulations 2017*

December 2023

Prepared by West Coast Revegetation, NVC Accredited Consultant Phil Landless



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1. Application information

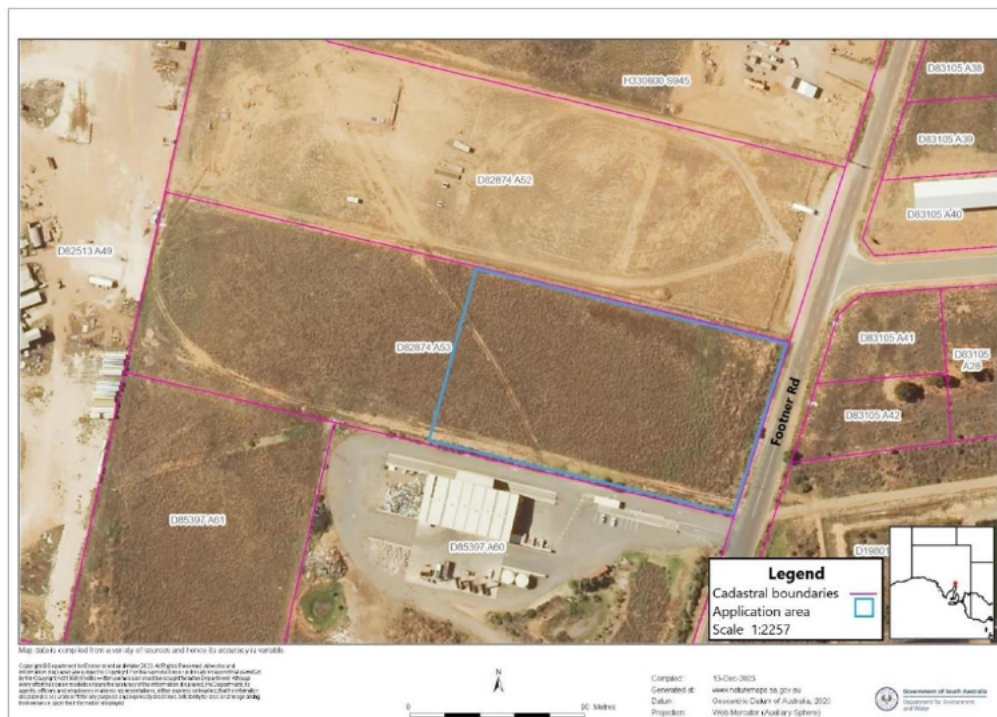
Application Details

Applicant:	Mossop Plumbing & Civil		
Key contact:	[REDACTED]		
Landowner:	[REDACTED]		
Site Address:	Lot 53 Footner Rd Port Augusta		
Local Government Area:	Port Augusta City Council	Hundred:	Davenport
Title ID:	CT6055/125	Parcel ID	D82874 A53

Summary of proposed clearance

Purpose of clearance	Clearance is required for the establishment of a large industrial site which will incorporate "lay down" areas for small and large machinery, turning area for road trains, demountable structures, space for rental machinery and equipment, a workshop, parking and fencing.
Native Vegetation Regulation	Regulation 12(33), New Dwelling or Building.
Description of the vegetation under application	1.7 ha of <i>Maireana oppositifolia/Atriplex vesicaria</i> Shrubland in good condition.
Total proposed clearance - area (ha) and number of trees	1.7 ha
Level of clearance	Level 4
Overlay (Planning and Design Code)	Native Vegetation Overlay

Map of proposed clearance area



Mitigation hierarchy	<p>Avoidance The location, design, size, or scale of the activity cannot be adjusted in order to reduce the scale of the impact. The area under application will be cleared to enable development of the site.</p> <p>Minimisation Development of the site requires removal of all vegetation. Extent, duration and intensity of the impacts to the site will be minimized by the following:</p> <ul style="list-style-type: none"> • Access to the proposed clearance site will be from Footner Road, • Cleared vegetation will be stored on-site before removal, minimizing impacts to surrounding vegetation, • All clearance activities necessary will be staged from within the application area, • Servicing, refueling and inspection for machinery contaminant leaks will be carried out on the worksite, • Vegetation on the balance of the block will be retained. <p>The area under application, 1.7 ha, is considered by the applicant as the minimum area necessary for successful continuation of his business. The balance of the block, 1.7 ha, will not be cleared.</p>
SEB Offset proposal	Payment of \$8010.12 (SEB payment plus administration fee) into the Native Vegetation Fund.

2. Purpose of clearance

2.1 Description

The purpose of the clearance is to establish a large industrial site which will incorporate “lay down” areas for small and large machinery, turning area for road trains, demountable structures, space for rental machinery and equipment, a workshop, parking and security fencing.

2.2 Background

Mossop Plumbing and Civil (MPC) has been established in Port Augusta since 2015, and provide their services across the Copper Triangle and the Woomera Prohibited Area.

MPC has successfully undertaken a diverse range of projects, from residential, commercial and industrial plumbing installations to civil engineering projects including road construction, flood mitigation and backfilling projects on a sub-contract basis.

MPC has a depot in Woomera which supports service to their clients in Woomera and throughout the Woomera Prohibited Area. As the business expands MPC requires the capacity to service their increasing client base. A dedicated depot in Port Augusta is central to this requirement.

To this end MPC has purchased Lot 53 Footner Rd, which is on the outskirts of Port Augusta. The block is directly north of Port Augusta Prison and has industrial sites on all sides. The applicant wishes to clear half of the block to provide the business with the depot required for this expanding business.

2.3 General location maps

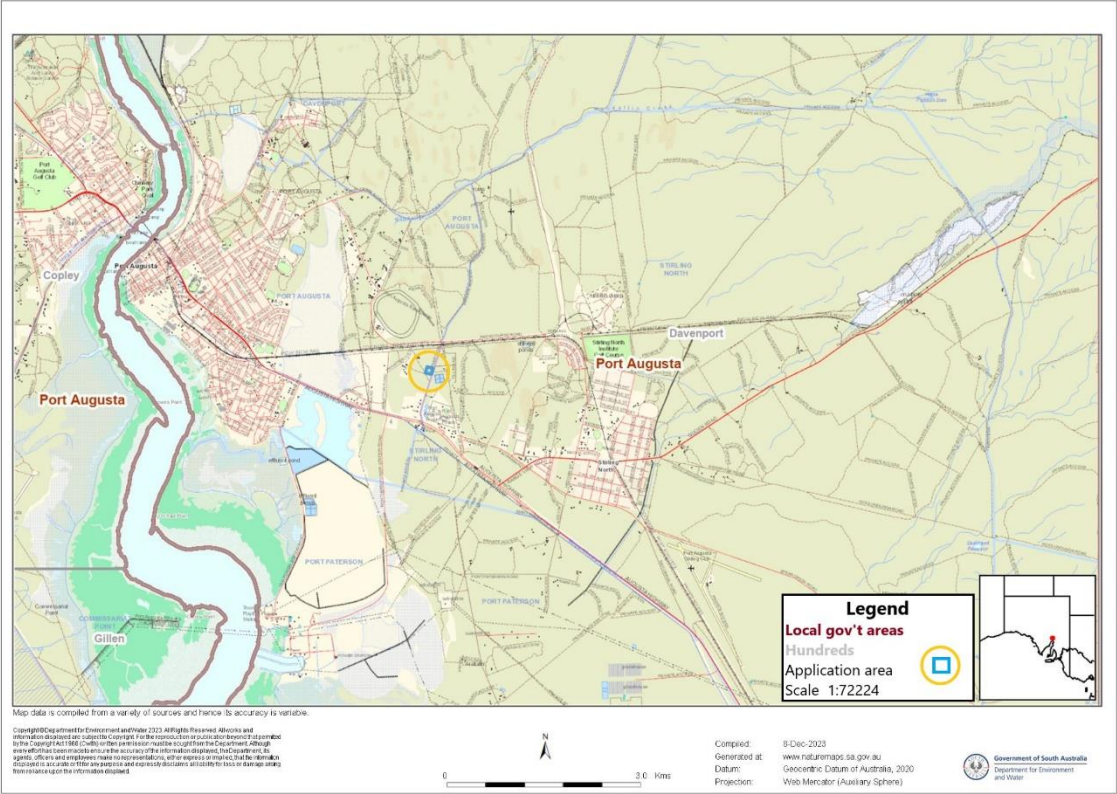


Figure 1. General location map.



Figure 2. General location satellite image.

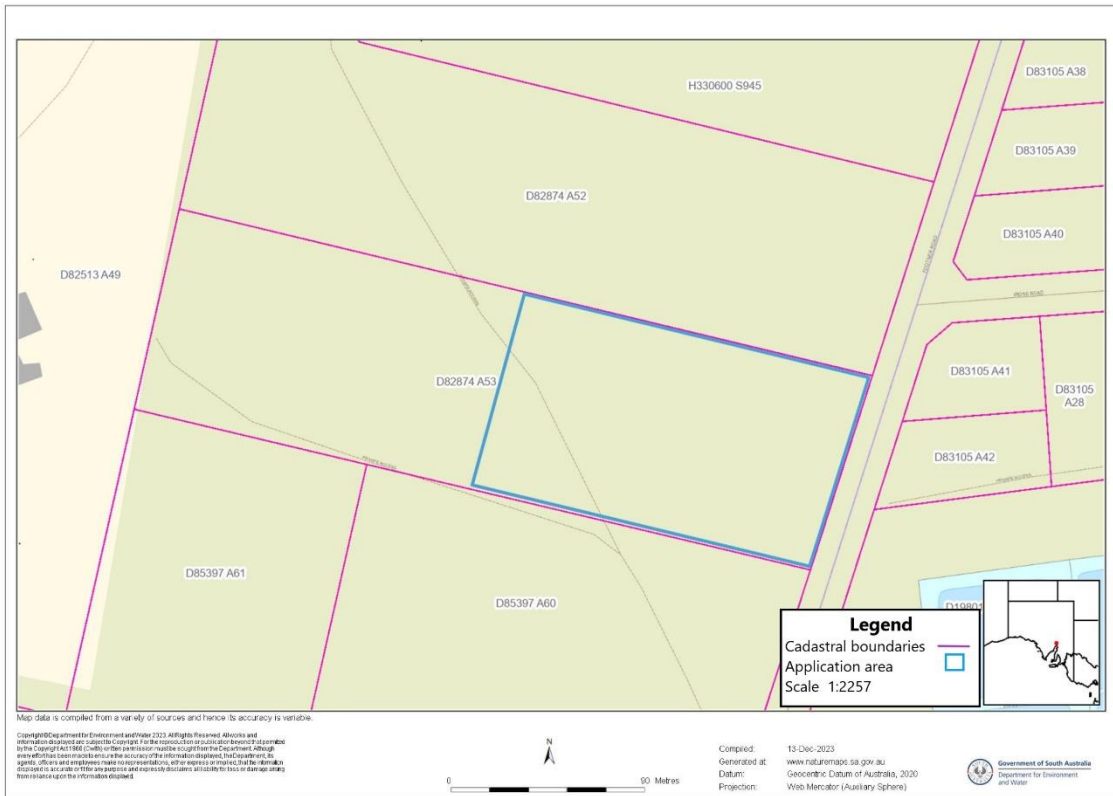


Figure 3. Site map.

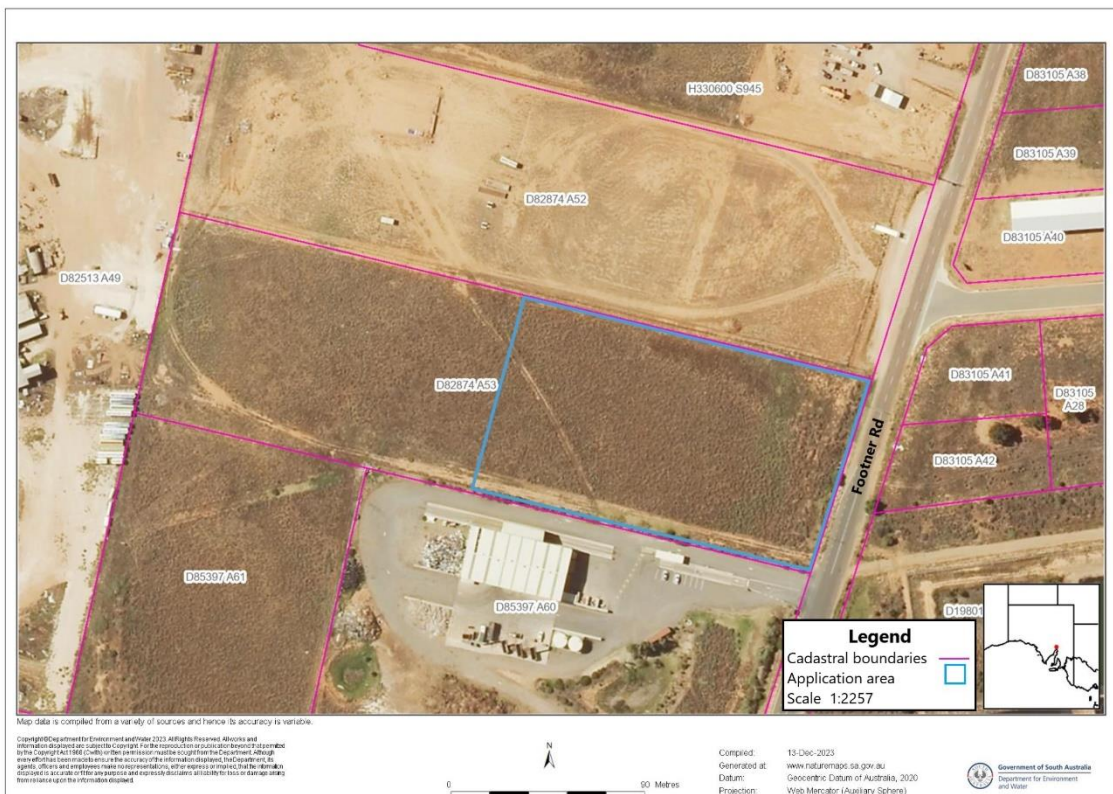


Figure 4. Site satellite image.

2.4 Details of the proposal

Clearance is required for the establishment of a large industrial site which will incorporate “lay down” areas for small and large machinery, turning area for road trains, demountable structures, space for rental machinery and equipment, a workshop, parking and security fencing on the Footner Rd frontage. The area will be cleared of all vegetation, filled, levelled and compacted in preparation for the establishment of the Mossop Plumbing and Civil industrial site. At this stage there are no drawings of the proposed layout or footprint of the buildings required by the applicant.

2.5 Approvals required or obtained

Native Vegetation Act 1991. No previous approvals to clear native vegetation on this site have been granted. Clearance under the Native vegetation Act 1991 is the subject of this proposal.

Planning, Development and Infrastructure Act 2016. A development application will be required but has not been applied for yet. Initial talks with the Port Augusta City Council indicate that any development application would be supported.

2.6 Native Vegetation Regulation

The proposed clearance is suggested to be assessed under Regulation 12(33), New Dwelling or Building.

2.7 Development Application information (if applicable)

Zones

- Strategic Employment – SE

Overlays

- Hazards (Bushfire – Regional)
- Hazards (Flooding – Evidence Required)
- Native vegetation

Variations

- Minimum Frontage
- Minimum Site Area

3. Method

3.1 Flora assessment

A desktop survey was conducted, prior to the field work, using the BDBSA on NatureMaps for the presence of species with state and/or national conservation status within a 5 km radius of the block, recorded before 1995 (Table 1).

The field work was carried out on 5 December 2023 by Phil Landless (NVC Accredited Consultant) following the methodology set out in the NVC Bushland Assessment Manual 2020. The site was surveyed, a species list prepared, and scores for the other attributes listed on the field data sheet were recorded. Plants with conservation status under the NP&W 1972 or the EPBC Act 1999 (as identified by the desktop survey) were actively searched for during the field survey.

3.2 Fauna assessment

A desktop fauna survey was conducted prior to the field work, using the BDBSA on NatureMaps for the presence of species with state and/or national conservation status within a 5 km radius of the block, recorded before 1995. Fauna species with conservation status under the NP&W 1972 or the EPBC Act 1999 (as identified by the desktop survey) were actively searched for during the field survey (Table 2).

4. Assessment Outcomes

4.1 Vegetation Assessment

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

The area under application falls within the Acraman IBRA Association and the Gawler Lakes IBRA Subregion. The landform is level. Soil is clay loam and slightly saline. There are no significant features such as watercourses or rocky outcrops.

One vegetation association was recorded within the application area – *Maireana oppositifolia*/*Atriplex vesicaria* Shrubland in good condition. Vegetation was homogenous across the site. This is a patch of remnant shrubland in an industrial landscape.

The Dutchman's Stern Conservation Park is 21 km to the north-west; Mount Brown CP is 18.5 km to the east; Winninowie CP is 17 km to the south. The closest Clearance Application Areas are 2019_3082, 750 m to the west; 2015_3038 1 km to the south; 2019_3127 1.5 km to the south; and 2017_3085 (numerous sites) 1.4 km to the east.

Details of the vegetation associates/scattered trees proposed to be impacted

Vegetation Association	<i>Maireana oppositifolia</i> / <i>Atriplex vesicaria</i> Shrubland
 <p>Position: 53S 763894E 6400110N Direction of photo: NE 60°</p>	
General description	A total of twenty-one plant species were recorded, fourteen native and seven introduced. The dominant native species recorded were <i>Maireana oppositifolia</i> Salt Bluebush and <i>Atriplex vesicaria</i> Bladder Saltbush. Other native species included <i>Sclerolaena obliquicuspis</i> Oblique-spined Bindyi, <i>Roepera aurantiacum</i> ssp. Shrubby Twinleaf, <i>Carpobrotus rossii</i> Native Pigface,

	<p><i>Austrostipa</i> sp. Spear-grass and <i>Disphyma crassifolium</i> ssp. <i>clavellatum</i> Round-leaf Pigface. Common introduced species included <i>Carrichtera annua</i> Ward's Weed, <i>Limonium lobatum</i> Winged Sea-lavender, and <i>Reichardia tingitana</i> False Sowthistle.</p>				
Threatened species or community	<p>Threatened flora species Two threatened species were noted in the threatened species search to be present within a 5 km radius of the site and recorded since 1995. One, <i>Malacocera gracilis</i> Slender Soft-horns, was considered as possibly occurring on the site.</p> <p>Threatened plant community The vegetation association on the site, <i>Maireana oppositifolia</i>/<i>Atriplex vesicaria</i> Shrubland does not appear in the Provisional List of Threatened Ecosystems included in the NVC Bushland Assessment Manual 2020.</p> <p>Threatened fauna species Five threatened fauna species were noted in the threatened species search to be present within a 5 km radius of the site and recorded since 1995. None were considered as possible users of the vegetation as habitat.</p>				
Landscape context score	1.04	Vegetation Condition Score	42.89	Conservation significance score	1.10
Unit biodiversity Score	49.07	Area (ha)	1.7 ha	Total biodiversity Score	83.42

Site map showing areas of proposed impact

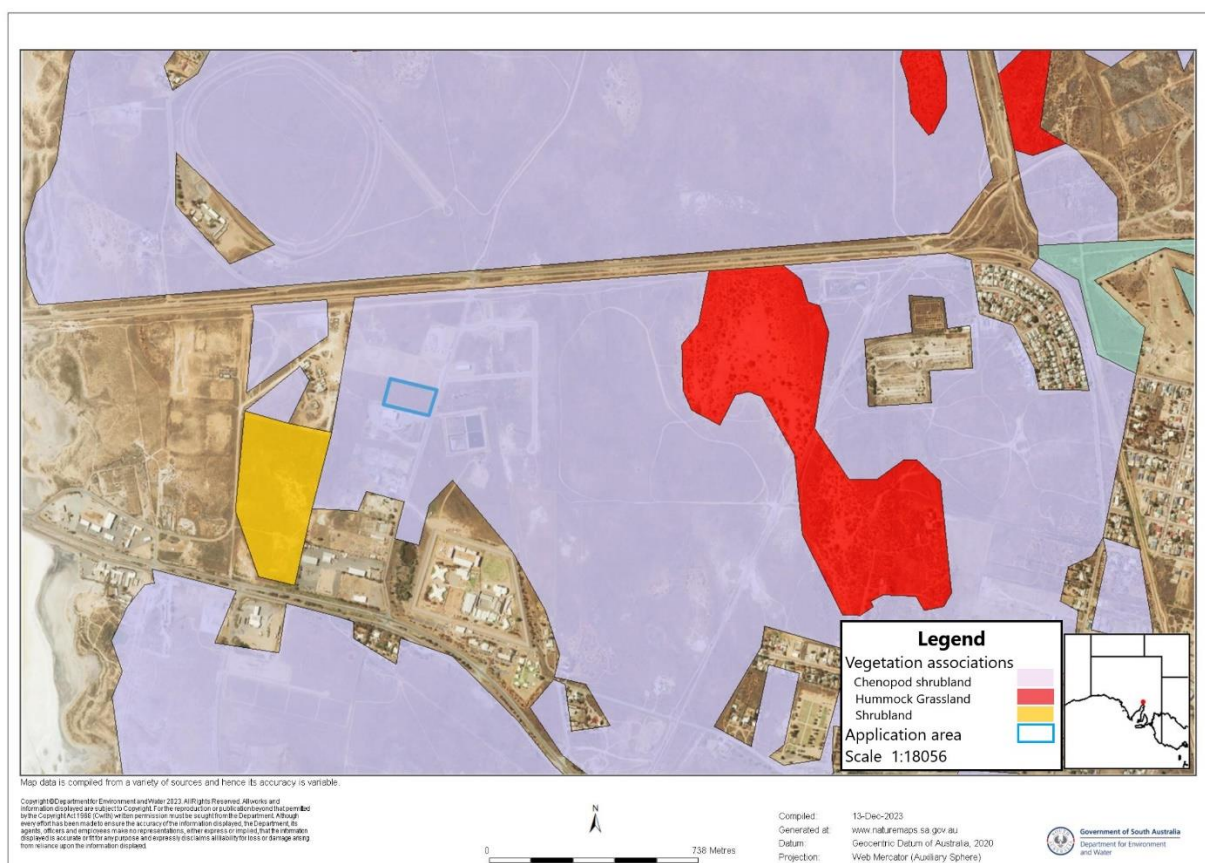


Figure 5. Site map with local vegetation associations.

Photo log

Photolog appears as Appendix 7.3

4.2 Threatened Species assessment

Table 1. Flora species observed on site, or recorded within 5km of the application area since 1995, or the vegetation is considered to provide suitable habitat

Species (common name)	NP&W Act	EPBC Act	Data source	Date of last record	Species known habitat preferences	Likelihood of use for habitat – Comments
<i>Malacocera gracilis</i> (Slender Soft-horns)	V		3	2016	Saline clay soils or gypseous mounds.	Possible.
<i>Acacia pendula</i> (Weeping Myall)	E	VU	3	2019	Heavy clay soils, on floodplains in fertile alluvial clay and red earth soils.	Unlikely. No suitable habitat.
Source; 1- BDBSA, 2 - AoLA, 3 – NatueMaps 4 – Observed/recorded in the field, 5 - Protected matters search tool, 6 – others NP&W Act; E= Endangered, V = Vulnerable, R= Rare EPBC Act; Ex = Extinct, CR = Critically endangered, EN = Endangered; VU = Vulnerable						

Table 2. Fauna species observed on site, or recorded within 5km of the application area since 1995, or the vegetation is considered to provide suitable habitat

Species (common name)	NP&W Act	EPBC Act	Data source	Date of last record	Species known habitat preferences	Likelihood of use for habitat – Comments
<i>Calidris ferruginea</i> (Curlew Sandpiper)	E	CR	3	2000	Coastal, inland mud-flats.	Unlikely. No suitable habitat.
<i>Cladorhynchus leucocephalus</i> (Banded Stilt)	V		3	2000	Fresh and saltwater marshes, marine mudflats. Large temporary lakes as salinity increases.	Unlikely. No suitable habitat.
<i>Falco hypoleucos</i> (Grey Falcon)	R	VU	3	2001	Woodland and scrub. Arid zones.	Unlikely. No suitable habitat.
<i>Falco subniger</i> (Black Falcon)	R		3	2006	Woodland, scrub, shrubland and grassland.	Unlikely. No suitable habitat.
<i>Lophochroa leadbeateri</i> (Major Mitchell's Cockatoo)(NW, EP)	R		3	2013	Require extensive woodlands, favouring <i>Callitris</i> spp., <i>Allocasuarina</i> spp., and <i>Eucalyptus</i> spp.	Unlikely. No suitable habitat.

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

Likelihood	Criteria
Highly Likely/Known	Recorded in the last 10 years, the species does not have highly specific niche requirements, the habitat is 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

Direct impact

The area under application will be completely cleared of vegetation to facilitate the development of the site.

Indirect impact

Measures to minimize indirect impacts will include:

- Dust suppression,
- Retention of present site hydrology,
- Accessing the site only from existing roads,
- Stockpiling vegetative debris on site before removal,
- Staging necessary clearing activities from within the site,
- Storing, servicing and fueling of machinery within the site.

4.4 Address the Mitigation Hierarchy

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

The location, design, size, or scale of the activity cannot be adjusted in order to reduce the scale of the impact. The area under application will be cleared to enable development of the site.

b) **Minimisation – if clearance cannot be avoided, outline measures taken to minimise 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).**

Development of the site requires removal of all vegetation. Extent, duration and intensity of the impacts to the site will be minimized by the following:

- Access to the proposed clearance site will be from Boundary Road,
- Cleared vegetation will be stored on-site before removal, minimizing impacts to surrounding vegetation,
- All clearance activities necessary will be staged from within the application area,
- Servicing, refueling and inspection for machinery contaminant leaks will be carried out on the worksite,
- Vegetation on the balance of the block will be retained.

The area under application, 1.7 ha, is considered by the applicant as the minimum area necessary for successful continuation and expansion of his business. The balance of the block, 1.7 ha, will not be cleared.

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.**

The proposed development of the site will be permanent. No rehabilitation or restoration is proposed.

- 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 applicant proposes to achieve the SEB by paying \$4,711.83 (SEB payment plus administration fee) into the Native Vegetation Fund.

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

Principle of clearance	Considerations
Principle 1a - it comprises a high level of diversity of plant species	<u>Relevant information</u> Twenty-one plant species were recorded, fourteen native and seven introduced. Bushland Plant Diversity Score – 22.0
	<u>Assessment against the principles</u> Seriously at Variance Vegetation association: <i>Maireana oppositifolia</i> / <i>Atriplex vesicaria</i> Shrubland.
	<u>Moderating factors that may be considered by the NVC</u> A relatively small area of vegetation will be impacted relative to the amount of vegetation in the local vicinity.
Principle 1b - significance as a habitat for wildlife	<u>Relevant information</u> Five threatened fauna species were noted in the threatened species search to be present within a 5 km radius of the site. All were considered unlikely to use the vegetation as habitat. Threatened Fauna Score – 0.1 Unit biodiversity Score – 49.07
	<u>Assessment against the principles</u> Seriously at Variance Vegetation association: <i>Maireana oppositifolia</i> / <i>Atriplex vesicaria</i> Shrubland.
	<u>Moderating factors that may be considered by the NVC</u> Only a very small area of vegetation will be impacted relative to the amount of similar vegetation in the local vicinity, and the proposed clearance is not likely to have a significant impact on the threatened species which may use the vegetation, as: <ul style="list-style-type: none"> • It will not lead to a long-term decrease in the population size, • The reduction of the local area of occupancy will be minimal, • Existing populations will not be fragmented, • It will not result in the establishment of invasive species which could be harmful to threatened species. Availability and/or quality of habitat will not be modified, destroyed, removed, or isolated to the extent that any species are likely to decline.
Principle 1c - plants of a rare, vulnerable or endangered species	<u>Relevant information</u> Two threatened species were noted in the threatened species search to be present within a 5 km radius of the site. One, <i>Malacocera gracilis</i> Slender Soft-horns, was considered as possibly occurring on the site. Threatened Flora Score – 0
	<u>Assessment against the principles</u> Not at Variance Vegetation association: <i>Maireana oppositifolia</i> / <i>Atriplex vesicaria</i> Shrubland.
	<u>Moderating factors that may be considered by the NVC</u>
Principle 1d - the vegetation	<u>Relevant information</u> No communities under the EPBC Act or threatened ecosystems under the DEW Provisional list of threatened ecosystems present.

comprises the whole or part of a plant community that is Rare, Vulnerable or endangered:	Threatened Community Score - 1
	<u>Assessment against the principles</u> Not at Variance Vegetation association: <i>Maireana oppositifolia</i> / <i>Atriplex vesicaria</i> Shrubland.
	<u>Moderating factors that may be considered by the NVC</u>
Principle 1e - it is significant as a remnant of vegetation in an area which has been extensively cleared.	<u>Relevant information</u> Remnancy figures for Acraman IBRA Association: 92% Remnancy figures for Gawler Lakes IBRA Subregion: 62% Total Biodiversity Score – 83.42
	<u>Assessment against the principles</u> At Variance Vegetation association: <i>Maireana oppositifolia</i> / <i>Atriplex vesicaria</i> Shrubland.
	<u>Moderating factors that may be considered by the NVC</u>
Principle 1f - it is growing in, or in association with, a wetland environment.	<u>Relevant information</u> Not applicable.
	<u>Assessment against the principles</u> Not applicable.
	<u>Moderating factors that may be considered by the NVC</u>
Principle 1g - it contributes significantly to the amenity of the area in which it is growing or is situated.	<u>Relevant information</u> Not applicable.
	<u>Assessment against the principles</u> Not applicable.
	<u>Moderating factors that may be considered by the NVC</u>

4.6 Risk Assessment

Determine the level of risk associated with the application

Total clearance	No. of trees	
	Area (ha)	1.7 ha
	Total biodiversity Score	83.42
Seriously at variance with principle 1(b), 1(c) or 1 (d)		Principles 1(a) and 1(b)
Risk assessment outcome		Level 4

5. Clearance summary

Table 3. Clearance Area Summary table

Block	Site	Species diversity score	Threatened Ecological community Score	Threatened plant score	Threatened fauna score	UBS	Area (ha)	Total Biodiversity score	Loss factor	Loadings	Reductions	SEB Points required	SEB payment	Admin Fee
A	A1	22	1	0	0.1	49.07	1.7	83.42	1			87.59	\$7592.53	\$417.59
						Total	1.7	83.42				87.59	\$7592.53	\$417.59

Table 4. Totals summary table

	Total Biodiversity score	Total SEB points required	SEB Payment	Admin Fee	Total Payment
Application	49.07	87.59	\$7592.53	\$417.59	\$8010.12

Economies of Scale Factor	0.11
Rainfall (mm)	264

6. Significant Environmental Benefit

ACHIEVING AN SEB

- ☐ Establish a new SEB Area on land owned by the proponent.
- ☐ Use SEB Credit that the proponent has established. Provide the SEB Credit Ref. No. _____
- ☐ Apply to have SEB Credit assigned from another person or body. The [application form](#) needs to be submitted with this Data Report.
- ☐ Apply to have an SEB to be delivered by a Third Party. The [application form](#) needs to be submitted with this Data Report.
- ☒ Pay into the Native Vegetation Fund.

PAYMENT SEB

The applicant proposes to achieve the SEB by paying \$8010.12 (SEB payment plus administration fee) into the Native Vegetation Fund.

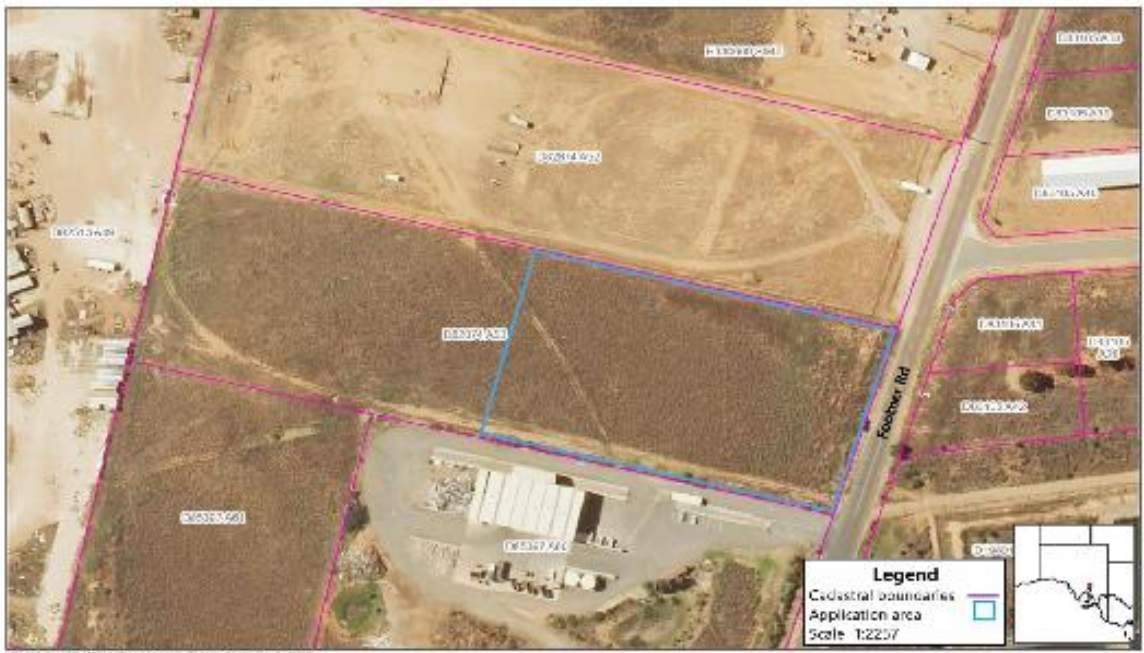
7. Appendices

Appendix 7.1 Flora species recorded during the field survey.

Note: asterisk (*) denotes introduced species.

Family	Species	Common name
<i>Aizoaceae</i>	<i>Carpobrotus rossii</i>	Native Pigface
	<i>Disphyma crassifolium ssp. clavellatum</i>	Round-leaf Pigface
<i>Amaranthaceae</i>	<i>Atriplex vesicaria</i>	Bladder saltbush
	<i>Maireana oppositifolia</i>	Salt Bluebush
	<i>Salsola australis</i>	Buckbush
	<i>Sclerolaena obliquicuspis</i>	Oblique-spined Bindyi
	<i>Tecticornia tenuis</i>	Slender Samphire
<i>Asteraceae</i>	* <i>Conyza bonariensis</i>	Flax-leaf Fleabane
	* <i>Lactuca serriola f.</i>	Prickly lettuce
	* <i>Reichardia tingitana</i>	False Sowthistle
	<i>Senecio sp.</i>	Groundsel
<i>Brassicaceae</i>	* <i>Carrichtera annua</i>	Ward's Weed
<i>Convolvulaceae</i>	<i>Convolvulus remotus</i>	Grassy Bindweed
<i>Nitrariaceae</i>	<i>Nitraria billardierei</i>	Nitre-bush
<i>Poaceae</i>	<i>Austrostipa sp.</i>	Spear-grass
	* <i>Avena sp.</i>	Oat
	<i>Cynodon dactylon var.</i>	Couch
	<i>Rytidosperma caespitosum</i>	Common Wallaby-grass
<i>Plumbaginaceae</i>	* <i>Limonium lobatum</i>	Winged Sea-lavender
<i>Solanaceae</i>	* <i>Lycium ferocissimum</i>	African Boxthorn
<i>Zygophyllaceae</i>	<i>Roepera aurantiacum ssp.</i>	Shrubby Twinleaf

Appendix 7.2 Bushland Vegetation Assessment Scoresheet associated with the proposed clearance (also submitted in Excel format)

Bushland Assessment Scoresheets		(Version - 28 July 2023)																			
Block	A	ASSESSOR(S)	P Landless																		
Size of Block (Ha)	1.700	DATE OF ASSESSMENT	5.12.2023																		
Landscapes Region	South Australian Arid Lands																				
BCM Region	Northern Agricultural & Yorke Peninsula																				
IBRA Association	Acraman																				
IBRA Subregion	Gawler Lakes																				
Map of the Block (Including the Sites)																					
																					
Landscape Context Scores		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">% native veg. remaining in IBRA Assoc.</td> <td style="width: 20%; text-align: right;">92</td> </tr> <tr> <td>% native veg. remaining in IBRA subregion</td> <td style="text-align: right;">62</td> </tr> <tr> <td colspan="2">0 - 10% = 0.05 pts; >10-20% = 0.04 pts; >20-30% = 0.03 pts; >30-60% = 0.02 pts; > 60 = 0 pts</td> </tr> <tr> <td style="text-align: right;">Score</td> <td style="text-align: right;">0</td> </tr> <tr> <td colspan="2">Score received for both IBRA assoc. and subregion then summed</td> </tr> </table>		% native veg. remaining in IBRA Assoc.	92	% native veg. remaining in IBRA subregion	62	0 - 10% = 0.05 pts; >10-20% = 0.04 pts; >20-30% = 0.03 pts; >30-60% = 0.02 pts; > 60 = 0 pts		Score	0	Score received for both IBRA assoc. and subregion then summed									
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">Percent Vegetation Cover (5km radius) (%)</td> <td style="width: 20%; text-align: right;">68</td> </tr> <tr> <td colspan="2">0-5% = 0 pts; >5-10% = 0.02 pts; >10-25% = 0.04 pts; >25-50% = 0.06 pts; >50-75% = 0.03 pt; >75-100% = 0 pts</td> </tr> <tr> <td style="text-align: right;">Score</td> <td style="text-align: right;">0.03</td> </tr> </table>		Percent Vegetation Cover (5km radius) (%)	68	0-5% = 0 pts; >5-10% = 0.02 pts; >10-25% = 0.04 pts; >25-50% = 0.06 pts; >50-75% = 0.03 pt; >75-100% = 0 pts		Score	0.03	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">% native veg. protected IBRA Assoc.</td> <td style="width: 20%; text-align: right;">23</td> </tr> <tr> <td colspan="2">0-10% = 0.03 pts; >10-20% = 0.02 pts; >20-40% = 0.01 pt; >40% = 0</td> </tr> <tr> <td style="text-align: right;">Score</td> <td style="text-align: right;">0.01</td> </tr> </table>		% native veg. protected IBRA Assoc.	23	0-10% = 0.03 pts; >10-20% = 0.02 pts; >20-40% = 0.01 pt; >40% = 0		Score	0.01						
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Score	0.03																				
% native veg. protected IBRA Assoc.	23																				
0-10% = 0.03 pts; >10-20% = 0.02 pts; >20-40% = 0.01 pt; >40% = 0																					
Score	0.01																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">Block Shape Cleared perimeter:Area (km/km2)</td> <td style="width: 20%;"></td> </tr> <tr> <td>Cleared Perimeter (m) =</td> <td style="text-align: right;">543</td> </tr> <tr> <td>Cleared Perimeter to area ratio</td> <td style="text-align: right;">31.94</td> </tr> <tr> <td colspan="2"><6 = 0.03 pts; 6 to <12 = 0.02 pts; 12 to <18 = 0.01 pt</td> </tr> <tr> <td style="text-align: right;">Score</td> <td style="text-align: right;">0</td> </tr> </table>		Block Shape Cleared perimeter:Area (km/km2)		Cleared Perimeter (m) =	543	Cleared Perimeter to area ratio	31.94	<6 = 0.03 pts; 6 to <12 = 0.02 pts; 12 to <18 = 0.01 pt		Score	0	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">Wetland or Riparian Habitat present</td> </tr> <tr> <td>Riparian zone present (Yes/No) = 0.02 pt</td> <td style="text-align: right;">No</td> </tr> <tr> <td>Swamp/wetland present (Yes/No) = 0.03 pts (Swamp/wetland may be +/- riparian zone)</td> <td style="text-align: right;">No</td> </tr> <tr> <td style="text-align: right;">Score</td> <td style="text-align: right;">0</td> </tr> </table>		Wetland or Riparian Habitat present		Riparian zone present (Yes/No) = 0.02 pt	No	Swamp/wetland present (Yes/No) = 0.03 pts (Swamp/wetland may be +/- riparian zone)	No	Score	0
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Score	0																				
<i>Note: Blocks will score a minimum Landscape Context Score of 1</i>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">LANDSCAPE CONTEXT SCORE (max 1.25)</td> <td style="width: 20%; text-align: right;">1.04</td> </tr> </table>		LANDSCAPE CONTEXT SCORE (max 1.25)	1.04																
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Vegetation Condition Scores

SITE:	A1
BCM COMMUNITY	NA 8 Coastal Plain Shrublands
VEGETATION ASSOCIATION DESCRIPTION	<i>Maireana oppositifolia</i> / <i>Atriplex vesicaria</i> Low Shrubland
SIZE OF SITE (Ha)	1.7

Benchmarked attributes (Scores determined by comparing to a Benchmark community)				Native Plant Life Forms	Cover rating
Number of Native Species (Minus herbaceous annuals for spring Surveys)	14			Trees > 15m	
Native Plant Species Diversity Score (max 30) from benchmark score weighted by a factor of 2	22.0			Trees 5 - 15 m	
				Trees < 5m	
Number of regenerating native species	0			Mallee > 5m	
Regeneration Score (max 12) from benchmark community weighted by a factor of 1.5	0			Mallee < 5m	
				Shrubs > 2m	
				Shrubs 0.5 - 2m	5
				Shrubs < 0.5	3
				Forbs	1
Weed species (Top 5 Cover x Invasiveness)	Cover (max 6)	Weed Threat Rating (max 5)	C x I	Mat Plants	1
<i>Lycium ferocissimum</i>	1	4	4	Grasses > 0.2m	1
<i>Carrichtera annua</i>	2	2	4	Grasses < 0.2m	1
<i>Limonium</i> sp.	2	2	4	Sedges > 1m	
<i>Reichardia tingitana</i>	2	2	4	Sedges < 1m	
<i>Lactuca serriola</i> forma.	1	2	2	Hummock grasses	
	Cover x Threat		18	Vines, scramblers	1
Weed Score (max 15) from benchmark community			7	Mistletoe	
				Ferns	
				Grass-tree	
				Total	13
Native Plant Life Forms (max 20) from benchmark score weighted by a factor of 2					16.0

Non-Benchmarked Attributes (Scores determined from direct field observations)		Is the community naturally treeless?	<input type="checkbox"/>
Native:exotic Understorey biomass Score (max 5)	4	Tree attributes not scored for treeless communities or communities with only emergent trees	

Vegetation Condition Score calculation

Positive Vegetation Attributes Score = Native species diversity + Regeneration + Native Plant Life Forms	
Fallen timber/debris + Hollow-bearing trees	
- If the community Score is Not Benchmarked (SNB) for regeneration this score is multiplied 1.24	
- If the community is naturally treeless this score is multiplied by 1.20	49.02
Negative Vegetation Attributes Score = (15 - Weeds) + ((10 - (Biomass score x 2))exp2/2)	10.00
VEGETATION CONDITION SCORE (Positive veg attributes x ((80 - Negative vegetation attributes) / 80))	42.89



Conservation Significance Score

Is the vegetation association considered a Threatened Ecological community or Ecosystem?	Yes/No
State (Provisional List of Threatened Ecosystems of SA) Rare community (0.1 pt)	<input type="checkbox"/>
State (Provisional List of Threatened Ecosystems of SA) Vulnerable community (0.2 pts)	<input type="checkbox"/>
State (Provisional List of Threatened Ecosystems of SA) Endangered community (0.3 pts)	<input type="checkbox"/>
Nationally (EPBC Act) Vulnerable community (0.35 pts)	<input type="checkbox"/>
Nationally (EPBC Act) Endangered or Critically Endangered community (0.4 pts)	<input type="checkbox"/>
Note: all sites will score a minimum Conservation Significance Score of 1	Threatened Community Score
1	
Number of Threatened Flora Species recorded for the site (within the site)	Number
*If a species has both a State (NP&W Act) and National (EPBC Act) rating, it's only recorded for its National rating.	
State Rare species recorded (1 pt each)	0
State Vulnerable species recorded (2.5 pt each)	0
State Endangered recorded (5 pts each)	0
Nationally Vulnerable species recorded (10 pts each)	0
Nationally Endangered or Critically endangered species recorded (20 pts each)	0
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
0	
Potential habitat for Threatened Fauna Species (number observed or previously recorded)	Number
*If a species has both a State (NP&W Act) and National (EPBC Act) rating, it's only recorded for its National rating.	
State Rare species observed or locally recorded (1 pt each)	2
State Vulnerable species observed or locally recorded (2.5 pt each)	1
State Endangered species observed or locally recorded (5 pt each)	0
Nationally Vulnerable species observed or locally recorded (10 pts each)	1
Nationally Endangered or Critically endangered species observed or locally recorded (20 pts each)	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	Threatened Fauna Score
34.5	
0.1	
CONSERVATION SIGNIFICANCE SCORE	
1.1	

Total Scores for the Site

	Score	Vegetation Condition x Landscape Context x Conservation Significance =	
LANDSCAPE CONTEXT SCORE	1.04	UNIT BIODIVERSITY SCORE	49.07
VEGETATION CONDITION SCORE	42.89	Total Biodiversity Score	
CONSERVATION SIGNIFICANCE SCORE	1.10	(Biodiversity Score x hectares)	83.42

Photo Point and Vegetation Survey Location

	Direction of the Photo
	N 355 degrees
	GPS Reference
	Datum WGS84
	Zone (52, 53 or 54) 53
	Easting (6 digits) 763991
Northing (7 digits) 6400095	
Description	

What is the purpose of Assessment?

Clearance

SEB Area

Other

Assessment for Clearance

Loss Factor	1.0	Approximate hectares required	10.95
Loadings for clearance of protected areas		Economies of Scale Factor	0.11
Reductions for rehabilitation of impact site		Mean Annual rainfall for the site (mm)	284
SEB Points required	87.59	Payment into the fund (GST Exclusive)	\$7,592.53
		Administration fee (GST Inclusive)	\$417.59

Appendix 7.3 Photolog.



Position: 53S 764074E 6400083N **Direction of photo:** W 290°



Position: 53S 763894E 6400110N **Direction of photo:** NE 60°



Position: 53S 763899E 6400157N **Direction of photo:** SW 236°



Position: 53S 763920E 6400134N **Direction of photo:** S 170°



Position: 53S 763948E 6400114N **Direction of photo:** E 110°



Position: 53S 763991E 6400095N **Direction of photo:** N 355°